



## Alternative Energy Promotion Centre

### National Rural and Renewable Energy Programme

# Annual Progress Report

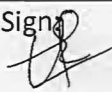
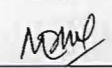


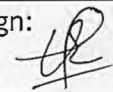
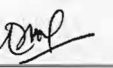



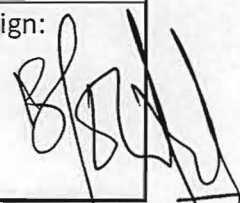
## NFY 2071/72

(15 July 2014 to 16 July 2015)

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## **List of Abbreviations and Acronyms**

ADB	Asian Development Bank
AEPC	Alternative Energy Promotion Centre
ASTHA	Association for Social Transformation and Humanitarians Assistance
AWP	Annual Work Plan
BASE	Backward Society Education
BCT	Bahun/Chhetri/Thakuri
BDS	Business Development Service
BPRC	Business Proposal review Committee
BSP	Biogas Support Programme
CCS	Clean Cooking Solution
CCU	Climate Carbon Unit
CDM	Clean Development Mechanism
CE	Community Electrification
CEDB	Clean Energy Development Bank
CER	Certified Emission Reduction
CPA	CDM Project Activity
CREF	Central Renewable Energy Fund
CSIDB	Cottage and Small Industries Development Board
DAG	Disadvantaged Groups
DCEP	District Climate and Energy Plan
DCRCC	Dhaulagiri Community Resource Development Center
DDC	District Development Committee
DECS	District Energy and Climate Change Section
DEECCS	District Energy Environment and Climate Change Section
DEEU	District Energy and Environment Unit
DFID	UK Department for International Development
DFS	Detail Feasibility Study
DN	Direct Negotiation
DoED	Department of Electricity Development
DPRC	District Project Review Committee
DS	Direct Selection
EEO	Energy and Environment Officer
EFLG	Environment Friendly Local Governance
EnDev	Energizing Development
EOI	Expression of Interest
ER	Emission Reductions
ESAP	Energy Sector Assistance Programme
ESMF	Environment Social Management Plan
FBS	Fixed Budget Selection
FEDO	Feminist Dalit Organization
FION	Federation Indigenous of Nepal
FNCCI	Federation of Nepal Chamber and Commerce Industry
FNCSI	Federation of Nepal Cottage and Small Industries
FY	Fiscal Year
GESI	Gender Equality and Social Inclusion
GIS	Geographical Information System
GIZ	German International Cooperation
GoN	Government of Nepal
GRB	Gender Responsive Budgeting
GWH	Giga Watt hour
HH	Household

IAP	Indoor Air Pollution
ICE	Information Communication Education
ICIMOD	International Centre for Integrated Mountain Development
ICS	Improved Cooking Stove
IEC	International Electro technical Commission
IGA	Income Generating Activities
IICS	Institutional Improved Cooking Stove
IMIREN	Integrated Mini-grid for Intensive Rural Electrification in Nepal
IoE/TU	Institute of Engineering/Tribhuvan University
ISPS	Institutional Solar Photo Voltaic System
ISPU	Integrated Subsidy Processing Unit
IWM	Improved Water Mill
IWMCF	Improved Water Mill Credit Fund
KfW	German Development Bank
KUTTLL	Kathmandu University Turbine Testing Laboratory
kW	Kilo Watt
KWh	Kilo Watt hour
LAPA	Local Adaptation Plan of Action
LCS	Least Cost Selection
LDO	Local Development Officer
LEDF	Local Community Development Facilitators
LFA	Logical Framework Approach
LGCDP	Local Governance and Community Development Programme
LPO	Local Partner Organization
M & E	Monitoring and Evaluation
MEDEP	Micro Enterprises Development Programme
MFI	Micro Finance Institution
MHDF	Micro Hydro Debt Fund
MHP	Micro Hydropower Plant
MICS	Metallic Improve Cooking Stove
MIRMS	Management Information Reporting and Monitoring System
MIS	Management Information System
MoE	Ministry of Energy
MoFALD	Ministry of Federal Affairs and Local Development
MoSTE	Ministry of Science Technology and Environment
MoU	Memorandum of Understanding
MQA	Monitoring and Quality Assurance
MSME	Medium and Small and Micro Enterprise
MTR	Mid-term Review
MW	Mega Watt
NACC	Nepal Alliance for Clean Cook stoves
NCB	National Competitive Bidding
NAST	Nepal Academy of Science and Technology
NAV	Navision
NCDC	Namsaling Community Development Centre
NEA	Nepal Electricity Authority
NEEP	Nepal Energy Efficiency Programme
NEFDIN	National Foundation for Development of Indigenous Nationalities
NEFEJ	Nepal Forum for Environmental Journalist
NEPQA	Nepal Photovoltaic Quality Assurance
NGO	Non Governmental Organization
NITC	National Information Technology Center
NMHDA	Nepal Micro Hydro Development Association

NORAD	Norwegian Agency for Development Cooperation
NPR	Nepalese Rupee
NRREP	National Rural and Renewable Energy Programme
NSP	National Service Providers
NTNC	National Trust for Nature Conservation
O&M	Operations and Maintenance
PEU	Productive Energy Use
PHP	Pico Hydro Power
PoA	Program of Activities
POV	Power Output Verification
PPA/PPR	Public Procurement Act/ Regulation
PPP	Public Private Partnership
PQ	Pre Qualified
PR	Public Relation
PREIP	Plant Rehabilitation and Efficiency Improvement Project
PSC	Programme Steering Committee
PV	Photo Voltaic (electricity generating technology)
PVPS	Photo Voltaic Pumping System
QCBS	Quality Cost Based Selection
RDSC	Rural Development Service Center
RE	Renewable Energy
REF	Renewable Energy Fund
REMREC	Resource Management and Rural Empowerment Centre
RERL	Renewable Energy for Rural Livelihoods
RET	Renewable Energy Technology
RETS	Renewable Energy Test Station
RFP	Request for Proposal
RRESC	Regional Renewable Energy Service Center
RSC	Regional Service Centre
RST	Random Sampling Test
SAF	Subsidy Application Form
SCDC	Sagarmatha Community Development Center
SEMAN	Solar Electricity Manufacturer's Association Nepal
SESC	Solar Energy Subcomponent
SGBP	Saheri Gharelu Biogas Plants
SHS	Solar Home System
SN	Serial Number
SNV	Netherlands Development Organization
SOD	Strategic and Organizational Development
SQ	Sealed Quotation
SREP	Scaling UP Renewable Energy Programme
SSHS	Small Solar Home System
SYIB	Start Your and Improve Your Business
T1	First trimester
T2	Second trimester
T3	Third trimester
TA	Technical Assistance
ToR	Terms of References
ToT	Training of Trainers
TRC	Technical Review Committee
UK	United Kingdom
ULAB	Used Lead-Acid Battery
UNCDF	United Nations Capital Development Fund

UNDP	United Nations Development Programme
UNESCAP	United Nations Economic and Social Commission for Asia and the Pacific
UNFCCC	United Nations Framework Convention for Climate Change
USD	United States Dollars
VDC	Village Development Committee
WECAN	Water and Energy Consultant's Association of Nepal
WUPAP	Western Uplands Poverty Alleviation Project
WWF	World Wildlife Fund
YTD	Year to Date

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# Political Map of Nepal



# 1 Executive Summary

Government of Nepal established the Alternative Energy Promotion Centre (AEPC) in 1996 with the objective of developing and promoting renewable energy technologies in Nepal. In due course of time, it has positioned itself as an established national focal agency for the rural and renewable energy sector development in Nepal. As the results of past learning of different programmes and projects, the GoN and development partners jointly agreed to support for the implementation of the National Rural and Renewable Energy Programme (NRREP), starting from 16 July 2012 and ending on 15 July 2017, which follows single programme modality with estimated total budget of 171 Million USD. The NRREP has successfully completed third year of its implementation.

This report covers an incremental progress made by NRREP in FY 2014/15 (NFY 2071/72) as well as overview of cumulative progress achieved so far. The report also highlights trimester wise breakdown of physical and financial progress. Despite various operational challenges, NRREP has achieved good progress in the reporting year that is summarized below:

- The CREF is institutionalized with establishment of financial management mechanism. The Investment Committee is formed and secretariat is equipped with professional staffs. The selection of handling bank and partner banks has been completed and the funds are being mobilized through those banks. As at the end of the FY, Partner Banks were provided Rs. 230,000,000 in total for credit financing purpose. Similarly, Handling Bank has disbursed total fund of Rs. 353,269,593.49 as subsidy to different beneficiaries under NRREP.
- Towards institutional development, preparatory works for the revision of Renewable Energy Subsidy Policy, approval of final draft of AEPC's SoD by AEPC board and revision of NRREP Administration and Financial Guideline are significant achievements of the reporting year. Preparation of Renewable Energy Policy and Nepal's 20-Years Perspective Plan has also been initiated. Capacity building of AEPC staff through various training and exposures is another set of achievement towards strengthening AEPC/NRREP as an institution. Seven staff including one Assistant Director/AEPC were recommended for such trainings. The gender ratio in terms of number of male and female staff recommended for trainings stood at 4:3.
- Communication and IT Unit (CITU), Subsidy Review Committee (SRC) and Integrated Subsidy Processing Unit (ISPU) have been established and operationalized within this reporting period following 7<sup>th</sup> PSCM decision of NRREP.
- AEPC/NRREP achieved certain shift in its approach in NRREP planning and AWP preparation process making it more inclusive with increased consultation both within NRREP and with its partners.
- Internalization of DEECs within the DDCs, which is also one of the important outputs of the program, took a major progression this year. Capacity and performance assessment was conducted for all the 75 districts and Implementation Plan as well as Capacity Development Plan was also drafted. Similarly, the NRREP has also been successful in making the smooth working of RSCs & NSPs. The operational guidelines of RSCs were amended to fit the present context, the online monitoring and planning system was also upgraded. The program has also been successful in assisting and coordinating the financial,

operation and auditing issues of the RSCs/NSPs which has reduced the fiduciary risk within the RSCs/NSPs as well as AEPC/NRREP.

- A function for the stimulation of a Local Capacity Development Service Market, called RE source, has been added in the AEPC and made functional with implementation of few projects. As an initiative towards RE source developments, AEPC has been collaborating with various agencies and implementing different RE projects in different locations such as ENDEV, Clean Start, GEF, 5P, SREP, SASEC etc.

Apart from these broad organizational achievements, the NRREP has also been successful in gaining significant results particularly in terms of streamlining the operational tools and mechanisms as well as the cross-cutting works for further accelerated implementation of NRREP. To showcase a few of them:

- Carried out third-party monitoring/verification of subsidized RE systems in integrated approaches including power output and household verification (POHV) of the micro/pico hydro projects through MQA unit of the program which is the major strategic shift of NRREP. Obtained significant improvements towards bringing effectiveness in the program implementation through adoption of result based planning, monitoring and reporting mechanisms.
- Managed to secure total revenue of USD 1.95 million attributable to the four Biogas project activities and a Micro-hydro Project activity from the issuance of 247,506 CERs. Additionally, 139,197 CERs issued from Biogas PoA in this FY with corresponding gross revenue of about 1.25 million USD. Further, the success also achieved in the area of registration of the Improved Cook Stoves PoA and inclusion of additional three CPAs into Biogas PoA.
- Recognize AEPC as a GESI responsive institution in renewable energy sector is one of the output of NRREP. In line with this, GESI unit accomplished various activities to achieve the desired output. Design and implementation of Barefoot engineering approach to develop auxiliary technician for RET catchment area, conduct GESI audit in all RSCs to identify the gap, address the issues and minimize the hurdles in accessing energy to rural poor and disadvantaged, regular technical backstopping to all RSCs in mainstreaming GESI and capacity development of the professional were the major task accomplished in this FY.

In the reporting year, the NRREP achieved average progress in the promotion of RE technologies. Key progresses in this area are highlighted below:

- In solar energy sector, completed 103,161 numbers of SSHS & SHS, 380 ISPS and 28 PVPS benefiting over 500,000 people. Other key accomplishments of the year include development of internet based online subsidy administration system which will replace the current paper-based subsidy administration system, upgrading of the existing Navision systems (NAV 2005) to NAV 2013 R2 which is ready for SAF processing from the beginning of the next fiscal year. The first phase of the online system has been completed and ready to be implemented.
- In biomass energy sector, 310,281 Mud ICS and 6,543 MICS have been installed benefiting the same number of households. Installation of 11kWe Biomass Gasifier community electrification project has been completed. A total of 1,784 people were trained including District Coordinators (DCs), Local Social Mobilizers (LSMs) and Stove Masters with ToT on ICS dissemination and Basic training on ICS technologies for business groups. Declaration of 66 IAP Free VDCs and 7 IAP Free IICS clusters are the

remarkable milestone achieved. Similarly in biogas sector, a total of 30,078 domestic biogas plants are supported by AEPC/NRREP in the reporting year benefiting same number of households of rural areas. In addition to this, 20 large biogas plants have been constructed and 22 additional large biogas plants are under construction in different regions of Nepal.

- During the reporting period altogether 25,235 rural households have been electrified through 2.4 MW electricity generated from 126 numbers of Micro/Pico Hydropower Projects. Further, 682 IWMs (*though subsidy could be released for 643 IWMs in this FY*) have been installed benefiting a total of 27,866 households. Other accomplishments include PQ of service providers, mobilization of additional financial support, completion of local mini grid, supporting for the establishment of turbine testing facility, detailed feasibilities etc.
- Business Development for Renewable Energy and Productive Energy Use is an important area of NRREP intervention. Total approved 848 MSMEs –78% new and 22% upgraded – (*of them grant could be released for 674 MSMEs in this FY*) and 1,984 IGAs have mobilized the investment of NRs. 346 million creating employment opportunities for 2,788 people. These MSMEs have not only created economic opportunities in the RE catchment areas but also contributed for the sustainability of micro hydro projects. IGA development is another success of the year to highlight on. Total 5,166 IGA plans were prepared and assessed, out of which 3,217 plans were approved for grant support. However, grant could only be released to 1,984 IGA Households in the reporting year.

Of the total subsidy budget allocated for the reporting year, only 49.4% could be disbursed to the beneficiaries. By the end of the 3<sup>rd</sup> year, total expenditure in the subsidy is NRs 5,398,057 ('000) out of the total subsidy fund of NRs 9,923,394 ('000). This means 54.4% of subsidy fund has been released by the end of the reporting year.

<sup>1</sup>The cumulative financial progress of NRREP by the end of the third year is 40%. Total planned budget of NRREP in the reporting year was NRS. 5,294,994 ('000) and the expenses is NRs. 2,847,123 ('000), which means 54% financial progress. In the third trimester of the NFY 2071/72, total NRREP expenses was NRs. 2,133,324 ('000) against the planned budget NRs. 809,237 ('000), i.e., 38% financial progress against the third trimester plan. In case of subsidy, total annual planned budget of the year was NRs. 3,663,150 ('000) and the total disbursement was NRs. 1,810,078 ('000), i.e., 49.4% of the subsidy budget disbursement. However, actual progress on subsidy is higher as part of the approved subsidy amount has been retained as per the disbursement modality. Moreover, subsidy of 109 ISPS paid against bank guarantee and that of 122 ISPS paid from the GoN budget is not included in the above mentioned disbursed amount.

AEPC/NRREP experienced some major set back in its operation arising from the issues of non compliances in ISPS installations as identified by Compliance Unit which eventually compelled the Lead Development Partner to freeze its fund until the settlement of ISPS issues. This circumstance triggered the abrupt stoppage of the NRREP operation and all kinds of activities with its consequence in the physical and financial

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<sup>1</sup> *The financial figures are under verification as there are possibilities that double booking of payables may have occurred due to delay in formal handover and takeover of REF transactions after the handling bank started its operations from 1 April 2015. Once the REF Audit is complete, the discrepancies (if any) are expected to be resolved. The transition of REF into CREF can be formally concluded upon completion of the REF audit which has already begun.*

progress. However, AEPC/NRREP considered the issues seriously and put its full weight to resolve the matter.

Because of the Gorkha Earthquake that occurred on 25<sup>th</sup> April 2015 and its aftershocks felt for months including a major one on 12<sup>th</sup> May 2015, implementation of NRREP activities were greatly disturbed leading to the reduced progress of the program.

Some of the planned activities that could not be completed within the set time frame have been shifted to the next fiscal year. The NRREP is experiencing few emerging challenges as well to overcome. Please refer to the section 6 of this report for details on risks and challenges.

The progress trends of the reporting year show that we have overshot a few targets but we are behind in most of the target areas. The NRREP Mid Term Review also highlighted the need to revise the target realistically considering the programme goal/targets, available funds, existing policies/guidelines, and its delivery mechanisms and had asked for the revised targets and fund mobilization strategy to be presented at the 7<sup>th</sup> PSC Meeting. In response to those recommendations, AEPC has started a preparatory works to make a more organic assessment of the targets with respect to available resources so that the new targets could be appropriately set in to planning process for subsequent NRREP AWP. The NRREP will also go into the possible solutions to overcome emerging challenges and problems in due course of time. We expect frequent review of the program activities by the AEPC board, program coordination committee and program steering committee to recommend additional measures/suggestions for the improvement.

## 2 NRREP Introduction

### 2.1 Overview of NRREP

Start date	16 July 2012
Completion date	15 July 2017
Budget	USD 171 Million

### 2.2 Key Program Targets:

• Mini and Micro Hydro power	25,000kW
• Households benefiting from the community electrifications	150, 000 HH
• Improved Water mill	4,000 Nos.
• Solar PV Home Systems	600,000 Nos.
• Institutional Solar PV Systems and Solar PV Pumping Systems	1,550 Nos.
• Solar Dries/Cookers	7,500 Nos.
• Improved Cooking Stoves	475,000 Nos.
• Household Biogas plants	130,000 Nos.
• New MSMEs establishment	2,800 Nos. <sup>2</sup>
• Employment increased by MSMEs and IGAs	19,000 Nos.
• Existing MSMEs upgraded	1,300 Nos. <sup>3</sup>
• Income Generating Activities	15,300 HHs

### 2.3 Programme Components/Subcomponent/Units:

#### 1. Central Renewable Energy Fund Component

#### 2. Technical Support Component

- Biogas Subcomponent
- Biomass Energy Subcomponent
- Solar Energy Subcomponent
- Community Electrification Subcomponent
- Outreach and Local Governance Subcomponent
- Institutional Support Subcomponent
- Monitoring and Quality Assurance Unit
- Climate Change and Carbon Unit
- Gender Equality and Social Inclusion Unit
- Communication and IT Unit

#### 3. Business Development for Renewable Energy and Productive Energy Use component

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<sup>2</sup> The target of new MSMEs has been changed to 2,800 from 1,300 by PSC with the recommendation from MTR.

<sup>3</sup> The target of "Existing MSMEs Upgraded" has been changed to 1,300 from 2,800 by PSC as per the recommendation from MTR.

## 2.4 Development Partners

Denmark, Norway, Germany, KfW, UNDP, UNCDF, UNESCAP, ADB, World Bank, SNV, DFID/UK etc.

## 2.5 Other Features

- NRREP follows a single program modality. Efforts have been continuously given to address the issues of NRREP alignment in the areas of support being received from various DPs. It will not be considered a consolidation or continuation of previous projects/programs. It however takes up the best practices of the past renewable and rural energy programme/projects. Its support package consists of financial resources, technical assistance, capacity building, coordination and collaboration for harmonization and synergy.
- The NRREP is firmly aligned to the existing and evolving GoN framework and structure. The programme follows the GoN subsidy policy and subsidy delivery mechanisms. The M&E systems are aligned towards the GoN monitoring requirements. NRREP follows GoN's Public Procurement Act/Regulation for procurement of goods and services.
- The NRREP adopts a strong focus on poverty reduction and expedite GESI through mainstreaming process into the programme by enhancing capacity building to increase access and their ability to adopt/use RE technologies and/or services.
- The NRREP envisions positive effects on environment and climate change and changes the life of rural women and men in Nepal with due focus to increase and maximize carbon market revenue.
- Democratization and good governance are addressed in different ways into the programme. It works in coordination/collaboration with DDC/DEECCSs/RSCs, local organizations and private companies following the principles of PPP.
- It emphasizes decentralized energy systems, integrated programmes, environmental sustainability, partnership and coordination, and research and technology transfer.
- The overall management of NRREP is carried out by the Programme Steering Committee chaired by the Secretary of Ministry of Science, Technology and Environment. With AEPC being the executing agency, the NRREP Programme Director is the Executive Director of AEPC.
- Each component/sub-component/unit is managed by a team led by a Programme Manager and the team is supported by National Advisor, and other programme staff. In addition, the program is supported by an International Senior Technical Advisor and an International Senior Compliance Advisor.
- The programme is equipped with a Compliance Unit to provide oversight and support to financial and procurement management as well as for quality assurance and support to Value for Money audits across NRREP.

## 3 Progress on NRREP Key Targets

### 3.1 Physical Targets and Progress:

#### 3.1.1 Annual progress status

**Table 1- Annual Physical Achievements against Targets (based on subsidy disbursement)**

SN	Program Target Areas	Unit	Annual Target	Annual Achievement				
				T1	T2	T3	Total	%
1.	Mini/Micro/Pico Hydro Power	kW	4,000	484	980.5	936.1	2,400.6	60.0%
		HH	20,000	4731	9250	11,254	25,235	>100%
2.	Improved Water mills	Nos.	750	517	126	0	643	85.7%
3.	Solar PV Home Systems and Small Solar PV Home Systems	Nos.	125,000	11,353	57,998	33,810	103,161	82.5%
4.	Institutional Solar PV Systems	Nos.	500	113	145*	122**	380	76%
5.	Solar Drinking Water Pumping System	Nos.	100	13	13	2	28	28.0%
6.	Solar Dryer	Nos.	900	0	0	0	0	0
7.	Solar Cooker	Nos.	100	0	0	0	0	0
8.	Mud ICS #	Nos.	250,000	54,989	88,552	166,740	310,281	>100%
9.	Metallic ICS	Nos.	12,000	2050	2814	1,679	6,543	54.5%
10.	Domestic Biogas Plants	Nos.	50,000	16,579	9,087	4,412	30,078	60.2%
11.	Institutional/commu nity Biogas Plants	Nos.	100	0	5	15	20	20%
12.	Productive energy use (New and upgraded MSMEs)	Nos	1000	78	303	293	674	67.4%
13.	Employment increased by MSMEs	Nos	2200	632	1245	911	2788	>100%
14.	IGA prepared and assessed #	HH	5000	616	1476	3174	5166	>100%



SN	Program Target Areas	Unit	Annual Target	Annual Achievement				
				T1	T2	T3	Total	%
15	IGA Plans supported#	HH	5000	616	1368	0	1984	39.7%

**Notes:**

The above figures correspond to the progress as per the subsidy released in FY 2014-15.

\* Out of 145 ISPS in T2, subsidy for 109 ISPS was paid against bank guarantee.

\*\* 122 ISPS in T3 were paid from GoN budget.

# Non-subsidy items

### 3.1.2 Progress Shortfall

Progress shortfall of the key target areas analysed based on annual target and progress corresponding to the released subsidy is summarized in the table below with reasons.

Sn	Target areas	Progress shortfall	Remarks/reasons
1.	Mini/Micro/Pico Hydro Power	40%	<ul style="list-style-type: none"> <li>Power tested in 8 MHPs, 435 kW in Power house but house connection is less than 78% so, formal Testing &amp; Commissioning could not be carried out.</li> <li>Due to devastating earthquake some under construction MHPs are badly damaged especially in 14 earthquake districts. So, Testing and Commissioning of the projects could not be completed. It is estimated that a total of 249 MHPs has been damaged totaling to 5,651 kW affecting 56,372 households.</li> <li>It was planned to transport electro-mechanical equipments of 6 MHPs in Mugu, Kalikot, Humla and Dolpa districts by helicopter. However, due to unavailability of helicopters transportation could not be done as all helicopters were engaged in relief activities for earthquake victims.</li> <li>In few projects, the installation team returned home due to earthquake.</li> </ul>
2.	Improved Water mills	14.3%	<ul style="list-style-type: none"> <li>Due to earthquake so many demanded IWMs could not be completed in stipulated time.</li> <li>No. of IWMs recommended for subsidy is 682 accounting for 91% progress. Whereas, as the subsidy was released for 643 IWMs, the progress (based on released subsidy) appeared to be lower.</li> </ul>
3.	Solar PV Home Systems and Small Solar PV Home Systems	17.5%	<ul style="list-style-type: none"> <li>SAF processing was slowed down by earthquake for approximately 1.5 months. In addition, transfer of SAF handling unit from SESC to ISPU also slowed down the process.</li> </ul>
4.	Institutional Solar PV Systems	24%	<ul style="list-style-type: none"> <li>Various issues were raised by Compliance Unit with the existing implementation modality. Delay in approval of new implementation modality slowed/stopped the progress of the</li> </ul>

Sn	Target areas	Progress shortfall	Remarks/reasons
			program.
5.	Solar Drinking Water Pumping System	72%	<ul style="list-style-type: none"> <li>Water pumping systems for irrigation purposes could not be implemented because of delay in approval of the subsidy policy which encompasses subsidy provision for solar water pumping for irrigation purposes.</li> <li>Because of earthquake, the approval process at AEPC and RSC was slowed which hampered the timely completion of the projects. In the third trimester, the RSC staff could not be mobilized because of the budget limitation situation in NRREP which also hindered the implementation of projects.</li> </ul>
6.	Solar Dryer	100%	<ul style="list-style-type: none"> <li>17 dryers have been installed. The subsidy is yet to be released for all of them. The SAFs are pending at ISPU. And, this is not reflected in the progress.</li> <li>As per subsidy policy and delivery mechanism, it is required to promote these systems in rural areas only; whereas the demands for solar thermal systems are high in urban and semi urban areas. Because of this, the number of system disseminated is found to be low. Also private sector has been raising concern regarding the provisions in the subsidy delivery mechanism to be very lengthy and complicated which is not much motivating for companies. SESC has already started the process to implement these suggestions in coming subsidy policy and delivery mechanism.</li> </ul>
7.	Solar Cooker	100%	<ul style="list-style-type: none"> <li>9 solar cookers have been installed. The subsidy is yet to be released for all of them. The SAFs are pending at ISPU. And, this is not reflected in the progress.</li> <li>Limited PQ companies and their limited branch/dealer/agents at rural areas</li> <li>Low social acceptability as it doesn't match with Nepalese food habits and cooking style</li> <li>Very low demand of solar cookers in rural area. Subsidy policy doesn't support the technology in urban areas where major market demand exists.</li> <li>The main demand for solar cookers is in institutions; whereas the current level of subsidy is very low compared to the system cost of institutional (bigger sized) solar cookers.</li> </ul>
8.	Metallic ICS	45.5%	<ul style="list-style-type: none"> <li>Most areas where there is high demand for MICS were affected by the devastating earthquake hampering the production, transportations, installation and even reporting of installed MICS. Most of the manufacturing companies' capacity has been shrunk and damaged due to earthquake</li> </ul>

Sn	Target areas	Progress shortfall	Remarks/reasons
			<ul style="list-style-type: none"> <li>6,746 MICs have recommended for subsidy; whereas the subsidy could be released for 6,543 MICs which has been counted towards the progress.</li> <li>SAFs for 203 additional MICs have already been received at AEPC after MICs installation in user households and these have been lying with ISPU for appraisal and subsidy payment</li> <li>If the subsidy for all of the installed MICs could have been processed, total physical progress would be 6,746 (i.e., percentage progress of 56.22%).</li> </ul>
9.	Domestic Biogas Plants	39.8%	<ul style="list-style-type: none"> <li>Actual no. of domestic biogas plants recommended for subsidy is 38,729 whereas subsidy could be released for only 30,078 plants; remaining 8,651 domestic biogas plants are lying with ISPU for appraisal and subsidy payment.</li> <li>Moreover, SAFs of additional 5,046 biogas plants installed in user households have been received and are being processed.</li> <li>If the subsidy for all of the installed biogas plants could have been processed, total physical progress would be 43,775 (i.e., percentage progress of 87.6%). Subsidy processing for the remaining plants was in progress but could not be completed by the end of the reporting year; and is expected to be completed during early months of the next fiscal year.</li> </ul>
10.	Institutional/ community Biogas Plants	80%	<ul style="list-style-type: none"> <li>The negotiations took longer time between GoN and World Bank to sign the SREP agreement. Therefore, the implementation could be started late.</li> <li>Limited number of companies working for large biogas plants.</li> <li>Low level of exposure to large plants.</li> </ul>
11.	Productive energy use (New and upgraded MSMEs)	32.6%	<ul style="list-style-type: none"> <li>848 MSMEs have been approved from BRPC or DPRC accounting the progress to be 84.8%. However, as the subsidy could be released for 674 MSMEs, the progress (based on the released subsidy) appeared to be low</li> <li>Due to the earthquake, field activities could not be completed.</li> <li>Due to freezing of the programme budget, the RSCs were not able to complete the planned activities.</li> </ul>
12.	IGA plans	60.3%	<ul style="list-style-type: none"> <li>RSCs have prepared 5166 IGA plans (out of the target of 5000) and were ready for approval and release of the grant. However the grant could not be released due to freezing of the budget.</li> </ul>

### 3.1.3 Cumulative progress status:

**Table 2: Cumulative Physical Progress of the program:**

SN	Physical Targets	Unit	NRREP Target	Cumulative Achievement				Progress Level
				1 <sup>st</sup> and 2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total	%	
1.	Mini/Micro/Pico Hydro Power	kW	25,000	6,200.6	2,400.6	8,601.2	34.4%	Medium
		HHs	150,000	62,983	25,235	88,218	58.8%	Medium
2.	Improved Water Mill	No.	4,000	1,618	643	2,262	56.5%	Medium
3.	Solar PV Home	No.	600,000	186,362	103,161	289,523	48.3%	Medium
4.	Small Solar PV Home Systems	No.						
5.	Institutional Solar PV Systems	No.	1,550	147	380	605	39%	Medium
6.	Solar Drinking Water Pumping	No.		50	28			
7.	Solar Dryer	Nos.	7,500	212	0	212	2.8%	Low
8.	Solar Cooker	Nos.		0	0	0		
9.	Mud ICS	No	440,000	264,156	310,281	574,437	>100%	Very High
10.	Metallic ICS	Nos.	35,000	8,866	6,543	15,409	44.0%	Medium
10.	Domestic Biogas Plants	No.	130,000	33,996*	30,078	64,074*	49.3%	Medium
11	Institutional/community/Commercial Biogas Plants and Waste to Energy Projects	No.	1200	0	20	20	1.7%	Low
12.	Existing MSMEs upgraded	No.	1,300	97	158	255	19.6%	Low
13	New MSME established	No.	2,800	268	516	784	28%	Low
14.	Employment increased by MSMEs	Nos.	19,000	835	2,788	3,623	19.1%	Low
15.	Income Generating Activities	HHs	15,300	1,013	1,982	2,995	19.6%	Low

\* In addition to this, subsidies for 2,500 domestic biogas plants have been paid (reimbursed) by WWF.

**Notes:**

1. Progress levels (Very High, High, Medium and Low) are just an indicative self assessment based on elapsed program duration and program targets. [Assumptions: Very High = greater than 100%, High = greater than 66.6% but less than 100%, Medium= 33.3% to 66.6%, Low =less than 33.3%]
2. Actual progress is higher than that shown in the above table. This is because the output corresponding to released subsidy is counted towards progress. However, there are some approved RE systems/MSMEs yet to be released the subsidy as indicated in Section 3.1.2.
3. Out of the cumulative achievement of 8,601.2 kW of mini/micro/pico hydro project commissioned, 4,490.37 kW is from projects with subsidy from ESAP.
4. Cumulative achievement for mud ICS in 3 years of programme period (574,437) is higher than the programme target for 5 years (440,000) by 134,437, i.e., 130.6% of the original target.

## 3.2 Progress on Subsidy Plan

**Table 3- Progress on annual subsidy plan- NFY-71/72**

(Amount in '000 NPR)

SN	Technologies	Annual Budget	Progress in NRs.'000				
			T1	T2	T3	Total	%
1	Mini/Micro Hydro Power	700,000	61,498	127,854	66,209	255,561	36.5%
2	Improved Water Mill	18,900	8,654	2,034	0	10,688	56.6%
3	Solar PV Home Systems and Small Solar PV Home Systems	675,000	56,920	307,773	141,227	505,920	75%
4	Institutional Solar PV Systems	500,000	95,301	28,982	0	124,283**	24.9%
5	Solar Drinking Water Pumping System	160,000	12,197	11,977	2,069	26,243	16.4%
6	Solar Dryer	33,750	0	0	0	0	0
7	Solar Cooker	4,000	0	0	0	0	0
8	Metallic ICS	69,000	8,249	11,382	6,982	26,613	38.6%
9	Domestic Biogas Plants	1,360,000	446,415	253,855	113,415	813,685	59.8%
10	Institutional/community Biogas/Commercial Plants	22,500	0	1,346	3,105	4,451	19.8%
11	Productive energy use (New and upgraded MSMEs)	120,000	3,128	19,243	20,263	42,634	35.5%
<b>Total</b>		<b>3,663,150</b>	<b>692,362</b>	<b>764,446</b>	<b>353,270</b>	<b>1,810,078*</b>	<b>49.4%</b>

\*This is the actual subsidy paid out amount

\*\* This figure doesnot include the advance subsidy paid for 109 ISPS (paid against bank guarantee) and 122 ISPS (paid from GoN budget)

### 3.3 Cumulative progress on subsidy

**Table 4: Analysis of Cumulative Progress on subsidy:**

*(Amount in '000 NPR)*

SN	Program Target Areas	Total Budget for 1 <sup>st</sup> to 3 <sup>rd</sup> Year	Cumulative Achievement			
			1 <sup>st</sup> and 2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total	%
1.	Mini/Micro Hydro Power	1,840,000	1,000,698	255,561	1,256,259	68.3
2.	Improved Water Mill	61,900	23,295	10,688	33,983	54.9
3.	Solar PV Home Systems and Small Solar PV Home Systems	2,165,000	1,293,236	505,920	1,799,156	83.1
4.	Institutional Solar PV Systems	780,000	128,959	124,283**	253,242	32.5
5.	Solar Drinking Water Pumping System	210,000	65,343	26,243	91,586	43.6
6.	Solar Dryer	60,150	1,749	0	1,749	2.9
7.	Solar Cooker	6,000	0	0	0	0.0
8.	Metallic ICS	133,250	35,819	26,613	62,432	46.9
9.	Domestic Biogas Plants	2,436,000	1,012,617	813,685	1,826,302	75.0
10.	Institutional/community Biogas/Commercial Plants	64,480	0	4,451	4,451	6.9
11.	Productive energy use (New and upgraded MSMEs)	189,000	26,263	42,634	68,897	36.5
	<b>Total</b>	<b>7,945,780</b>	<b>3,587,979</b>	<b>1,810,078</b>	<b>5,398,057</b>	<b>67.9%</b>

\*\* This figure doesnot include the subsidy paid for 109 ISPS (paid against bank guarantee) and 122 ISPS (paid from GoN budget)

**Table 5- Annual Physical Progress Vs Financial Progress (based on subsidy disbursement)**

SN	Program Target Areas	Physical Achievement		Financial Achievement	
		Annual Target	Annual Progress	Annual Budget ('000 NRs)	Annual Progress
1.	Mini/Micro/Pico Hydro Power	4,000 kW	60.0%	700,000	*36.5%
2.	Improved Water mills	750 Nos.	85.7%	18,900	**56.6%
3.	Solar PV Home Systems and Small Solar PV Home Systems	125,000 Nos.	82.5%	675,000	75%
4.	Institutional Solar PV Systems	500 Nos.	76%	500,000	***24.9%

SN	Program Target Areas	Physical Achievement		Financial Achievement	
		Annual Target	Annual Progress	Annual Budget ('000 NRs)	Annual Progress
5.	Solar Drinking Water Pumping System	100 Nos.	28.0%	160,000	****16.4%
6.	Solar Dryer	900 Nos.	0	33,750	0
7.	Solar Cooker	100 Nos.	0	4,000	0
8.	Metallic ICS	12,000 Nos.	54.5%	69,000	# 38.6%
9.	Domestic Biogas Plants	50,000 Nos.	60.2%	1,360,000	59.8%
10.	Institutional/community Biogas Plants	100 Nos.	20%	22,500	19.8%
11.	Productive energy use (New and upgraded MSMEs)	1000 Nos.	67.4%	120,000	## 35.5%

**Notes:**

The above figures correspond to the progress as per the subsidy released in FY 2014-15.

\* For the case of micro/pico hydro, total approved subsidy is NRs 456,315,984.07; which is 65.2% of the planned budget. Again, the subsidy disbursed amount is NRs 255,561,463.19; which is 36.5% of the planned budget and 56% of the approved subsidy amount.

\*\* The subsidy amount for IWM varies from NRs 16,000 to NRs 40,000 depending upon remoteness of installation site (VDC category) and technology type (long-shaft and short-shaft). During the planning phase, exact site for installation (VDC) and type of technology of the IWM demands was not known and the budget was allocated on average rate. Moreover, 10% of the subsidy amount has been retained as after sales service guarantee.

\*\*\* 109 ISPS (accounting for 21.8% progress) were paid against bank guarantee, and 122 ISPS (accounting for 24.4% progress) were paid from GoN budget. The corresponding amount for these 231 ISPS (accounting for 46.2% progress) is not reflected in the Financial Progress.

\*\*\*\* For the case of solar water pumping systems, the financial progress corresponds to the 60% subsidy (1<sup>st</sup> installment) disbursed to 27 systems and 90% subsidy (1<sup>st</sup> and 2<sup>nd</sup> installment) disbursed to the remaining 1 system.

# The allocated budget for metallic ICS also includes NRs 11,000 ('000) for Gasifier. Annual expenditure in Gasifier is only NRs 1,540 ('000). Moreover, for the case of metallic ICS, 10% of the approved subsidy has been retained as after sales service guarantee. Therefore, financial progress figure is much lower than the physical progress.

## The average subsidy estimated per MSME was higher than the actual subsidy approved. Moreover, 10% of the subsidy amount is on hold with CREF.

### 3.4 Progress against Budget Plan

**Table 6- Progress on annual budget plan NFY-71/72**

(Amount in '000 NPR)

SN	Budget heads	Annual Budget	Annual expenses	Budget Balance	Fund Utilization (%)
1	Central Renewable Energy fund Component	4,027,946	2,088,334*	1,939,612	52%
2	Technical Support Component	955,692	554,559	401,133	58%
3	Business Dev. for RE and Productive Energy use	158,870	104,279	54,591	66%
4	NRREP Management	144,686	92,340	52,346	64%
5	Studies, Audit, Review	7,800	7,612	188	98%
	<b>Total</b>	<b>5,294,994</b>	<b>2,847,123</b>	<b>2,447,871</b>	<b>54%</b>

\* This is the total subsidy amount approved and booked for the reporting year.

Note: Please refer to Annex 7.12 for output wise and 7.13 for donor wise breakdowns of annual budget and expenditure

**Table 7- Progress on Trimester-3 budget plan NFY-71/72**

(Amount in '000 NPR)

SN	Budget heads	Trimester- 3 Plan	Expenses	Fund Utilization (%)
1	Central Renewable Energy fund Component	1,671,648.00	490,162.53	29%
2	Technical Support Component	337,911.00	251,583.61	74%
3	Business Dev. for RE and Productive Energy use	71,370.00	31,658.23	44%
4	NRREP Management	49,795.00	32,964.48	66%
5	Studies, Audit, Review	2,600.00	2,868.58	110%
	<b>Total</b>	<b>2,133,324</b>	<b>809,237</b>	<b>38%</b>



**Table 8: Analysis of Cumulative Progress on program budget:**

(Amount in '000 NPR)

S N	Budget Heads	NRREP Budget	Achievements			Cumulative till date	Fund Utilization (%)
			1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year		
1	Central Renewable Energy fund Component	9,923,394	431,306	1,939,922	2,088,334 *	4,459,562	45%
2	Technical Support Component	3,506,299	164,184	426,950	554,559	1,145,693	33%
3	Business Dev. for RE and Productive Energy use	737,016	9,814	47,685	104,279	161,777	22%
4	NRREP Management	447,474	67,291	96,403	92,340	256,034	57%
5	Studies, Audit, Review	298,316	-	3,603	7,612	11,215	4%
<b>Total</b>		<b>14,912,499</b>	<b>672,594</b>	<b>2,514,564</b>	<b>2,847,123</b>	<b>6,034,282</b>	<b>40%</b>

\*This is the total subsidy amount approved and booked for the reporting year.

### 3.5 Progress on GON-DPs cost sharing plan

**Table 9- Progress on cost sharing plan for FY 2014/15**

(Amount in '000 NPR)

GoN & DPs	Committed Annual Budget	Fund Released	Expenses
DPs Total	3,564,161.00	1,172,629.30 • 32.90 % of committed budget	1,659,401.06 • 141.5% of released fund
GoN Total	<b>1,730,832</b>	<b>1,612,482</b> • 93.16% of committed budget	<b>1,187,721.899</b> • 73.66 of released fund
Sub Total	5,294,993.00	2,785,111.30	2,847,122.96
Other Income	-	20,337.13	-
<b>Grand Total</b>	<b>5,294,993.00</b>	<b>2,805,448.43</b>	<b>2,847,122.96</b>

### 3.6 Progress on Credit Financing

#### Micro/Pico hydor power projects:

Under Micro Hydro Debt Fund and other programs of AEPC (ESAP II, REDP, RERL), a total 26 micro/pico hydro projects have been financed by different banks. The total loan flow from these banks is NRs 63 million with several projects under process of being approved a loan. Besides these loans, CREF has provided Rs. 230 Million as credit fund to the seven partner banks.

The lists of projects financed are given in **Annex 7.3.2**.

#### Biogas Credit Fund:

Biogas Credit Fund was established in the year 2000 under AEPC with grant support of about NPR 234 million received from KfW and Technical Assistance from SNV/Nepal to the GoN. The credit fund is provided to the MFIs which further lend to the biogas consumers. Total involved MFIs are 477. By this reporting year, around 27,000 people got befitted from the credit fund since its inception covering 49 districts.

The following table highlights the overall situation of Biogas Credit Fund up to Ashadh 2072 (16<sup>th</sup> July 2015):

Particulars	Amount (Million NPR)
Fund Received From KfW	234.34
Total Loan Investment	356.84
Total Loan Repayment	336.90
Total Loan Outstanding	19.94

#### Note:

*The total on bio gas credit fund from KfW is lower than the total loan invested because the fund itself has been reinvested in the sector several times over a period of ten years. The fund has also received interest on deposit placed by AEPC and this again has been reutilized for providing loan. Therefore, the cumulative loan mobilization is higher than the original amount itself.*

*Since it has been agreed to shift the bio gas credit fund itself to CREF, new loans have not been approved and disbursed from bio gas credit fund since last two years. Approval of transfer fund from AEPC to CREF needs to be provided by MoF and KfW. Once this transfer mechanism is approved, the fund will be transferred to CREF. Moreover, all the financial institutions which borrowed from the fund itself have been repaying on the basis of their repayment plan. Therefore, the outstanding is much lower than the fund itself.*

### 3.7 Carbon Reduction Accounts

**Table 10- Carbon Reduction Accounts**

SN	RETs	Unit	Estimate d ER factor (tCO <sub>2</sub> e/unit/year)	Achievement of the Year-3		Cumulative Achievement (up to Year-3)	
				Installations	Equivalent ER (tCO <sub>2</sub> e/year)	Installations	Equivalent ER (tCO <sub>2</sub> e/year)
1	Mini/Micro Hydro Power	kW	2.30	2,400.60	5,521	8,601.20	19,783
2	Improved Water Mill	Nos.	3.65	643	2,347	2,262	8,256
3	Solar PV Home Systems and Small Solar PV Home Systems	Nos.	0.10	103,161	10,316	289,523	28,952
4	Institutional Solar PV systems	Nos	1.68	380	638	527	885
5	Solar drinking water pumping systems	Nos	0.88	28	25	78	69
6	Solar Dryer	Nos	6.26	0	0	212	1,327
7	Mud ICS	Nos.	1.54	310,281	476,281	574,437	881,761
8	Metallic ICS	Nos.	1.54	6,543	10,044	15,409	23,653
9	Domestic Biogas Plants	Nos.	3.00	30,078	90,234	66,574	199,722
10	Institutional/community/Commercial Biogas Plants*	Nos	5.08	20	102	20	102
<b>Total</b>					<b>595,508</b>		<b>1,164,510</b>

**Notes:**

1. The values indicated, by any means, don't refer to the emission reduction (ER) that is tradable but is the synopsis of the potential emission reductions that are achieved due to the technology installation.
2. The above indicated ER is calculated for the physical achievement corresponding to the subsidy payment.

## 4 Major Achievements and Accomplishments

### 4.1 Program Achievements on Immediate Objectives:

#### Immediate objective-1

*To institute the CREF as the core financial institution responsible for the effective delivery of subsidies and credit support to the renewable energy sector.*

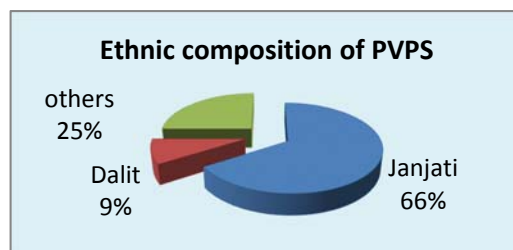
The CREF is institutionalized in the reporting year with establishment of financial management mechanism. The Investment Committee is formed and secretariat is equipped with professional staffs towards operationalization of the CREF. Further, the selection of handling bank and partner banks has been completed and the banks are performing their respective duties as per the ToR.

#### Immediate objective-2

*To accelerate renewable energy service delivery with better quality, comprising various technologies, to remote rural households, enterprises and communities, to benefit men and women from all social groups, leading to more equitable economic growth.*

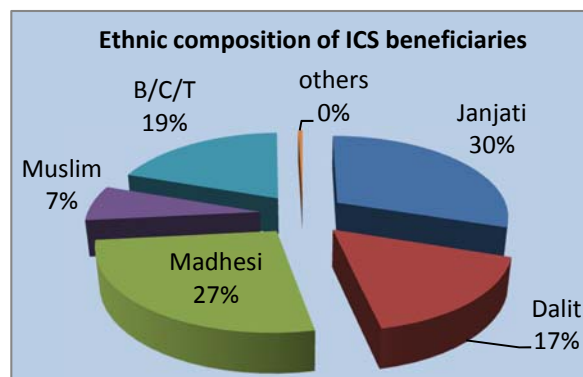
#### Solar Energy:

In the reporting year, there is significant achievement in delivering Solar Home System and small solar home systems to promote clean lighting in the rural areas. Subsidy was released for a total of 103,161 installed SHS/SSHS indicating that the same numbers of households (accommodating around 500,000 people) are benefited from solar lighting. Similarly, a total of 380 ISPS and 28 PV pumping systems and 26 solar dryers/cookers (subsidy is yet to be released) have been installed. Around 51% of the beneficiaries are male and 49% are female. In solar PVPS, 9% of Dalit and 66% Ethnic, 25% others benefited from the program. In addition to this physical target achievement, various awareness programme and interaction workshops have been carried out to promote use of solar energy technologies.



#### Solid Biomass Energy:

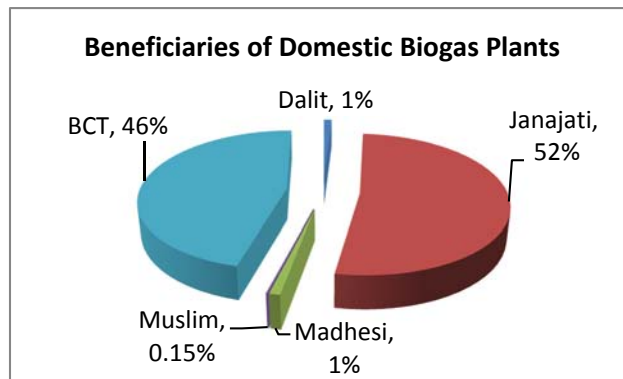
In biomass energy sector, significant progress has been made with the installation of 310,281 Mud Improved Cooking Stoves. A total of 6,746 metallic ICS has been installed; of which subsidy was released for 6,543 MICS. In addition to this, a total of 1,784 (female 922 & male 862) people were trained including Stove Master's, District coordinators (DCs) and Local social mobilizers (LSMs) with ToT on ICS dissemination and Basic training on ICS technologies for business group. Out of total 310,281 ICS/IICS installed, 281,469 numbers of ICS/IICS are the achievements made by BESC directly



implemented districts only. Total number of beneficiaries of these stoves is 1,550,683 (female 49.5% & male 50.5%). Declaration of 66 IAP Free VDCs and 7 IAP Free IICS clusters are the remarkable milestone achieved.

**Biogas:**

There has been a very good progress in installation of domestic biogas plants in the reported year. Though subsidy could be released only for 30,078 plants; whereas actual installations are 38,729 plants (*subsidy is yet to be released for the remaining plants*). In addition to this, SAFs of 5,056 completed plants are under processing. Out of the plants installed this year, 48% are owned by male and remaining 52% are owned by female. From ethnicity point of view, 1 % of the plants are owned by Dalit, 52% by Janajati, 1 % by Madheshi, and 46% by others (BCT,SW,DAG). Please note that the LFA of program document targeted to achieve 30% HHs to be disadvantaged people. Plant Rehabilitation and Efficiency Improvement Project (PREIP) successfully implemented in 9 districts under the support from KfW and completed this year.



**Community Electrification:**

In this reporting year, a total of 2.4 MW of electricity has been generated benefiting 25,235 rural households. The benefited population is 110,937; of which 51.50% are female. Average plant size of installed MHPs is found to be 35 kW that can be considered as significant success of past efforts. Similarly, 682 Improved Water Mills (*subsidy was released for 643 IWMs*) have been installed benefiting a total of 135,986 people from 27,866 households. Please note that the LFA of program document targeted to achieve 50% women and 30% DAG during the program period.

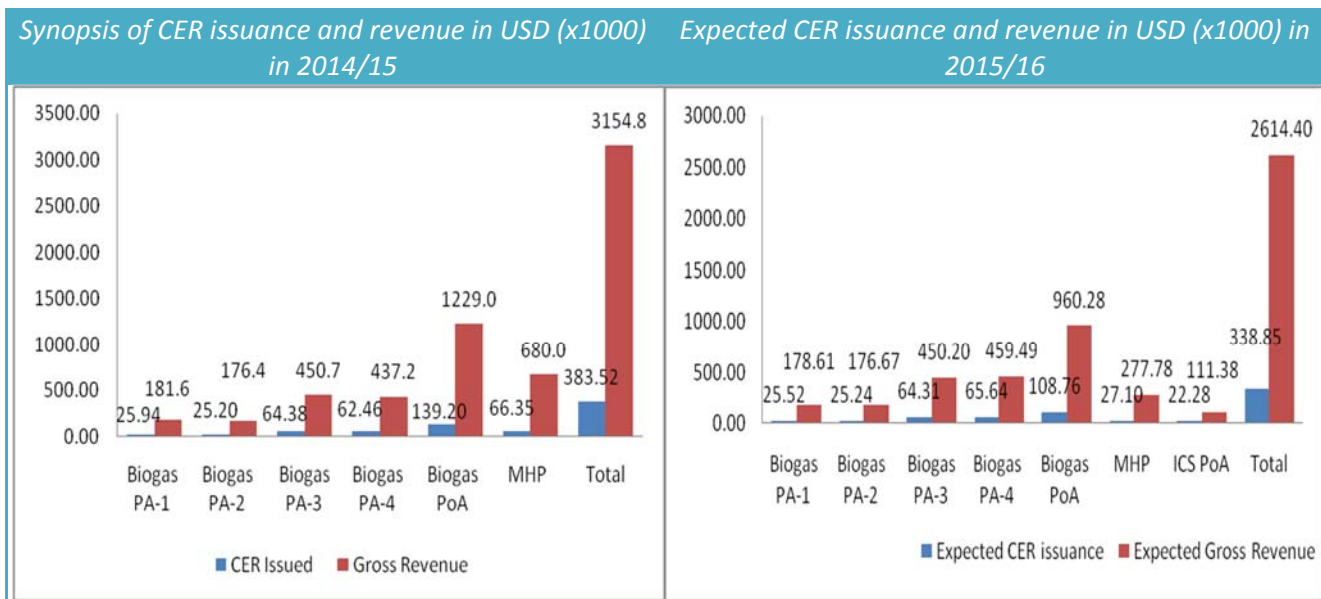
**Institutional Support:**

With the aim to accelerate service delivery to the targeted people, AEPC/NRREP put utmost effort to improve sector policy and preparation of some guidelines in the reporting year. Revision of the existing Renewable Energy Subsidy Policy 2069 (2013) has been initiated and the policy draft is currently in the final stage in consultation. Subsequently, revision of the subsidy delivery mechanism has also been initiated. To strengthen the public accountability aspects of AEPC and its outreach partners, the study to identify the existing accountability gaps was initiated and is currently being finalized along with the preparation of accountability tools. The preparation for the adoption of PPA/PPR guidelines in subsidy delivery processes has also been explored which will be reflected in the subsidy delivery mechanism when that gets finalized. Other major initiatives have been the initiation of preparation of Nepal’s 20 years perspective plan, preparation of AEPC IT Policy and Guideline, preparation of IT policy and Guideline and revision of NRREP Administration and Financial Guideline are some other significant achievements of the reporting year. Capacity building of AEPC staff through various training and exposures is another set of achievement towards strengthening AEPC as an institution.

**Climate Change and Carbon:**

In line with the NRREP output for CCU which states “CDM and carbon market instruments are functional and generate revenue”, CCU managed this year, to issue the 386,703 CERs from four Biogas Project Activities (PA-1,PA-2,PA-3 and PA-4), Biogas PoA (4 CPAs) and Micro-hydro CDM projects registered with UNFCCC

CDM EB. The gross carbon revenue attributable to these projects is about 3.2 Million USD. AEPC was also successful in the registration of the Improved Cookstoves PoA. The estimated CER will be 33,770 tCO<sub>2</sub> per CPA and it is expected that there will be about 20 CPAs till 2017. Additional 3 CPAs have been included in Biogas PoA. Having such projects/programs in place, it is expected that 0.33 Million CER will be issued in coming FY 2015/16 generating equivalent revenue of about 2.6 Million USD. In this FY, AEPC was able to sign Emission Reduction Purchase Agreement (ERPA) with Asian Development Bank's Future Carbon Fund (ADB/FCF) for ICS PoA and IWM PoA combinely for 0.575 Million CERs with carbon revenue equivalent to 2.87 Million USD.



**Monitoring and Quality Assurance:**

In the reporting year, the MQA unit has started administering third-party monitoring/verification of the installed RE systems; particularly solar home systems, institutional solar PV system, solar dryer, improved water mills, household biogas plants and metallic ICS. Similarly, the power output and household verification of pico/micro hydro systems was also continued in the reporting year. This is one of the major strategic shifts obtained by AEPC/NRREP to execute all monitoring works through MQA unit in an integrated manner. With the aim to enhance the capability of the concerned consulting firms and individual experts (whose service was utilized in the monitoring works), a good number of human resources have been trained in their respective areas of operation. Significant progress is achieved towards establishing web based “Monitoring and Reporting System” which has enabled online entry of field monitoring data/information by the third-party monitoring consultants, and generation of reports in specified formats. A culture of result based management approaches has been established at all levels of the NRREP, particularly in the program planning, implementation, monitoring and reporting systems.

**Gender Equality and Social Inclusion:**

The developed guidelines like Social Mobilization, GESI Audit and Toolbox are in practice to sensitize and aware beneficiaries and design/implement GESI responsive activities at regional and community level. Focus was given to enhance the capacity of professionals from center to regional level for GESI responsive planning. Innovativeness and continuous technical backstopping for effective planning, implementation, monitoring and evaluation was the target of GESI to reach the development benefits towards women, poor and socially excluded. As given the effort, the progress summary is presented below:

Capacity development training was conducted to AEPC/NRREP professional at center, team leaders and GESI officers from RSC level on GRB and various perspective of GESI. To achieve the objective of the program in enhancing the concept and approach of GRB among the professionals and make familiarize on various terminology (Social exclusion/inclusion, barefoot engineering, GESI audit) and its application in mainstreaming, the personnels having specialized on subject matter was invited from ministry level.

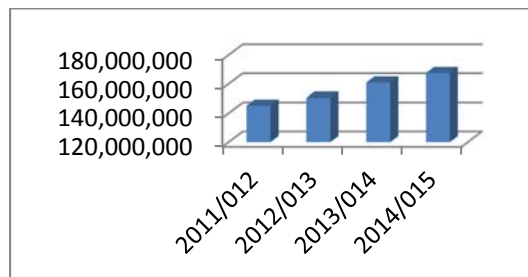
Pilot testing of Barefoot Engineering approach has been done with the aim to improve the lives of the rural poor and women in remote inaccessible villages who lack the basic facilities for livelihood. Continous support provided to all RSCs in annual planning, implementation, monitoring and evaluation so that GESI concern is addressed. Necessary forms/format and guideline developed and oriented to all RSCs for clear understading, easy application and maintain consistency on work execution.

Success stories were developed as per the guidelines. The stories were all about the impact of RET on lifestyle of poor and excluded. Staffs from all RSCs were mobilized to collect the best success stories. The first hand information received from RSCs was reviewed and edited to make the stories more clear and understanding. But due to some unavoidable circumstances in AEPC/NRREP, this activity has been halted.

Regular technical backstopping to execute the activities, field visits and monitoring is aways the priority of GESI unit to address the GESI issues in the programme. Support to maintain the database on beneficiaries, development of forms/format and guideline and orientation on its application has made RSC staff comfortable to successfully implement the planned and additional activities.

**Local Body Coordination and Outreach Management:**

Local Body Coordination and Outreach Management Sub component of AEPC/NRREP is instituted to ensure coordinated expansion of renewable energy technologies through efficient and effective mobilisaiton of local governance bodies, national and regional service delivery organisations and other relevant programs/projects and organisations localize RET services through local body coordination. In this context, one of the major achievement for the subcomponent was in regards to promotion, development , expansion and monitoring of RE through involvement of DDCs. Based on the financial data received from DDCs, the total budget allocated from internal revenue by DDCs for RETs has been gradually increasing over the past few years.



Local resource allocation trend of the past four years (Amount in NRs)



The above chart shows an increasing trend in the total local resource allocation in the last four fiscal years. It indicates the increase in attention in the expansion of RETs by the local level to improve the livelihood of the local people. It also reflects EECCOs' achievement in promotion of RETs in the districts.

In addition, Norwegian Embassy has taken the initiation through MoFALD and LGCDP to make access of RETs to the target group by creating synergy between NRREP and LGCDP, MoFALD and AEPC. MoFALD, Environment Management Section has therefore requested to organize RET programme explicitly to achieve the indicators of RETs under EFLG framework. In this regards, Project Funding Matrix (PFM) has been approved for four districts (Chitwan, Palpa, Gulmi and Sarlahi) and upon budget release from MoFALD for implementation of EFLG program, contract was signed between users committee and DDC for installation SHS and ICS in the four district. Accordingly, in Sarlahi, , 16 Institutional Solar System installed in Birthing Center and Health post, 874 SHS and 1361 ICS Installed. In Gulmi, 14241 ICS installed and 33 VDC were declared IAP free. In Chitwan, 195 ICS and 272 SHS Installed. In Palpa, 80 Biogas Plant, 200 SHS and 1417 ICS installed through this programme.

This result was possible because of continuous collaboration with MOFALD and organisation of various capacity development activities for LDOs, Planning Officers, Programme Officers and DEECCS Engineers of 4 districts before implementing the programme. Thus, overlapping 3 districts (Chitwan, Palpa and Gulmi) of EFLG programme with BESC implementation districts (DDC led mid hill districts) were successful in bringing better result in ICS promotion (biomass technology) along with other technologies. This results clearly reflect that this collaboration can be expanded beyond four districts in remaining mid hill districts where biomass activities are being implemented through DDCs However, regorus capacity development activities for promoting Biomass technology to DDC personels & regular collaboration/coordination with MoFALD and DDCs are required. In order to carry out capacity development activities, Outreach sub-component seeks for sufficient allocation of budget from NRREP.

### **Communication and Information Technology**

In the reporting year some significant changes has been made in AEPC/NRREP in terms of communication and information technology though the Unit was established near the end of the FY. To support the program objectives of AEPC/NRREP Communication strategy and action plan is finalized. This has suggested major three areas to intervene; internal communication, external communication and program communication. The strategy has identified various actions to be carried out for FY 2015/016. This strategy is believed to contribute the public disclosure system of AEPC/NRREP for transparency and accountability. Similarly, Information Technology Policy and Guideline of AEPC/NRREP has also been prepared during the reporting period. This policy will significantly help to strengthen the IT and data management of AEPC/NRREP.

### **Immediate objective-3**

*To contribute to an increase in income generation potential for micro, small and medium sized enterprises (MSME) in rural areas, particularly for men and women belonging to socially and economically disadvantaged groups.*

PEUC has made a significant progress in the fiscal year 2014/15. Total 848 MSMEs (78% new and 22% upgraded) and 1,984 IGAs supported from PEUC have mobilized the investment of NRs. 346 million creating

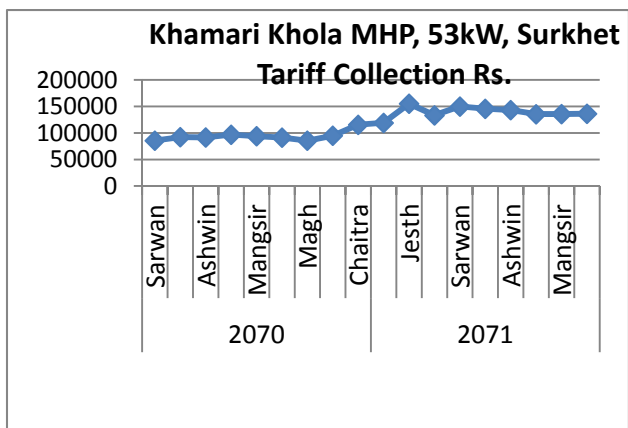


employment opportunities for 2,788 people. These MSMEs have not only created economic opportunities in the RE catchment areas but also contributed for the sustainability of micro hydro projects.

**PEU Promotion in Khamari Khola MHP Catchment Area**

Khamari Khola MHP situated at Babiyachaur VDC, can be reached in three-hour drive from Birendranagar, Surkhet. The MHP has an installed capacity of 53 kW. Khamari Khola MHP has proven itself as a viable solution for providing reliable energy, thereby, providing positive economic impact on low income populations of Babiyachaur. Contribution of AEPC is visible in promoting productive use of available energy in the MHP catchment area. Eighteen micro and small enterprises have been established in the MHP catchment area through technical and financial support from Productive Energy Use Component of NRREP/AEPC. These enterprises are providing employment opportunity for 50 local people (28 full time and 22 part time). In addition to these enterprises, 25 households are involved in various income generating activities (IGAs) creating self-employment opportunities for themselves. These enterprises and IGAs have mobilized investment of more than NRs 8.6 million out of which around 25% was supported from AEPC.

Operation of these enterprises has contributed towards sustainability of the MHP via increasing the revenue through maximum use of the electricity generated in productive sectors. Tariff collection of the MHP has been significantly increased after the establishment of those enterprises. The tariff has been increased by 75% of the baseline tariff before the PEU activities were initiated. The figure shows the increasing trend of the tariff collection for the year of 2071/72 in Khamari Khola MHP.



Out of total MSMEs supported, 15% owned by female. 38% MSMEs are owned by ethnic/indigenous people, 6% belong to Dalits and rest to upper caste from ethnicity perspective. PEUC has exceeded the target of promoting at least 25 % of new MSMEs to be owned and run by women and DAG.

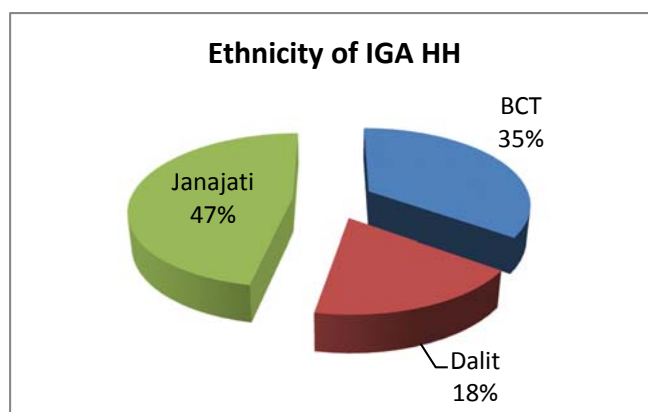
Income Generation Activity (IGA) development is another success of the year to highlight on. Total 5,166 IGAs plans were prepared and assessed, out of which 3217 plans were approved by RSCs for grant support. However, only 1984 IGA Households were able to receive grant support from the programme due to the freezing of budget in the beginning of June 2015.

Out of total IGAs supported, 61% are owned by female and 39% owned by male. 47% of the supported IGAs belong to ethnic/indigenous people, 18% belong to Dalits and rest to upper caste from ethnicity perspective. In the case of IGAs promotion as well, PEUC has well exceeded the target of promoting at least 50% IGAs belonging to women and DAG.

## 4.2 Component/Sub component/Unit wise Major Accomplishments:

### 4.2.1 Central Renewable Energy Fund Component:

- CREF's Investment Committee has been established.
- The Secretariat has been established with staff.
- Seven partner banks and one handling bank has been selected.
  - The Handling Bank is Global IME Bank
  - The partner banks are:
    - Bank of Kathmandu
    - Clean Energy Development Bank
    - Civil Bank
    - Nepal Investment Bank
    - Himalayan Bank
    - Siddhartha Bank
    - Tourism Development Bank
- Orientation on the Financial Management Mechanism has been done to all banks
- Orientation on Subsidy Management procedure has been done to HB
- Orientation on MHP has also been done as planned under capacity development to be done by CREF. More such visit, orientation and dedicated programs are planned for next fiscal year.
- Handling Bank has been provided over Rs. 2.09 billion for subsidy payment
- Partner Banks have been provided Rs. 230 million for credit disbursement



### 4.2.2 Biogas Energy Sub Component:

#### Domestic Biogas

- 38,729 numbers of domestic biogas plants completed and recommended for subsidy payment; subsidy is paid for 30,078 plants, and is yet to be paid for the remaining plants; SAFs are being processed for additional completed 5046 plants.
- Revision of Biogas Owners' Manual and development of information poster
- Revision of Subsidy application forms
- Development of PQ criteria for companies
- Development of scientific PQ criteria for the appliance manufacturing workshops

- Development of Household biogas construction guideline
- Development of third party monitoring guideline
- Revision of Biogas Training Manual
- Development of improved schedule of training of masons and supervisors
- Development of biogas leaflets
- Assessment of efficiency of biogas appliances
- Development of methodology of calculating the MRP of biogas plant
- Market assessment of biogas
- Socio economic impact study of BSP (1992 – 2012)
- Pilot of compact kitchen waste urban plants
- Successful tests of FRP Biogas digesters
- Development of technical specifications, installation and monitoring guideline of FRP
- Study and release of local materials for biogas to replace imported materials
- Introduction of new model of pressure meter and biogas stove
- Successful pilot of digital data capture technology
- Plant Rehabilitation and Efficiency improvement project
- Established biogas repair and maintenance fund
- Development of subsidy forms download system
- Development of Business development Service support package for companies
- Development of Internal Quality Control Mechanism for companies
- Establishment of a Toll Free Number

#### Large Biogas Plant Progress in this FY

- A Biogas Calculation Tool to assist consultants on the outline design and financial analysis of projects has been prepared.
- Guideline for Developer in hiring D/FS Consultant, Model Tri-Partite Agreement among AEPC/Developer/Construction Company, Support Mechanism for MSW Plants, etc, finalized
- The SREP Results Framework for large biogas plants has been prepared.
- Project Operation Manual (POM) prepared and approved by the World Bank on 12 June, 2015.
- The finance manual for SREP program was prepared from consolidation with the world bank
- The testing and commissioning guidelines was prepared and validated amongst the stakeholders of large biogas plants.
- Promotional Materials were prepared for promotion of large biogas plants for commercial enterprises and municipalities.
- 4 rounds of trainings on FS/DFS for pre-qualified consulting firms have been given and an additional 3 rounds of construction training on large biogas have been conducted.
- Reporting Format to CREF has been prepared.
- Biogas Plant Commissioning, Testing and 1 Year Guarantee Monitoring Guidelines has been prepared.
- Eight new consulting firms and five construction companies have been added in prequalification list. Currently there are 23 consulting and 37 construction companies pre-qualified for large biogas sector.
- Additional ESMF Clinic organized for prequalified Consulting Firms in FY 2014/15.

- Waste to Energy Website (<http://www.w2ebazaar.org.np>) has been relaunched.
- A prototype design of large biogas plants up to 100 m<sup>3</sup> has been developed for large Biogas System construction.
- "Conduction of Feasibility study for usage of Biogas in Transport Vehicles (Sajha Bus)" has been completed.
- 20 plants have been constructed and handed over to developer and 22 large biogas plants are under construction in different region of Nepal.
- Feasibility study for MSW project in Biratnagar Submetropolitan city has been completed.
- Feasibility study for MSW project in Vyas municipality has been completed.
- Testing and Commissioning Training for Independent Third Party Verifiers has been accomplished.

#### 4.2.3 Biomass Energy Sub Component

- 'Promoting Enterprises for Scaled up ICS Dissemination (PESID)' has been initiated and Short listing of eligible forms for the Capacity Building Agency (CBA) submitting EOI completed
- Upgradation of BESC database is functional and live
- Development of Nepal Interim Benchmark for solid biomass Cookstoves (NIBC-2014) completed
- DDC led BESC Implementation modality in place except two districts
- Conducted 3 batches of Training of Trainers (ToT) to 78 number of RSCs, DSCs and DDC/DSCs District Coordinators and Local Social Mobilizers
- Trained 49 EEOs/AEEOs of DDC/EECCSs on ICS Dissemination
- Trained District Coordinators of High hill Districts on ICS/MICS Dissemination
- Trained 1,706 number of Stove Masters (Female 903 & Male 803) through Basic training on ICS technologies for business groups
- Conducted 6,434 numbers of Cluster level behavior change workshops.
- Conducted 329 numbers of Cluster level orientation and demonstration
- Organized 122 numbers of VDC Level consultative workshop and action committee formed.
- Conducted 2261 numbers of VDC Level action committee meetings
- Declared 66 number of VDCs as IAP Free VDCs and declared 7 number of IICS clusters
- Printed and disseminated 440,000 copies of ICS users' manual for Mid hills and Terai with revision of GESI requirements and 5,000 copies of Subsidy Application Forms (SAFs) for MICS.
- Conducted NACC Leadership Council Meeting on 10th of July at AEPC
- Presented and facilitated the BESC part and field preparation for Mid Term Review Mission
- Conducted three number of Regional Level Review and Planning Workshop for DDC led districts at Nepalgunj, Pokhara and Kathmandu with A/EECCOs and DCs of DSCs
- Short listing of eligible forms for Strategic Plans submitting EOI completed
- Random Sample Monitoring of 300 number of Mud ICS for RSC operated Terai Districts completed
- Facilitated due diligence mission for the purpose of "Certified Emission Reduction Purchase Agreement (CERPA)" of ICS
- Centre level Verification of 3<sup>rd</sup> & 4<sup>th</sup> lot of MICS deviated cases found through third party monitoring completed
- Collaboration workshop organized with different stakeholders working in ICS sector for achieving national target of 800,000 ICS announced by GoN through Budget Speech
- Stakeholders' workshop on Metallic Improved cooking stove conducted on 14 August 2014
- Interaction Workshop among Private Sector Associations Involved in RETs organized on 15<sup>th</sup> August 2014
- Final Inception report and draft script received on Production Video documentary

- Final Inception report and draft content received on Design of Information, Education and Communication materials
- Conducted three batches of installer training on MICS installation at Itahari, Kathmandu and Nepalgunj for 79 installer of different MICS prequalified company
- Supported RETS with design of laboratory and test equipments for upgrading existing biomass stove testing facilities from PEMS to LEMS testing facility compatible with international IWA testing criteria for biomass stove testing.
- Biomass cook stove design listing process completed with listing of five benchmark passed stoves eligible for dissemination under AEPC. Design listing process was made open to all through the year for NIBC criteria fulfilling new stove models in the market. The decision was made with the conduction of first TRC meeting.
- Conducted two lots at training on biomass densification with focus on community enterprise and market development to 60 participants (M-35, F-25)
- Completed first round of testing of biomass briquette burning stoves at RETS for performance evaluation and feedback to the manufacturers for improvement of the product and standardization of briquette burning stoves.
- Developed briquette burning space heater for piloting the technology.
- Completed design and retrofitting of three composite materials Large Scale Institutional Cookstove at Pashupati Social Welfare Center (Bridhaashram) with the result of saving 80 Tons of firewood (50% reduction in fuelwood consumption) per year and IAP free kitchen environment.
- Eight day CCT testing conducted at RETs under the study called “Understanding consumer preference and willingness to pay for improved cooking stove”.
- Conducted Stakeholders' meeting on Expert Contributions to Standards Development for field Testing Methods (WG3) under “ISO/TC 285: Clean Cookstoves and Clean Cooking Solutions”. Completed procurement process of Quality testing and output verification equipments for gasifier electrification system.
- Completed installation of 11kWe Biomass Gasifier community electrification project at Lamiduali VDC of Dang as policy piloting and is ready for inauguration.
- Inception report received for the conduction of Feasibility study and potential site identification for electricity generation through Chir Pine Needles based Gasifier system in Mid Western Region of Nepal.
- Inception report received for the conduction of detailed feasibility study of potential sites for biomass gasifier electrification in rural communities of Sunsari and Chitwan districts.
- Six proposal received on the call for prequalification of “Manufacturing and/or Installing Companies for supply, installation and after sales services of Biomass Gasifier System for Thermal Application and/or Electricity Generation” and evaluation completed.
- To address quick relief to community in the most damaged area by earthquake, AEPC/BESC with support from Child Nutrition Programme had disseminated 550 portable metallic stoves.

#### **4.2.4 Solar Energy Sub Component**

- Navision database for subsidy has been upgraded to NAV2005 to NAV 2013 R2 which is ready for SAF processing from the start of new fiscal year (i.e. from July 17, 2015).
- SESC is in the process of developing paperless subsidy administration system. Under this effort internet based online subsidy administration system has been developed and in next phase the collection of data in the site i.e. household where system is to be installed will make digital. The first phase Online SAF processing system has been developed. Software Penetration test and user acceptance test of the system has also been completed.
- PQ companies were given training on online SAF registration system.

- 44 numbers of new PVPS projects are approved by Photovoltaic technical committee and 41 others are in pipeline for approval.
- Conducted detail feasibility study for piloting “Solar pasteurization of substrate for oyster mushroom production using concentrated solar water heater” in Morang district.
- Proposal was called for shortlisting of the companies for the dissemination of solar technology (SHS/SSHS/Solar dryer/cooker).
- Process has been initiated to pilot concentrated solar power system for industrial thermal application.
- Design and construction guideline of civil components for community based Rural PV Drinking Water supply projects have been revised and updated.
- Various training manual like Level -1, Level-2, and Engineers desing Manual have been updated.
- To shorten the subsidy processing cycle, SESC uploaded digitized subsidy application form in AEPC website for the qualified companies to download and use when and where required.
- Technical support was provided to “Swargadwari Temple” for installation of solar water heater at the temple.
- SESC in coordination with RERL has designed mobile application for solar system design.
- SESC in coordination with RERL has designed technical standard for rooftop solar power system.
- SESC in coordination with RERL is developing solar technician level II installation manual.

#### 4.2.5 Community Electrification Sub Component

- Testing and commissioning of 2400.6 kW MHP and PHP completed benifitting 25,235 rural households
- Additional financial support approved Rs.130,420,461 to 28 MHPs, 1928 kW
- Support for establishing turbine testing facilities lab in collabration with Kathmandu University completed
- IWM efficiency test of different models completed in collaboration with CES/IOE, Pulckhowk.
- The second local grid in the nation named "Gulmi Mini Grid" successfully completed in collaboration with IMREN project
- Detaill feasibility of Thingan Tri-Hybrid Project (connecting MHP, Solar and Wind projects) is completed
- Recruitment of Mini / Micro Hydro Project Manager’s have been completed and 7 Project Managers have been deputed in MHP sites in 5 RSCs
- Project Management Manual for Mini / Micro Hydro Project Manager has been Prepared
- Standard bidding document for Mini Micro Hydro Projects (EOI and RFP) prepared and circulated to all RSCs
- Final report prepared for PQ of MHP manufacturing companies
- PQ Extension of LPO and Kit manufacturer companies has been completed
- Draft report prepared for Completed PQ of MHP Survey consulting firms and MHP installer companies
- 682 Improved Water Mills have been installed from which 27,866 households (135,986 populations) have benefited

**Table 9. Number of MHPs by Status:**

S. No.	MHPs by Status as of 2013/14	No. of Projects	kW	Beneficiaries Households
1	<b>Completed Projects</b>			
a	Project Commissioned – (micro/pico hydro)	126	2,400.6	25,235
2	<b>Ongoing Micro Hydro Projects</b>			
a	DFS Completed Projects	29	1530.5	10,031

<b>b</b>	TRC/Conditionally Approved Projects	29	1830	11,429
<b>c</b>	Final Approval (Under Construction) Projects	63	2431.90	22,494

#### 4.2.6 Outreach and Local Governance Subcomponent

- DEECCs are regularly involved in promotion, development, expansion and monitoring of RET services in all districts. Random monitoring of RETs was conducted in the first trimester. MoFALD and AEPC have reached to a common understanding to implement a pilot project to initiate EFLG –Energy programme in four districts (viz- Chitwan, Palpa, Gulmi and Sarlahi). PFM approved for four districts (Chitwan, Palpa, Gulmi and Sarlahi) and upon budget release from MoFALD for implementation of EFLG program, Contract was signed between users committee and DDC for installation SHS and ICS in Chitwan, Palpa, Gulmi and Sarlahi.
- Orientation of more than 175 staff of different DDCs and Municipalities including LDO, Programme Officer, Account Officer, District Technical Officers and Executive Officer of different municipalities of Eastern, Central and Western region was conducted. The orientation mainly focused on different RE technologies and policies and role of local body in the promotion of RETs.
- Annual review and planning workshops for all 75 DEECCS Officers was conducted in Kathmandu in three batches.
- Strategy for Capacity Need Assessment (CNA) for DEECCs staff was drafted, revised and finalized. Selection of possible districts for first phase of capacity need assessment has been made. Draft of capacity building package has also been completed. Based on discussion with MoFALD and ADDCN, a concept note on capacity assessment and capacity development plan has been revised. Performance appraisal of all 75 DEECCOs for Capacity need assessment has been completed and the result is being shared within AEPC/NRREP for feedback.
- The budget under the heading, implementation of capacity building plan has been proposed to be transferred to the Prime Minister Relief Fund in wake of the catastrophic earthquake of 12 Baishakh, 2015
- Rapid Performance Assessment of DEECCO was conducted and report prepared. The performance was categorized from Excellent to Very Poor on the basis of various indicators disseminated within in AEPC/NRREP. Four field visits were conducted in DEECCS(1st trimester) Five field visits were conducted in Kaski, Morang, Nuwakot, Syangja and Palpa to monitor the performance of DEECCS(2nd trimester) Field visits were conducted in Kavre, and Nuwakot in the third trimester.
- All 25 districts have formally endorsed DCEP in their respective district council meeting. Request for Proposal (RFP) has been called for 10 additional districts which have been received.
- 25 Districts has been selected from the first level of screening for internalization at the first stage. Two separate meetings with PAF and ADDCN was conducted for further collaboration. After receiving proposal from ADDCN a contract was signed between ADDCN and AEPC for preparation of strategy for internalization of DEECCS in DDC. Due to unavoidable circumstances the activity was put on hold and the report is expected to be received on the first month of upcoming FY
- Online roster for engineers applying for the post of DEECCO has been developed and the new system is in practice.
- DSER of 74 districts has been received, edited and finalized.
- Feasibility study of Energy Hubs was conducted and the report received and revised
- Annual progress review of RSC/NSP has been conducted and upon accessing their progress performance annual contract has been made for the Fiscal year 2014/15. Similarly, two trimester review and planning workshops for RSCs and NSPs was conducted assess the RSCs' progress trend and tentative plan for



next year which was participated by team leader and chairperson of RSCs among others. Review meeting for NSPs was also held that discussed on compliance and audit issues of NSP (BSPN, NBPA).

- Auditing of RSCs for the audit of last FY, first and second trimester of this FY was supported. In addition, all RSCs were supported with financial expert/Officer to manage finance system better. Furthermore; training for Account Officers of all RSCs was supported on new/updated Navision accounting system.
- A Functional linkage workshop was held with three RSCs (SCDC, NCDC and REWSSPC) and 12 DDCs (Ilam, Dhankuta, Sankhuwasabha, Jhapa, Sunsari, Saptari, Morang, Khotang, Rautahat, Sarlahai, Parasha, and Mahottari) to strengthen the functional linkage between RSCs and DDCs in Biratnagar. This workshop was participated by 30 representatives from RSCs and DDCs. Rest of the budget under this heading has been proposed to be transferred to the Prime Minister Relief Fund in wake of the catastrophic earthquake of 12 Baishakh, 2015.
- Technical facilitation provided for improved coordination of RSCs; among the RSCs and between DDC and RSCs. Meetings, regular coordination and facilitation to minimize fiduciary risk of RSCs have been ongoing.
- A Monitoring field visits was conducted in RESDTEN, district partner of DCRDC located in Butwal and SCDC, Biratnagar, REMREC were conducted in addition to regular progress updates by the centre

#### **4.2.7 Institutional Support Sub-Component**

- Completed Annual Progress Review of AEPC 2013/14 that encompass all the accomplishments made by AEPC through its programme including NRREP for FY 2013/14.
- Completed the preparation AEPC/NRREP IT Policy and Guideline
- Completed finalization of revised Annual Work Plan and Budget of NRREP 2014/15. Some of the activities were either adjusted or budget shuffled amongst the NRREP component/units.
- NRREP Administrative & Financial Guideline revised to accommodate some imperative needs to adjust some aspects of grant support guideline.
- Completed drafting and preparing agenda and documents for Steering Committee meetings of NRREP.
- Under the capacity building activities, 8 employees from different component/Unit of NRREP including 1 Assistant Director of AEPC were recommended for the national and international trainings.
- Provided support to NRREP management to follow up with recommendations coming from NRREP compliance unit.
- MIS upgradation completed and the system passed the User Acceptance Test for further use by the compliance Unit.
- Network /System Architect Redesign of AEPC/NRREP initiated and proposals from external consultants have been received.
- Completed the preparation of NRREP planning tool.
- Co-organized the national summit on technology justice in collaboration with NAST, Practical Action and other institutions.
- Organized a team building workshop with approximately 60 participants including ED, SITA, SCA, AD of AEPC and PM, and NA, PO and APOs of different Components/Units of NRREP participated in the 1.5 days Kramik Pariwartan Workshop on April 23 and 24, 2015.
- Close consultative meeting with Development Partners and Government agencies on Renewable Energy Policy was held and comments received. Suggestions from comprehensive revision were received. More work on it is anticipated in the early months of next FY to complete the policy.
- Initiated the preparation Nepal's Twenty Years Perspective Plan; proposals have been received from external consultants and currently in the process of final evaluations of those proposals received.



#### 4.2.8 Monitoring and Quality Assurance Unit

- Third party monitoring of randomly selected samples of solar home systems (7777 nos.), solar dryers (53 nos.), household biogas plants (1579 nos.), improved water mills (59 nos.), metallic ICS (506 nos.) and 100% installations of institutional solar PV systems (106 nos.) is at completion stage. Draft reports have been submitted. *This activity was planned to be completed in the reporting period. However, the devastating earthquake, which occurred when the field work was in good progress, badly hampered the activity causing considerable delay in completing the monitoring/verification in the field. Moreover, a total of around 5% of the sampled systems could not be monitored in the earthquake affected districts.*
- Similarly random monitoring (through DDCs) of a total of 206 solar home systems, 9 micro/pico hydro, 107 ICS and 117 household biogas plants have been completed.
- Power output and household verification of 123 MHPs have been completed out of planned 140 MHPs.
- POHV training was conducted and a total of 29 POHV Inspectors have been trained
- AEPC Data warehouse and MIS Phase 1 development has been successfully completed. The Phase 1 primarily focused on integrating heterogeneous systems and databases spread across several components of AEPC/NRREP using ETL technologies. It has successfully integrated with those systems running and hosted within the AEPC infrastructure such as Solar.
- Training programme on field monitoring/verification of solar home systems, institutional solar PV systems, solar dryers, household biogas plants, improved water mills and metallic ICS has been conducted for Team Leaders and Field Monitors of the contracted third-party monitoring consultants.
- Similarly, conducted data entry training to relevant staff of third party monitoring consultants on entering third-party monitoring data into AEPC MIS.
- Integrated Quality Assurance and Monitoring Guidelines for Implementation of the AEPC/NRREP Supported Rural Energy Technologies have been prepared.
- Result based framework review workshop has been organized.
- Supported RERL to assess sustainability framework inception report submitted by consultant.
- Carried out monitoring visits in Dang, Kailali, Kanchanpur.
- Coordinated to prepare Annual Progress Report of the FY 2070/71.
- A culture of Result based management approaches introduced into NRREP's planning, implementation, and reporting systems as envisioned by the program document.
- Monitoring and Reporting System has been developed to manage third-party monitoring data/information and generate reports.
- Provided RET data (subsidy database) of the FY 2013/14 to all 75 districts.

#### 4.2.9 Climate Change and Carbon Unit

**Emission Reduction Purchase Agreement (ERPA):** Emission Reduction Purchase Agreement (ERPA) for the IWM PoA and ICS PoA are signed for total 0.575 Million CERs with gross carbon revenue equivalent to 2.87 Million USD. Similarly, ERPA amendment for the Biogas PoA and Micro-Hydro Project are also approved by MoSTE.

**CER Issuance:** Issuance of the Certified Emission Reductions (CERs) for the Biogas CDM Project activities (PA-1, PA-2, PA-3 and PA-4), Biogas PoA and Micro-hydro are achieved in this fiscal year. A total of 386,703 tons of CO<sub>2eq</sub> emission reductions were verified with corresponding gross revenue of 3.2 million USD.

#### **Inclusion, Validation, Monitoring and Verification:**

- ICS PoA is registered successfully with UNFCCC CDM Executive Board. The estimated emission reduction from each CPA will be 33,770 tCO<sub>2</sub>.
- Three CPAs (CPA-5, CPA-6 and CPA-7) are successfully included in the Biogas PoA in this FY. These three CPAs collectively include 56,738 biogas digesters with annual estimated emission reduction of 188,639 tCO<sub>2</sub>equivalent. Synopsis of digesters included in the CPA-5, CPA-6 and CPA-7 according to district is annexed (**annex 7.7**) with this report.
- Designated Operational Entity (DOE) has completed the on-site verification for the Biogas Project Activities and Micro Hydro verification for the total emission reduction of 177,523 and 27,134 respectively having total gross carbon revenue equivalent to 1.5 million USD. First drafts of the verification reports are received and the reply to the issues raised by DOE is submitted to World Bank for further processing.
- Monitoring of the Biogas Project Activities (PA-1, PA-2, PA-3 and PA-4), Biogas Program of Activities (CPA-1, CPA-2, CPA-3, CPA-4 and CPA-5) is concluded in this fiscal year.
- IWM PoA validation is in final stage.
- The baseline studies for two potential carbon projects (Waste to Energy and Solar Energy) are initiated in this FY. This will explore the possibility of execution of such projects under appropriate market/non-market mechanism.

**District Climate and Energy Plan:** Preparation of District Climate and Energy Plan (DCEP) in 25 districts (5 clusters) was completed and those plans are endorsed by respective DDC council for the implementation. DDC Kavre has initiated the preparation of DCEP with the support of technical and financial support from AEPC/NRREP. Additional 10 districts are selected for the initiation of DCEP preparation in this FY. List of 25 districts, those endorsed the DCEPs and 10 additional districts is annexed (**annex 7.8**) with this report.

**Low Carbon Economic Development Strategy (LCEDS):** Apart from the immediate activities outlined in AWP 2014/15 of AEPC/NRREP, relevant staffs of CCU were involved in finalizing the Low Carbon Economic Development Strategy. The final draft of the strategy has been submitted to the MoSTE with compilation of feedback from open collection through notice. Now, MoSTE is finalizing the strategy before sending it to the cabinet for approval.

**Reporting:** As a part of regular reporting to the World Bank, the annual progress report for the year 2014 of Nepal Village Micro-hydro Project was submitted. Similarly, other regular reporting to the ADB/FCF regarding the progress of ICS and IWM implementation related to ICS and IWM PoA has been done in this FY.

#### **4.2.10 Gender Equality and Social Inclusion Unit**

- a) Conducted a training program to AEPC/NRREP professional at center, team leaders and GESI officers from RSC level on GRB and various perspective of GESI. There were 61(F-23, M-38) participants in total. The training was for 4 days, presence of participants was managed accordingly as per the importance of training content to the participants.
- b) A visit was done to Barefoot College at Rajasthan, India. The concept of barefoot engineering was successfully implemented in Rajasthan therefore to understanding the implementation modality and

scope of barefoot engineering, personnel from ministry, team of GESI unit and RE source staff has visited barefoot college.

- c) Pilot testing of Barefoot Engineering approach has been done in RET catchment area, key highlights are as follows:
- Consultative meetings with components and chairperson of users committee for identification of potential sites
  - Preparation of feasibility study guideline and reporting structure
    - Site verification and feasibility study
    - Orientation to the potential participants and mapping of resources
    - Feasibility study report submission with recommendation of potential sites with name list of candidates and desired trade of vocational training
    - Total 38 participants were present for 3 months (390 hrs) vocational training on house wiring and mobile phone repairing.
    - But after the earthquake on 25<sup>th</sup> April 2015, only 20 (5 female and 15 male) participants returned back and successfully accomplished the training
- d) Guideline was prepared, shared/oriented to all GESIO for preparation of success stories. The case studies compilation, editing, proofing and layout design has been completed. Quotation has been called for publication but due to some unavoidable circumstances at AEPC/NRREP, final product could not materialize as scheduled.
- e) Continuous support is provided to all RSCs in annual planning, implementation, monitoring and evaluation to address GESI concerns.
- f) Technical backstopping to conduct GESI audit in all RSCs, feedback in report preparation and effort to address the issues/recommendation of audit in upcoming plan
- g) Meetings were conducted with right holders' organizations to identify pocket areas and launch programs for specific groups. But due to limited resources, this initiation has been planned for next time.
- h) Regular technical backstopping to RSCs to implement planned and additional activities, maintain the database on beneficiaries, development of forms/format/guideline and support in application to incorporate GESI concerns

#### **4.2.11 Business Development for Renewable Energy and Productive Energy Use Component**

- NRREP's MSME and IGA guidelines and strategies were updated based on the field experiences and feedback from various stakeholders including RSCs, DDCs and LEDCs.
- Local Economic Development (LED) committees are formed in 125 MHPs.
- 848 business plans are appraised and approved from BPRC and DPRC.
- 3 training programs were organized for BPU staff (all BPOs, ELOs and LEDFs) on "Business Counseling and Participatory Market System Development".

- 2 full day training were provided to BPU staff of REMREC on PEUC portal by NARMA consultancy. The training was supported from RERL.
- Training of Trainers for 18 local resource persons was organized.
- MOU was signed with CSIDB. Two batches of interaction workshop conducted (one in Chitawan with 31 CSIDB officers and another in Nepalgunj with 18 CSIDB officers) regarding effective PEU promotion in coordination with CSIDB.
- CSIDB organized 7 coordination workshops inviting the relevant stakeholders of PEUC in various districts
- Supported CSIDB in conducting “26<sup>th</sup> National Industrial Products, Services & Technology Exhibition and Best Entrepreneurship Award”. Supported 5 enterprises powered by RE to put up stalls in the exhibition as well as awarded 10 enterprises based on RE with “Special prize – Renewable Energy based Enterprise”
- Organized half day interaction with various entrepreneurs for promotion of RE based MSMEs in collaboration with CSIDB
- 20 CSIDB officers were trained in business counselling and management
- Training manual for training for LEDC committee members developed
- Value chain study on mineral Gemstone and Slate stone Sub-sector in selected districts completed
- Extended energy use catalogue for PEU developed.
- PEUC web portal upgraded for online processing of business plans and IGA plans.
- Stakeholders meeting with Lokta Stakeholders in Dadeldhura conducted
- 32 lokta handmade paper workers were imparted with hands-on training at two locations, one in Kathmandu and other at Taplejung.
- Study on on “Rural Industrial Cluster Framework” completed
- Orientation programme organized to GESI, ID & M Officers on IGA process and involvement
- Interaction programme with Financial Institutions in collaboration with CREF organized
- Organized and conducted “Business Management and Marketing Training” for Lokta Handmade Paper Manufacturers in collaboration with RERL. 19 Lokta Hand-made paper producers supported by AEPC/NRREP participated in the training. The training also had a Buyer-Seller meet session, which saw a huge participation from sellers and exporters of lokta-based papers.
- Carried out discussion on BDS concept as an internal capacity development session with support from RERL
- Organized and conducted “Business Plan Assessment Training” for PEUC staff
- 2 half day training were provided by NARMA consultancy on operationalized of PEUC web-portal. The logistic for the training was supported from RERL.
- 29 dairy entrepreneurs were trained on developing various milk-based products
- 17 bakery entrepreneurs were trained on developing various bakery items
- 19 entrepreneurs participated in the advance tailoring training held in Itahari
- 24 entrepreneurs participated in the 7 days “Training of Trainers on Computer Education” held in Butwal
- 3 days Business Management training was provided to ICT based entrepreneurs in Butwal (21<sup>st</sup> – 23<sup>rd</sup> June, 2015). 22 entrepreneurs participated in the aforesaid training. The training was conducted with the support from RERL
- 46 no. of enterprise promotion trainings (creation, upgrading and hands-on skills) organized through RSCs
- 11 LEDC Capacity building training for MSME promotion from local resource persons organized

- Six monitoring consultant visited Udayapur, Nawalparasi, Syangja, Rolpa and Jajarkot.
- Assessment of business opportunities in areas electrified by renewable energy technologies and feasibility study of energy intervention in Lokta handmade paper product

#### 4.2.12 Information and Communication Technology Unit

- The Communication Strategy of AEPC\NRREP with one year action plan and IT Policy and Guideline of AEPC\NRREP has been completed. Similarly, Prioritized Action Plan of communication strategy of AEPC/NRREP has been finalized
- Integration of BESC & Finance MIS with Central MIS has been accomplished using ETL packages.
- Reports have been finalized as per requirement. Upgrade of data entry system has been achieved. SHS, MICS & Household Biogas Plant reports has been developed and is deployed to server.
- Navision has been installed in the handling bank; Global IME bank and linked to AEPC via VPN over VLAN. Operational level training was provided to 5 users. One Read-Only NAV user has been provided to bank for subsidy processing.
- Administrative procedure has been completed, called for proposals and proposals and bid documents have been received and ready to evaluate for redesigning Network/System Architect of AEPC\NRREP.
- To upgrade the current DATA Storage Capacity in AEPC and in Disaster Recovery (DR) site, the bid was called for the supply of Network Storage Device and high capacity Hard Disk Drive (HDD). The Bid documents have been received and ready for evaluation.
- AEPC/NRREP booklet has been translated to Nepali from English language. Proposals were called to design and publish.
- Proposals has been received for updating and printing Story book which has information of Solar, Mini/micro Hydro, ICS and Biogas technology with introduction benefits and delivery mechanism in a story format.

### 4.3 Major documentation and publication

AEPC as a public institution always aims to maintain transparency and inform its stakeholders through different means of communication. For the purpose of knowledge sharing, the AEPC/NRREP has managed to upload all the study, research and other reports in [www.aepc.gov.np](http://www.aepc.gov.np). Following are the major documentations/publications prepared-published in the reporting period:

S.N.	Name of Publication	Remarks
1	Study on functional status of randomly selected MHVEPs	Hard Copy & Online
2	Case study of MHVEPs identified from functional status study	Hard Copy & Online
3	Quality Assurance Mechanism for Mini Hydro and Large Solar System	Hard Copy & Online
4	Technical Standard for grid connection	Hard Copy & Online
5	Guidelines for Development of Mini Hydro in PPP Model	Hard Copy & Online

6	Renewable Energy Source (RE-Source) Programme Strategy	Online Only
7	Communication strategy of AEPC/NRREP	
8	Mud ICS Users' Manual	Hard Copy & Online
9	Nepal Interim Benchmark for solid biomass Cookstoves (NIBC-2014)	Hard Copy & Online
10	Integrated Quality Assurance and Monitoring Guideline for Implementation of the AEPC/NRREP Supported Rural Energy Technologies	Hard Copy & Online
11	Implementation Strategy and Working Guidelines for Promotion of MSMEs, PEUC (Both in Nepali and English version)	Hard Copy & Online
12	Implementation Strategy and Working Guidelines for Promotion of IGAs, PEUC	Hard Copy & Online
13	Training of Trainers Manual for the training of LEDC	Online Only
14	Developing a Framework to Promote Rural Enterprise Cluster/Estate (RIC) in Mini/Micro Hydro Catchment Areas	Online Only
15	A Detailed Catalogue of Energy Use Application for MSMEs (Both in English and Nepali)	Online Only
16	Opportunities and Constraints in Promoting Mineral Gems and Slate/Slab Sub-sectors Related Enterprises	Online Only
17	District Level Project Review Committee, Reference Book 2014	Hard Copy & Online
18	Project Management Manual for Mini / Micro Hydro Project Manager	Hard Copy & Online
19	Mini Micro Hydro Additional Financial Support Delivery Mechanism- 2071	Hard Copy & Online

## 4.4 Organization and Human resource status

### 4.4.1 Policies/Strategies/Guidelines

NRREP recognizes that the ability to fulfill its AEPC/NRRP objective and strategic plan relies on fostering an environment which develops the organizational efficiency and maintains the highest quality standards in obtaining its targets and objectives. In this contexts, following policies/strategies and guidelines have been prepared or in the stage of preparation.

List of guidelines prepared, approved and initiated:

- I. NRREP Communication Strategy and Action Plan (Completed)
- II. Renewable Energy Subsidy Policy (Final Review and Consultative Stage)
- III. AEPC IT Policy and Guideline (Completed)
- IV. Renewable Energy Policy (consultative stage)

- V. NRREP Administration and Financial Guideline (Revised)
- VI. Identification of Public Accountability of AEPC Activities (Final review)

#### 4.4.2 Organizational Structure and HR status

There is a common understanding that the organizational structure of AEPC needs revision with organizational defined strategies and structures with functional analysis of those core functions envisioned within SOD. The instrument for revising the structure is SOD, which is informed by systematic functional analysis. AEPC has completed revision of SOD and forwarded to ministry for approval.

Arising the gap created by the resignation of Internal Senior Technical Advisor effective from start of July 2015, interim arrangement had been discussed with Development Partners to fill in that gap through local recruitment until the new international advisor joins in. The new international advisor is anticipated to join the programme by November 2015.

There is 136 staff currently working in the AEPC/NRREP. Out of that, 41 are AEPC staff working for NRREP and 8 contracted staff. Out of total staff, 95 are sole NRREP staff including 44 consultants.

#### 4.5 Compliance:

Compliance Unit has been working to bring to light of the information and evidence of NRREP operation. It is continuously reviewing NRREP activities to see if they have been carried out under approved and agreed norms, rules, regulations, procedures and laws. Compliance Unit has been a good tool of NRREP management for quality assurance, planning, process updates, efficient and effective implementation and control systems. Implementation of NRREP activities with zero tolerance level of corruption; maintenance & improvement of efficiency and effectiveness of systems and feedback & follow-up for the corrective measures have been the focus of Compliance Unit. As in the past, Compliance Unit has also been the regular source of information for NRREP Management, Development Partners and Steering Committee. Compliance Unit has continued its assistance to NRREP management in the following endeavors:

- establishing, maintaining and promoting efficiency and effectiveness in NRREP activities/systems;
- adding value for money and good governance through corrective measures, improved operations, systematic approach, risk management and controlled processes and systems'
- follow up for corrective measures to get final solutions in systems and processes;
- communicating concerned parties of NRREP for the corrections of deficiencies in systems/processes/implementation;
- capacity building of the parties / agents / staff involved in NRREP activities

As in the past, Compliance Unit continued the following important tasks.

- Review and Monitoring of utilization of subsidy in various Renewable Energy Technologies
- Compliance Unit opinions and comments to NRREP management about the rules, regulations and procedures on day to day basis.
- Support in the transition of REF/CREF/AEPC to Handling Bank & CREF Investment Committee Secretariat.
- Advisory services to NRREP Management, Stakeholders and Service Providers on varieties of issues – for maintaining the compliance in NRREP activities.
- Support to NRREP Management- in the recruitment of competent staff.
- Conduction of various seminar, workshop, trainings and meetings for maintaining compliance.
- Oversight of NRREP Procurement.

- Facilitation to adopt Public Procurement Act and Public Procurement Rules.
- Support to NRREP for smooth, efficient and effective operation of NRREP Programme.
- The role of whistle blower for the compliance of norms, rules and regulations agreed between GoN and Development Partners.
- encouraging DPs, e.g. the World Bank and the Asian Dev Bank to adopt GoN Public Procurement Act and Public Procurement Rules
- Encouraging DPs, e.g. the World Bank and the Asian Dev Bank, to align their support in NRREP Framework.

Compliance Unit suggested number of recommendations for corrective actions to be taken in cases of identified issues of non compliances in ISPS installations in particular and in other areas of operations at NRREP. The major issues identified in the reporting have been primarily the issues of non compliances in ISPS installations, possible quotation manipulation and issues of collusion from solar companies. AEPC took the matter seriously and started addressing the issues to settle the matter. Additionally, AEPC received the instructions from DPs, MoF and MoSTE on the possible course of actions to be taken seriously. Individual meetings have been completed and all issues have been settled with 17 companies; another 7 companies have come for individual meetings but the negotiation couldn't conclude and hence the issues are yet to be settled; whereas the clarification letters have been issued to another 7 companies having only collusion cases. The ISPS matter is expected to be completed by the first quarter of FY 2015/16 while other issues of non compliances too will be settled in close consultation with compliance unit.

#### 4.6 Coordination/Collaboration with other agencies

- AEPC/NRREP signed a MOU with Industrial Enterprise Development Institute (IEDI) to foster collaborative and partnership approach in meeting goals and objectives of the parties to support to promote Micro, Small and Medium Enterprises (MSMEs) and Income Generation Activities (IGAs) based on RETs. The major activities under this MOU were as follows
  - 3 days Business Management training were provided to 22 ICT based entrepreneurs in Butwal (June, 2015)
  - 5 days Business Management Training for 21 women entrepreneurs in Baglung (June, 2015)
- AEPC/NRREP signed a MOU with Cottage and Small Industries Development Board (CSIDB) to collaborate between the Parties for promoting better coordination among the relevant stakeholders related to MSMEs promotion at the district level. The major activities under this MOU were as follows:
  - 20 CSIDB officers were trained in business counselling and management
  - CSIDB organized 7 coordination workshops inviting the relevant stakeholders of PEUC in various districts
  - Two batch of interaction workshop conducted (one in Chitawan with 31 CSIDB officers and another in Nepalgunj with 18 CSIDB officers) regarding effective PEU promotion in coordination with CSIDB.
- AEPC conducted a coordination meeting with its NRREP development partners, private sector and civil society organizations on 10<sup>th</sup> Sept, 2014 that discussed the major activities to be undertaken by the NRREP
- RE-Source signed MoU with Multi-stakeholder Forestry Programme (MSFP).
- In collaboration with Kathmandu University supported the establishment of turbine testing facilities lab
- In collaboration with IMIREN project the second local grid in the Nepal named "Gulmi Mini Grid" successfully completed.



- Collaboration with Winrock International USA & Nepal, FHI 360(United States) for the conduction of “WASHplus Nepal Cookstove Study Project”
- Collaboration with Swotha Chulo Nepal for the promotion of Mud Improved Cooking stoves in Gulmi, Dolakha, Ramechhap and Kavre
- Collaboration with SNV for the promotion of Mud/Metallic Improved Cooking stoves in seven district of far western region through Improved cooking stoves Carbon Financing (ICF) project
- Collaboration with CRT/N for the promotion of Mud/Metallic Improved Cooking stoves in Sindhuli, Udaypur and Khotang through promoting Women led Enterprises for Energy access and local production (WEE, Nepal) project
- Collaboration with Practical Action for the promotion of Mud/Metallic Improved Cooking stoves associated with smoke hood in Dhading on Result Based Financing (RBF)
- Collaboration with UNCDF/Cleanstart partners such as Sana Kishan Bikash Bank Limited for the promotion of Mud/Metallic Improved Cooking stoves through credit financing
- Collaboration with Rural Technology Producers Association Nepal (RUTPAN) for the promotion of Metallic Improved Cookstoves
- Collaboration with Child Nutrition Programme for dissemination of earth quake relief packages of portable improved cookstoves
- MOU was signed between Armed Police Force (APF) and AEPC on 29 March 2015 for providing technical support on institutional biogas plants. As of now, 20 no of such plants are studied and are under pipeline for construction.

#### 4.7 Major deviation of key activities and adjustment plan

Major deviations of key activities	Reasons for deviations	Adjustment plan
Produce knowledge product and dissemination (case study booklet) related to GESI Unit	Success stories compiled from all RSC. Editing, proofing, layout design has been completed but due to freezing of the Program fund, the publication could not be materialized at the last moment.	Publication will be done in next FY
Partial completion of skill development training to enhance skill of selected participants to grow them as barefoot technician for the placement of barefoot engineering works under RET catchment area	Some participants drop the nominations showing the upcoming peak farming season. Some women participants withdraw the nomination demanding the additional facilities (child care and provision of baby sitter) Initially, 38 participants join the training but after the devastating earthquake of 25 June 2015 and repeated aftershocks, only 20 participant could complete the training program	The activity will be continued in coming FY

Major deviations of key activities	Reasons for deviations	Adjustment plan
IGA grants for 3016 IGA plans could not not be released	The budget was freezed by the donors in June, 2015.	Need to allocate additional budget in FY 2015/16
Implementation of capacity Develop Plan	Concept note, strategy for implementation and capacity building package were prepared for this activitiy with close coordination of MoFALD. However, this activity scheduled for 3 <sup>rd</sup> trimester was postponed due to earthquake and the budget under this heading was transferred to the prime minister's relif fund.	This is expected to be completed within the first few months of next FY.
Support for internalization of DEECCS through collaborative approach with MoFALD/LGCDP/ADDCN/P AF/NAVIN	The proposed activity could not be completed due to program budget freeze.	This acitivity will be conducted in the 1 <sup>st</sup> trimester of the next FY
Strengthening Functional Linkage between DDC and RSCs	One functional linkage workshop was conducted, and the remaining two were scheduled for 3 <sup>rd</sup> trimester, which was affected by the earthquake.	The workshops will be conducted in the next FY year.
Piloting of concentrated solar power system	Due to recent earthquake the process was halted for one month and contracting part could not be initiated. The process was delayed because of revision of grant guideline. Later the budget was reallocated for relief package for earthquake victims.	This activity will be carried out in AWP 2015/16.
Solar thermal human resource training	This activity was cancelled as the budget was reallocated for relief package for earthquake victims.	This activity will be carried out in AWP 2015/16.
Feasibility study of solar thermal applications	The acitivity was planned in last trimester but it had to be cancelled as the budget was reallocated for relief package for earthquake victims.	This activity will be carried out in AWP 2015/16.

<b>Major deviations of key activities</b>	<b>Reasons for deviations</b>	<b>Adjustment plan</b>
Online database of PVPS system	Technical consultation was completed with the in-house IT unit and some external experts. But due to recent earthquake followed by freezing of the fund, the process was halted	This activity will be carried out in AWP 2015/16.
Operator training of PVPS	Proposal was called but because of freezing of the fund this activity was postponed.	This activity will be carried out in AWP 2015/16.
Level -1, Level -2 and Solar PV Design Engineers training	Proposal was called but because of freezing of the fund this activity was postponed.	This activity will be carried out in AWP 2015/16.
Purchasing battery test equipment for RETS	The tender had been called and the successful bidder was selected. The bidder had already submitted its acceptance letter along with the performance bond. Because of freezing of the, this activity was postponed.	This activity will be carried out in AWP 2015/16.
Solar Mini grid at Ramite Khola, Morang and Bhorleni, Makwanpur.	The tender for Bhorleni project had been called but because of the time taken for revision of grant guideline the project implementation was delayed; and also because of freezing of the fund in June 2015, this activity was postponed.	The Bhorleni project has been transferred to Wind Energy Component and the Ramite Khola Project has been transferred to SASAEC.
Target set by biomass subcomponent not achieved in DDC implemented 49 districts	Delay in transferring fund to DDC/DEECCSs	DDCs have been asked to conduct activities as per urgency and importance
Indoor Air Pollution (IAP) Free declaration target not achieved	Required budget was not released on time	RSCs has been advised to conduct in next FY

Major deviations of key activities	Reasons for deviations	Adjustment plan
Third-party monitoring could not be concluded in the reporting year	<ul style="list-style-type: none"> <li>• Delay in deploying the consultants to the sites, which was caused due to substantial time taken in obtaining the necessary documents from REF store records, which are to be provided to the monitoring consultants before field deployment.</li> <li>• The devastating earthquake occurred when the field verification was in good progress. The workforce deployed in the field returned to their homes; and the work could be resumed after a substantial time gap.</li> </ul>	It has been planned to conclude the task in the early months of the next FY.
POHV of (out of the planned 140 MHPs) could not be completed. Moreover, report of 10 POHV completed MHPs could not be concluded in the reporting year.	<p>POHV work was hampered by the devastating earthquake of 25th April and 12th May.</p> <p>The reports for the two field trip having 10 projects (Khotang-5 projects &amp; Jajarkot-5 Projects) could not be concluded as the concerned POV Inspector's house was damaged by the earthquake.</p>	<p>POHV of remaining MHPs are planned in the next FY.</p> <p>The remaining report will be concluded in the next FY.</p>
Finalization of RE subsidy Policy could be made in the reporting year	<p>Serious of internal discussion on policy draft were held internally which consumed a lot of time. On the top of that the massive EQ and subsequent freezing of fund by NRREP lead DP suddenly changed the programme focus which further delayed the process.</p>	Anticipated to be completed in the first month of next FY

## 5 Integration of other RE interventions with NRREP

### 5.1 Clean cooking solutions for All by 2017

An ambitious mission “Clean Cooking Solutions for All by 2017 (CCS4ALL)”, originally announced by GoN on 20<sup>th</sup> January 2013 while celebrating Renewable Energy Week 2013, has been incorporated as “Clean Cooking and Lighting Solutions for All by 2017” in Government’s Policy and Programme for Fiscal Year 2071-72 and the GoN Budget Speech for FY 2071-72. Private sector development and the quality stove dissemination becomes an integral part of the component to meet the goal set by this mission. Following accomplishments have been made in this regard after current fiscal year’s budget announcement:

- A discussion meeting was organized with the relevant partners and programme implementers on 30<sup>th</sup> July 2014 at AEPC for possible collaboration in achieving national target of 800,000 ICS announced by GoN through Budget Speech. As a result, reporting of progress on ICS achieved partners outside of NRREP is streamlined.
- GoN has approved some additional funds to deliver portable metallic stoves as a part of relief package to the households affected by earthquake.
- Earthquake relief works and progress were discussed among the members of Nepal Alliance for Clean Cook stoves (NACC) Leadership Council on 10<sup>th</sup> July 2015.
- CCS4ALL has been incorporated into the “Framework for Energy+ Cooperation with the Government of Nepal towards achieving Sustainable Energy for ALL in Nepal” signed by GoN and DPs.
- Draft proposals on “Scaling up of Improved Cook stoves Programme (SIP) under NRREP Framework & CCS4ALL Initiative” have been prepared with joint efforts from AEPC & SNV.
- A new pilot project named ‘Promoting Enterprises for Scaled up ICS Dissemination (PESID)’ has been started and Short listing of eligible forms for the Capacity Building Agency (CBA) submitting EOI completed. This will have active role of private sector and will be driven by result based incentives.
- A call for proposals has been made for preparation of strategic plans for declaration of IAP free Districts. The preparation of strategic plans of 7 districts will be initiated this year.

In addition, BESC has been consistently working on building partnerships to pave the way for CCS4ALL. Few important achievements in this regard are as below:

- The GoN and World Bank have agreed and initiated collaboration in Nepal’s clean cooking sector through Developing Improved Solutions for Cooking (DISC), a technical assistance program under the country action track of the Sustainable Energy for All (SE4ALL) initiative. DISC activities have been outlined under the broad areas of Product Development, Business Model Development, Monitoring and Evaluation, and formulation of Investment Prospectus and are incorporated within the Annual Work Plan of BESC/NRREP for Fiscal Year 2014/15.
- GIZ/NEEPII support aims to improve framework conditions for quality enhancement of ICS & IICS (Improved Cook Stoves & Institutional Improved Cook Stoves) and thus have been supporting to testing at Renewable Energy Test Station (RETS).

BESC has also adopted clustered approach to collaborate with different partners and stakeholders. ICS Program with Carbon Finance (ICF Program) being implemented by SNV in 7 hill districts of the far western region, Smokehood project run by Practical Action in Dhadhing, Nuwakot and Rasuwa, Stove promotion program implemented by Swostha Chulo Nepal (SCN) in different districts and recently launched project ‘Promoting Women-led Enterprises for Energy Access and Local Production (WEE-

Nepal)' by CRT/N and consortium in Khotang, Udaypur and Sindhuli are a few important ventures to mention.

## 5.2 RE Source

- RE-Source website and online database system [www.re-source.org.np](http://www.re-source.org.np) has been updated regularly. In this period, RE-Source had registered 61 CDS suppliers and 67 CDS demanders in its website.
- In order to create CDS demands at local level 6 Market Sensitization Events were 45akalu45nt by RE-Source Hubs in Kathmandu, Taplejung, Jhapa, Bardibas, Terhathum and Dhangadi reaching to 275 suppliers and demanders. The events were focused to make people aware on RE-Source working modality and support provided for capacity development. In addition, RE-Source has been continuously supporting CDS demanders in fine tuning and articulating their demands. RE-Source also supports them to upload their demand in website. These events have resulted in creating demand of 30 new CDS. These CDS demands are mainly for marketing, human resource development (skill trainings, accounting/taxation), RETs promotion etc. However, these demands are not selected as per the suggestion of evaluation report and SNV.
- According to the demand of RE-Hubs, RE-Source, one day orientation for 17 RE-Hubs' team leaders on modality of RE-Source, Demand Articulation and HR Management in July, 2014.
- In order to address the issues raised during the interaction programme with CDS providers, two training on public procurement act and rules was conducted for CDS providers in July, 2014. The main objective of the training was to provide knowledge on public procurement act and rules so that they can comply with it. The first day of training was targeted for higher management and second day of training was targeted for mid-level staffs responsible for handling contract and procurement activities. Total 42 participants attended the training programme.
- Call for expression of interest for the standing list of Local Capacity Development Service (LCDS) providers was conducted. Altogether, 38 organizations have shown interest in providing various CDS services.
- In addition to selected 13 CDS projects in fiscal year 2013/14, 8 new projects have been approved by Project Selection Committee in 2014/15. However, only 8 projects were implemented out of 21 projects during the period. All together NPR 10,572,007.00 including cost sharing of NPR 3,525,560.00 (which is 33% of total investment) from various public, private and development partners have been invested. Remaining projects were parked according to the recommendation of evaluation and SNV.
- Early 2014 AEPC and SNV decided to undertake a mid-term review of aspects of RE-Source including the conceptual framework, focus areas, implementation, modality and chart out effective road map. The decision was endorsed by the management committee meetings held during 7<sup>th</sup> June 2014. Hence, a review was conducted to see whether the implementation is going in the right direction and to recommend practical actions and approaches in charting out a road map or strategic plan that leads to effective implementation and sustainability. In this context, an international consultant Mr. Fons Van der Velden was hired by AEPC and SNV. The review was based on literature review, interviews with concerned stakeholders including SNV and AEPC, stakeholder consultation workshop (20<sup>th</sup> August, 2014), debriefing to AEPC and SNV team, preparation of draft report and 45akalu45ntati with the final inputs of AEPC and SNV. The evaluation recommended for focusing on one or two value propositions for private sector service providers of one or two renewable energy technologies (RETs) in a sub-national initially confined to one geographical area and that have a good potential in terms of entrepreneurship (social) development and procedures for monitoring & evaluation, learning and knowledge development are put in place. Furthermore, it was strongly recommended 45akalu45ntation of RE-Source to achieve its goal. Considering the inputs of evaluation, SNV Nepal and AEPC have jointly developed new concept

note and formulated strategy paper including implementation plan for market-led CDS. Both documents have been endorsed by SNV. This has resulted in securing additional Euro 28,000.00 from SNV Head Office for AEPC/RE-Source. The re-structuring of RE-Source is underway. Furthermore, the evaluation also provided recommendation for an exit strategy regarding SNV Nepal's involvement from the end of December 2015. The concept note and strategy paper including implementation plan will be submitted to 4<sup>th</sup> Management Committee Meeting for endorsement.

- One day orientation for RE-Source staffs on overall management of programme, work division/roles and responsibilities of staffs, clarification on programme modalities etc. was conducted in July, 2014.
- The 4<sup>th</sup> management committee meeting approved the concept note, strategic plan and annual work plan-2015 on February 26, 2015.
- According to the approved new strategy and annual workplan, Clean and Green Nepal Pvt. Ltd, Thapathali, Kathmandu is selected as an Implementing Partner of RE-Source through call of RFP.
- Value chain analysis of 3 RETs i.e. Solar PV, Micro Hydro and Biogas is awarded to implementing partner. Inception report has been submitted and primary and secondary data collection is underway.

### 5.3 Other initiatives:

**ENDEV:** The Government of Nepal and German International Cooperation have made an agreement on 02 November 2010 for the Micro Hydro Debt Fund with Euro 1,150,000 as grant under technical assistance of GIZ. The Micro Hydro Debt Fund has been supporting MHPs up to 100kw through the loan financing in Nepal. Two banks namely The Himalayan Bank Ltd. and Clean Energy Development Bank Ltd. are administering the credit to the micro hydropower projects under MHDF. So far, Clean Energy Development Bank has provided loan to 21 projects, amounting over Rs. 39 million. With this, 749 kilowatts have been generated and over 7,300 households have been electrified. Similarly, Himalayan Bank has provided loan to 9 projects, amounting over Rs. 24 million. With this 356 kilowatts have been generated and over 3200 households have been electrified.

**UNCDF:** UNCDF/CleanStart has been supporting four financial institutions viz. ACE Development Bank Ltd., Clean Energy Development Bank Ltd., Jeevan Bikas Samaj and Sana Kisan Bikas Bank Ltd. to carry out Rural Energy Technology financing. The four financial institutions were selected from among other financial institutions after a rigorous selection process.

The RETs that are eligible to be financed are biogas plants, solar home system and ICSs. ACE Development Bank will carry out RET financing through LFIs and therefore will provide wholesale lending to its LFIs. Clean Energy Development Bank will finance RETs through its subsidiary microfinance institution as well as other microfinance institutions. Jeevan Bikas Samaj will carry out RET financing directly to its clients. Similarly Sana Kisan Bikas Bank Ltd. will provide wholesale lending to its cooperatives that then will provide retail financing to its members. An agreement, regarding this, has already been signed. The financial institutions will have to provide credit financing and install the targeted RETs effective from April 16 2014 to April 15 2017.

ACE has to provide credit financing and install 12200, CEDBL has to install 22463, JBS has to credit financing and install 39465 and SKBBL has to provide credit financing install 28070 RETs for the entire project duration. ACE has provided credit financing and installed 12200, CEDBL has provided credit financing install 22463, JBS has provided credit financing install 39465 and similarly SKBBL has provided credit financing installed 28070 RETs.

Some of the important activities, but not limited to, carried out by UNCDF/CleanStart are Study Tour to Sri Lank for probable Handling Bank and Partner Banks of CREF, Business Development Training for Financial Service Providers and Local Service Providers of AEPC/CleanStart, Support for Energy Expo in Sana Kisan Bikas Bank Summit and ICS trainings for members/clients/stakeholders of the partner financial institutions. Activities that are in progress are MIS support for JBS (one of the partner institutions of CleanStart), Institutional strengthening of mini grid cooperatives and Impact Assessment carried out/being carried out by CleanStart using Anroid Mobile by developing apps for the survey. CleanStart will carry out 18100 surveys among the clients/members of the partner financial institutions as part of quantative data analysis.

**UNDP-GEF:** RERL has been focused on off-grid larger RE systems to promote income generating opportunities and a low-carbon development path. Its main strategy includes 4 interrelated concepts: (1) promotion of larger-scale, less-disseminated systems, (2) achievement of private sector financing of up-front costs, (3) achievement of financial sustainability (cash flow for repairs and maintenance), and (4) establishment of productive end uses. Major achievements of this fiscal year are discussed below.

- Relief and Rehabilitation: A large number of micro hydropower plants and solar pumping systems were damaged by the earthquakes of April 25 and May 12 and the after shocks. RERL is supporting CESC to undertake rapid assessment of the damages suffered by MHPs. Likewise, RERL is also working with SESC to assess the damages on solar pumping systems. RERL has prepared a relief and rehabilitation package to support RE systems. The package includes solar PV systems for mobile charging, water sterilization, VDC/DDC buildings, etc.
- Grid Connection of MHP: RERL worked with CESC and RCEMH to prepare and finalize technical specifications for interconnection of MHP with the national electricity grid. The document was discussed extensively with NEA engineers. The specifications were adopted by the NEA board paving way for grid connection of MHP. Two MHPs have been identified for grid connection and they are at the stage of PPA negotiation with NEA. These two MHPs are 23 kW Sauryabhumi, Nuwakot and 40 kW Leguwa Khola, Dhankuta. Both these plants were installed by the communities with AEPC support and faced problems as the grid reached their catchment areas within a short period of completion.
- MHP Mini Grid: CESC, RCEMH and RERL worked together to complete a mini grid in Gulmi district interconnecting the 100 kW Daram Khola and 85 kW Paropakar MHPs. RERL also studied the potential for interconnection of two MHPs in Dhading and several MHPs in Burtibang area of Baglung. RERL has also been providing technical assistance to Kabeli Tranmission Project of the World Bank to finalize the design and cost estimate for establishment of Taplejung Mini Grid interconnecting 7 MHPs.
- Large Solar PV Systems: As mandated in the project document, RERL is working with Solar Electricity Sub Component (SESC) on large PV systems. In this fscal year, a concept note on solar PV mini grid was prepared and AEPC/NRREP/RERL professionals were trained on identifying potential sites using GIS. Detailed feasibility studies of 5 potential sites were carried out by RERL and SESC.

To promote roof top solar, RERL with the sub-component has prepared the draft technical specification, which will be discussed with NEA for grid interconnection. An android application was also developed to calculate the cost of solar systems.

RERL is supporting the Chepang community of Mahadevsthan VDC Dhading to install solar systems including 3 mini grid, 1 integrated water supply and irrigation plant and about 50 solar home systems.



UNDP Country Office Nepal and Gyeongsangbuk – do Provincial Government of Korea have provided financial assistance to DDC Dhading for this project. DFS of mini grid have already been completed and the implementation will begin after the monsoon.

- Mini Hydro: RERL is working with CESC to support Mini Hydro development in Nepal. In this fiscal year, detailed feasibility studies of 5 potential projects were undertaken. They are Phawa Khola, Taplejung; Taman Khola, Baglung; Bom Khola and Manjo Khola, Solukhumbu and Kailash Khola Achham. Public Private Partnership framework for developing mini hydro in Nepal was prepared.
- Productive End Uses: RERL supported PEUC to orient officials of Small and Cottage Industries Development Board (CSIDB) on AEPC's support for micro, small and medium enterprises utilizing renewable energy. CISDB and AEPC have signed MoU to work together to promote rural enterprises. RERL also supported in training women entrepreneurs on enterprise management. Skill based trainings were provided to rural entrepreneurs from MHP catchment areas on bakery, computer, tailoring, etc. All together 74 women and 80 men benefitted from these training activities.

RERL and PEUC are undertaking innovative activities. A study was conducted to identify and promote rural enterprise clusters in MHP catchment areas. Likewise, RERL supported to fabricate a Lokta boiler using electricity generated by MHP.

- Micro Hydro: A training was organized for private companies involved in micro hydro development on installation to support in standardization of MH installation. 20 technicians from different companies were trained.
- Quality Assurance: RERL supported MQA Unit to develop quality assurance mechanism for monitoring mini hydro and large solar PV systems. The mechanism will be implemented by MQAU in the coming fiscal year. When implemented, quality assurance of the total system will be ensured. RERL is also supporting MQAU and CESC to prepare sustainability framework of micro hydro.

**UNESCAP:** United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in partnership with International Fund for Agriculture Development (IFAD) intends to implement a project called "Leveraging Pro-Poor Public-Private-Partnerships (5Ps) for rural development -Widening access to energy services for rural poor in Asia and the Pacific" and "Enhancing and improving access to energy services through development of public-private renewable energy partnerships". In Nepal, with the support from UNESCAP, the concepts of Pro Poor Public Private Partnership are to be piloted in two sites. The major objective of this approach is to pilot the private sector investment in RE projects. It coordinates with NRREP activities for piloting new ideas and approaches towards RE promotion. The followings are the progress of the 5P project in this trimester period:

#### **Dubung, Tanahun**

- Developed business plan and financial structures for carrying out 18 kW Solar-mini grid
- The Community Users' Group now organized informally as the Village Electricity Committee (VEC) is in the process of registration as a cooperative under the laws of Nepal; the cooperative will be named "Dubung-Mauribas Grameen Urja Bikas Shakari Sanstha Limited" (Co-op).

- An Special Purpose Vehicle (SPV) as "Baidi Micro-Grid Private Limited" (BMPL) with Registration Number: 127759/071/72" was registered as per the agreement between AEPC and SUN which recognizes the need to establish a special purpose vehicle (SPV) to own and operate the solar micro-grid, with co-ownership and the maximum participation of the village community. This BMPL is jointly owned by Saral Urja Nepal (SUN) and Village Electricity Committee (VEC) of Dungung for now. The proportion of share for SUN and VEC is in the ratio of 60:40.
- In order to facilitate the process of project implementation and other activities another agreement between AEPC, SUN and VEC was signed as per the recommendations provided by UNESCAP. It includes the overall project update including the activities completed till now, activities in progress and the activities to be carried out in the future till commissioning and after that. Also, it covers the procurement process and mode of payment, monitoring and reporting and the operation and management of BMPL.
- Based on the new agreement between three parties, the construction of power house, house wiring, transmission lines, procurement of the equipment such as solar panels, batteries, inverter, meters have been completed.
- The Solar mini-grid has been anticipated to be completed by the end of September 2015.

**SREP:** SREP seeks to deliver two primary categories of benefits from the use of its financial support: (i) increased access to renewable energy and (ii) increased production of renewable energy. The proposed SREP project will seek to benefit large off-grid biogas plants where sponsors are commercial enterprises or municipalities. *Commercial enterprises* (farms, distillery, fruit processing plants, poultry hatcheries) that are currently spending large amounts of money and managerial effort in non-core activities such as procuring diesel for backup power generation—due to the dismal state of the grid—will be one sub-group of project beneficiaries. *Municipalities* that are able to partner with private entrepreneurs bringing technology to invest in waste to energy sub-projects, may be able to generate localized biogas for commercial heating applications. Municipalities and the destitute who may be helped by these energies generated from municipal waste will also be potential beneficiaries.

The World Bank under Scaling up Renewable Energy Program (SREP) is supporting Alternative Energy Promotion Centre (AEPC) to develop market for large scale Commercial Biogas and Municipal Solid Waste (MSW) to energy projects in Nepal and its activities are fully incorporated under Biogas Sub Component of NRREP. SREP is expected to contribute on achieving NRREP targets of large biogas plants especially commercial biogas plants and waste to energy projects (MSW biogas plants). SREP funding will be provided to reimburse AEPC's contribution after the plant (commercial and MSW plants) is constructed and operational, and is producing energy as certified by an Independent Verifier. The total grant amount of SREP under Extended Biogas Program is 7.9 million dollar.

- Results expected are off-grid biogas generated from large plants (over 12 m<sup>3</sup>) and off-grid biogas based electricity generated.
- Intermediate results expected include (i) Number of large biogas proposals submitted for investment evaluation (prospects); (ii) Number of companies trained to evaluate and appraise large biogas sub-projects; and (iii) Number of Off-grid biogas and/or electricity generation plants created & made operational by the project.

A few achievements of SREP project till July 2015 are as follows:

- Feasibility Study on Biogas use in Transport Sector and WtE Project in Biratnagar Sub-Metropolitan City is completed.
- AEPC/NRREP to support 570 commercial and 30 Municipal Based Projects to be provided within 2019.
- The Feasibility and Detailed Feasibility Study Guidelines have been finalized and validated.
- Environmental management framework and social management framework have been prepared and validated.
- A Biogas Calculation Tool to assist consultants on the outline design and financial analysis of projects has been prepared.
- 4 rounds of trainings on FS/DFS for pre-qualified consulting firms have been given and 3 rounds of construction training on large biogas have been conducted.
- The SREP Results Framework for large biogas plants has been prepared.
- Finalization of Reporting Format to CREF
- Project Operation Manual (POM) prepared.
- Promotional Strategy has been prepared.
- Launching Event of SREP Extended Biogas was conducted with a grand event in February 3,2015
- Detailed Mapping for Nepal's potential in WtE in commercial and municipal sector is to begin soon. RFP has been circulated after evaluation of EOI.
- Conduction of feasibility study in Vyas Municipality currently ongoing.
- A dedicated website ([www.w2ebazaar.org.np](http://www.w2ebazaar.org.np)) for online application has been launched. This website will act as a resource for interested developers as well as technology providers for biogas.
- A technical review committee for SREP has been formed and all members have been recruited.
- 47 applications (biogas plants) are being processed at the moment.

**SASEC:** Climate Investment Fund (CIF/SREP) through Asian Development Bank/“South Asia Sub-regional Economic Cooperation - Power System Expansion Project (SASEC Project)” is supporting off-grid renewable energy sector for 4.3 MW Mini-hydro and 500 kW capacity solar or/and wind hybrid projects. The Government of Nepal and ADB signed for this support on 11th July, 2014 for five years period. SASEC off-grid Power System Expansion Project is to contribute achieving NRREP target and being aligned within its framework. The implementation period of the project is estimated from January 2015 to December 2021. The project will enhance renewable energy development in the country by installing 4.8 MW of mini grid power system through the provision of (a) a credit line of \$5 million from ADB's Special Funds to user communities for mini-hydro power plants and (b) a \$11.2 million grant (10 Million+1.2 million) from the SCF administered through ADB. The physical investment will be reinforced and supplemented by capacity building support to AEPC, including project management support, preparation support for distribution system/rural electrification master plan and feasibility study of utility level wind farm, and parallel livelihood development activities in the project area. The activities of SASEC are incorporated in to the respective sub components/units of NRREP.

Following are the achievements of SASEC:

- (a) One of the attainments under SASEC off-grid component lies under the Nepal Government's objective to support post disaster action by supporting earthquake victimized rural community. In this regard, AEPC/SASEC decided to distribute solar lighting/mobile charging systems to five most

affected districts. Contract has been signed for the procurement of 1,500 numbers of portable solar powered lighting/mobile charging systems. The solar systems are intended to distribute to the earthquake victimized rural communities of Nepal. SASEC project administration manual (PAM) has been revised to include this procurement (ADB shopping) package.

- (b) A request for quotation (RFQ) and technical specifications of two wind met mast systems have been prepared. Accordingly, RFQ notice was published on 30-June-2015 for the bidding process. This activity is one of the major activities under the SASEC “AEPC capacity development and feasibility study of large scale wind farm”. The SASEC component in coordination with the AEPC Wind Energy component is implementing in two potential sites.
- (c) Contract agreement is signed with nine Regional Service Centers (RSCs) for social mobilization support to AEPC/SASEC projects. AEPC/SASEC with the consent from ADB has decided to mobilize the existing RSCs for the social mobilization service of SASEC project applying single sourcing approach. All nine RSCs have been working as local implementing partners of RE projects and programme under AEPC/NRREP
- (d) AEPC/SASEC project implementation unit (PIU) in joint collaboration with NRREP has conducted one day orientation program to all nine Regional Service Centers (RSCs) on 7-June-2015.
- (e) Four National Experts have been recruited as project implementation consultants (PIC). The Renewable Energy (Solar/Wind) Expert, Procurement Expert, and Monitoring & Evaluation Expert have been recruited and mobilized from 15 May 2015, and Mini-micro Hydropower Expert has been recruited and mobilized from 2 June 2015.
- (f) The project site identification and selection is under process. In this regard, field visit to 4 mini-micro hydro potential sites and 2 mini-grid solar project sites plus 2 wind energy study sites was made by PIU. Likewise, site assessment from the previously studied AEPC programme and projects is being carried out by AEPC/SASEC in coordination with AEPC/NRREP and AEPC/RERL. In order to list out the potential candidate sites for the project implementation, SASEC/PIU has Identified 31 mini-hydro projects sites and 20 mini-grid solar and solar wind hybrid project locations for further assessment in the selection process.

**Kabeli Transmission Project:** The World Bank (WB) is supporting Government of Nepal (GoN) for implementation of Kabeli Transmission Project (KTP) in eastern Nepal since 2011. The project consists of three components: Component 1- Kabeli Corridor 132 kV Transmission Line, Component 2- Community-Based Rural Electrification-Grid Extension, and Component 3- Rural Enhanced Energy Services (REES). The KTP Components 1 and 2 are being implemented by Nepal Electricity Authority (NEA). The KTP/Component 3 is being implemented by Alternative Energy Promotion Centre (AEPC), has been designed for expansion of energy services to village communities in the Kabeli Transmission Corridor in Ilam, Panchthar and Taplejung districts. The subsidy is provided following the GoN Subsidy Policy, and is channeled through the District Energy Fund. AEPC’s activities are limited to communities that will not benefit from distribution lines developed under KTP/Component-2. Till date, 227 toilet attached biogas plants, 180 solar PV home systems and 9 institutional solar PV systems in schools have been already installed in Ilam and Panchthar districts and Taplejung local grid system development is in the progress. Isolated 8 micro/mini hydro power projects total capacity of 776 kW will be synchronized into the Taplejung local grid system which surplus electricity will transmit to the district headquarters of Taplejung district as this district is not yet connected to national grid.

## 6 Review of Problems, Challenges and Lesson Learned

### 6.1 Main implementation related problems experienced in the reporting year and solutions made:

Operational Challenges faced	Solution made
<p><b>1. Issues related non-compliance in ISPS installations</b></p> <p>According to findings of compliance unit report there has been serious issues related to procurement, contributions from users and technical installations during the implementation of ISPS. Cases of collusion where a non-competitive agreement between rival companies attempts to disrupt the market's equilibrium (e.g. agree to increase the product's price in order to maximize profits) by collaborating with each other were also identified.</p>	<p>AEPC developed an action plan to respond to the findings in the report. The action plan included to investigate both internal and external errors. Internal investigation which aimed to explore mistakes from AEPC/NRREP has completed and actions have been taken as recommended by the report. AEPC/NRREP has also imposed realization fee/penalty and suspension/disqualification to companies to settle their respective ISPS deviations. In addition to the dedicated efforts in solving external and internal issues on ISPS, other major actions like cancellation of PQ, adoption of PPA/PPR and revising technical and implementation guidelines have taken place. Negotiation with SEMAN and Individual companies were initiated by AEPC/NRREP to decide on the size of penalty and suspension period depending on the number of deviations in each of the individual companies.</p>
<p>2. Promotion and achievement of target of solar thermal application: The private sector show very low interest and motivation in promoting solar thermal application under the current subsidy policy and delivery mechanism.</p>	<p>Interaction with PQ companies on present hurdles of market structure, inputs requested from experts and the collected inputs have been forwarded to subsidy revision committee to incorporate in new policy.</p>
<p>4. The current subsidy delivery mechanism for ISPS was felt to have loop holes and not sufficient to ensure market competition.</p>	<p>Development of technical and implementation guidelines is in progress. The technical guideline and project implementation guideline is in final stage of approval.</p>
<p>5. Government announced subsidy for solar irrigation project but there was no subsidy policy and subsidy delivery mechanism for implementation of these systems.</p>	<p>In draft subsidy policy and delivery mechanism revision, provision for solar irrigation system has been proposed.</p>
<p>6. Existing subsidy delivery mechanism has resulted low promotion of solar cooker and dryer .</p>	<p>Revision of subsidy policy and delivery mechanism is proposed including new solar thermal application and provision of subsidy for urban areas.</p>

Operational Challenges faced	Solution made
7. Lack of special provision (child care/ financial support) to motivate women participants in long duration vocational training programs	Need to add special provisions/approval from management to motivate women participants. During a 3 month long vocational training, the women participants (accompanied with their children) demanded baby sitter provision and additional financial support for child care. These provisions are reasonable as per preliminary assessment carried out by the GESI Unit.
8. Delay in procurement and approval process due to which assignment of vocational training was started late.	Contracting procedure will be expedite within the framework of PPA or Grant guideline
9. Transfer of subsidy for micro enterprises from DDC to LEDC account is taking long time	RSCs are regularly coordinating with concerned DDCs.
10. DEECCS not fully internalized by some DDCs and EEOs.	Regular interaction with MoFALD, MoSTE, DDCs is being made for internalization of DEECCSs.
11. Initially, in AWP-2014/15 Business Group Development Fund (BGDF) was allocated only for 94,500 ICS/IICS while actual target was 250,000. High target was set taking National Goal – CCS4ALL into account. The information of required budget to RSCs was clearly communicated that it will be allocated in revised workplan and which was allocated under this heading in revised AWP-2014/15 and same was reflected in addendum done with RSCs. However, required budget could not be released to RSCs due to freezing of the program fund. It has created a huge problem at field level. The actual physical achievement of FY-2014/15 made by BESC direct implementing partners is 281,469 which has exceeded the set target. Thus, there is deficit of NPR. 22,677,160 equivalent to 206,156 numbers of ICS/IICS.	This problem has been communicated to Outreach subcomponent and Senior Management of AEPC/NRREP.
12. Biogas Energy Subcomponent is executing on much lower budget than actually required for the national campaign of CCS4ALL	Information has been continuously shared with AEPC/NRREP management along with possible external partners including DDCs.

## 6.2 Emerging operational challenges

Emerging Operational Challenges	Possible Solutions
1. Turnover of RSC staffs	Authorized RSCs for the placement of the staff
2. The project life after the warranty period of two years is the challenges for PVPS and ISPS systems	The maintenance support should be given and the maintenance support should be 50% of the maintenance cost. <i>(As per the Subsidy Delivery Mechanism, 3% of the subsidy amount is deducted at the time of subsidy payment and is provisioned for repair maintenance which is provided to users after completion of warranty period)</i>
3. As the number of SHS to be supported has increased, the load in SAF processing has significantly increased causing the current NAV database as bottleneck for subsidy processing team.	Management has to purchase additional 5 NAV user license for subsidy processing team.
4. Demand creation for solar dryer and cookers is very much challenging	MoU with poverty alleviation fund, National Trust for Nature Conservation, International Organization for Migration may help to create demand. Further, mobilizing DEECCS/RSCs may create more demand of Solar thermal systems. In addition, incorporation of subsidy in urban area on upcoming subsidy policy for solar thermal system is expected to create huge number of demands.
5. Lack of database for PVPS/ISPS.	Management has decided to develop database for PVPS/ISPS.
6. Current ISPS Implementation modality	Current implementation practice of ISPS has been heavily exposed with various technical and policy errors. New implementation and technical modality is being developed based on lessons learned from previous projects.
7. Difficult to settle sick / uncompleted MHP projects, national grid reached project	Provision of Additional financial support, T & C of project as per actual power output and HHs connected and disbursement of subsidy accordingly. Further, strengthen coordination with NEA.
8. Delay in receiving pico hydro project proposal from DDCs. Only 1 proposal has been received from Morang district (DDC) in this fiscal year.	Regular follow-up with DDCs will be made.

Emerging Operational Challenges	Possible Solutions
<p>9. Though the GoN incorporated ambitious mission: “Clean Cooking and Lighting solutions for All by 2017 (CCSL4ALL)” in Government’s Policy and Programme for Fiscal Year 2071-72, the budget has not been incorporated for implementing sufficient activities to achieve this goal. The ICS target set and budget allocated under NRREP are quite lower compared to the national targets announced under CCSL4ALL initiative.</p>	<p>Upward revision of ICS target and allocation of additional budget/resources for implementing activities to achieve the goals set by CCSL4ALL mission.</p>
<p>10. In 49 mid-hill districts, DDC-led approach was adopted with the expectation that biomass energy related activities will be integrated in DDCs’ mainstream planning process and thus there will be allocation of funds from DDCs’ budget as well. However, real scenario in most of the districts has not been found encouraging.</p>	<p>Continous dialogue with DDCs to seek higher level of commitment from them is necessary. Preparation of strategic plans in some selected districts to declare them IAP free would be really a good initiation in this direction.</p>

### 6.3 Lesson Learned in this year:

- Systemic and Procedural lapses in RET subsidy delivey processes have been indentified through NRREP internal audit. Along with various RET wise target achievement, close monitoring of RET installations and to see if they follow the quality standards and have been installed following the due norms and procedures is very vital. There is huge gap between the NRREP targets set in the program document and GoN targets especially in RE technologies. This situation should be reviewed before start of the annual planning process.
- There seems huge financial gap to deliver program targets. Therefore, necessary resources should be managed on time to avoid future financial risks.
- Recommendations of compliance audit report should be implemented in systematic ways by incorporating necessary actions into the annual plans so that there will be enough budgets and responsible unit/person to address them.
- The AEPC/NRREP decided to adopt PPA/PPR guidelines fully for its procurement purposes and it is smoothly and fully implemented with the establishment of procurement unit.
- Use of modern electronic tools such as capturing field data through mobile application is successfully piloted that has potential to replicate for monitoring.
- Key dates of planning process (which are mandatory) and Streeing committee (plan approving authority) meeting dates are not matching properly. This situation has affected particularly the AWP approval process from past. Therefore, pre-planning discussions with relevant partners and stakeholders have



been initiated from FY 2014/15. This needs to be further fine tuned and the steering committee meeting should be organized accordingly addressing this managerial issue.

## 6.4 Status of NRREP risks perceived in Program Document

Following matrix is a comparison of risks perceived in the program document and the situation of risk/. Major risks are still pertinent.

Risks areas perceived in PD	Mitigating measures	Current status
<b>1. Slow implementation of reforms to make AEPC autonomous</b>	<ul style="list-style-type: none"> <li>• Expedite the process to approve the bill from parliament</li> <li>• Only start capacity building of AEPC when autonomous status is achieved.</li> </ul>	<ul style="list-style-type: none"> <li>• Still a risk. The autonomous status of AEPC depends on the passing of the “Bill for establishment and operation of renewable energy board” by the cabinet. Cabinet has approved the bill but Ministry is yet to submit in the parliament.</li> </ul>
<b>2. Mandate to cover small hydropower up to 10 MW will direct attention away from community electrification.</b>	<ul style="list-style-type: none"> <li>• Stringently follow-up on the NRREP targets for community electrification</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted the study on the current status of the small hydro power projects up to 10 MW to explore the possible interventions of AEPC</li> <li>• Conducted the national level workshop on mini hydro development challenges and prospectus</li> <li>• Drafted mini hydro white paper</li> <li>• There is a firm understanding of focusing on projects below 1 MW for the time being, and the CE Sub-component is very cautious on trying to reach the NRREP target in this area.</li> <li>• SOD is updated and forwarded to ministry for the approval.</li> </ul>
<b>3. Overlapping programs/projects in renewable energy sector</b>	<ul style="list-style-type: none"> <li>• AEPC will timely raise the issue and settle as appropriate</li> <li>• Signing Code of Conduct between GoN, JFA partners and non-JFA partners</li> </ul>	<ul style="list-style-type: none"> <li>• Still a risk. Even though the concept of NRREP as a single programme modality is being recognized, there is still the risk that development partners and GoN can be tempted to design and implement RE programmes to cater their own objectives irrespective of NRREP</li> </ul>
<b>4. The GoN commitments to revise the subsidy system and to provide a larger portion of the subsidies for RETs</b>	<ul style="list-style-type: none"> <li>• AEPC will remind GoN to fulfill the commitments on time.</li> <li>• Continued negotiations on the matter between GoN and DP’s</li> </ul>	<ul style="list-style-type: none"> <li>• GON revised subsidy policy and AEPC revised subsidy delivery mechanism</li> <li>• GoN’s disbursement to subsidy in first and second project year has been lower than projected in Programme Document</li> <li>• Review process of the subsidy system has been started</li> </ul>

Risks areas perceived in PD	Mitigating measures	Current status
<b>5. Slow establishment of CREF</b>	<ul style="list-style-type: none"> <li>• AEPC will continuously follow-up to expedite the process</li> </ul>	<ul style="list-style-type: none"> <li>• CREF Financial Intermediation Mechanism has been approved, selection of handling bank and partner banks completed and secretariat established at Handling Bank</li> <li>• CREF came into its full fledged operation from 1<sup>st</sup> April 2015.</li> </ul>
<b>6. Subsidy to RETs potentially distorting the market and encouraging market inefficiencies, including increasing RET prices and provide less incentive for suppliers.</b>	<ul style="list-style-type: none"> <li>• Establishment of new subsidy delivery and controlling mechanism</li> <li>• Revised subsidy delivery mechanism to delivery processes.</li> </ul>	<ul style="list-style-type: none"> <li>• Serious issues of non-compliances in ISPS installation were observed by NRREP internal audit. Procedural and system flaws were also indentified. Currently, the issues of penanlities and possible length of suspension to the defaulting solar companies are being settled through negation with individual companies. Still a risk.</li> <li>• With the current blanket approach in the subsidy, e.g. in solar home systems, indications of market inefficiencies like price increase have been observed.</li> <li>• In Community Electrification SC the compulsory information sharing with supplier’s association has been removed to avoid cartelling and increase competition</li> <li>• Review of the subsidy mechanism to address market inefficiencies and make it more targeted in upcoming revised subsidy policy.</li> </ul>
<b>7. Fiduciary risks for Public Financial Management in MoEnv, MoFALD and AEPC, and risk of corruption.</b>	<ul style="list-style-type: none"> <li>• Ring-fencing</li> <li>• Financial and procurement oversight</li> <li>• Value for money audits</li> </ul>	<ul style="list-style-type: none"> <li>• Still a risk</li> <li>• With the establishment of a Compliance Unit in NRREP, the awareness on these issues is higher both within AEPC and with its partners and stakeholders</li> <li>• Increased numbers and targeted audits being implemented by compliance unit</li> <li>• Procurement unit has been established and AEPC/NRREP decided to follow government PPA/PPR system.</li> </ul>
<b>8. While Nepal will be a federal state the implications for the institutional set-up within the country will remain unclear for some time.</b>	<ul style="list-style-type: none"> <li>• Adjust NRREP to a changed national institutional set-up</li> </ul>	<ul style="list-style-type: none"> <li>• Still a risk as the future state structure is still not clear.</li> <li>• AEPC completd feasibility study to establish RE hubs at regional levels but no measures being implemented.</li> </ul>

## 7 Annexes

### 7.1 Performance against outputs:

NRREP Outputs		Cumulative Achievements till 2014/15
Output 1.1	The CREF established and operational as the core financial institution for the effective delivery of subsidies and credit support to the renewable sector	<ul style="list-style-type: none"> <li>• CREF has been established as a Financial Management Mechanism.</li> </ul>
Output 1.2	Efficient and effective delivery of credit to RET sector through Banks and MFIs	<ul style="list-style-type: none"> <li>• Handling and partner banks have been selected</li> <li>• So far, 35 MHP have received loan and more than 1,230 kilowatts of power has been generated through credit financing.</li> </ul>
Output 1.3:	Efficient and effective delivery of subsidies to RET sector in close consultation with AEPC	<ul style="list-style-type: none"> <li>• Total subsidy fund mobilized by the end of 3<sup>rd</sup> Programme-year is NRs 5,398.057 million which is 67.9% of total allocated budget for 3 years in subsidy.</li> </ul>
Output 2.1	Scaled up implementation network is in place for biogas – Sector commercialization and GESI and Regional concerns	<ul style="list-style-type: none"> <li>• 66,574 domestic biogas plants subsidized so far serving more than 33% belonging to deprived households.</li> <li>• More than 100 companies are pre qualified and most of the companies are focusing on Mid- and Far-western regions for biogas plant installation.</li> <li>• Initiated the implementation of the Plant Rehabilitation and Efficiency Improvement Project (PREIP) for plant rehabilitation.</li> <li>• Revision of Biogas Owners' Manual and development of information poster</li> <li>• Revision of Subsidy application forms</li> <li>• Development of PQ criteria for companies</li> <li>• Development of scientific PQ criteria for the appliance manufacturing workshops</li> <li>• Development of Household biogas construction guideline</li> <li>• Development of third party monitoring guideline</li> <li>• Revision of Biogas Training Manual</li> <li>• Development of improved schedule of training of masons and supervisors</li> <li>• Development of biogas leaflets</li> <li>• Assessment of efficiency of biogas appliances</li> <li>• Development of methodology of calculating the MRP of biogas plant</li> <li>• Market assessment of biogas</li> <li>• Socio economic impact study of BSP (1992 – 2012)</li> <li>• Pilot of compact kitchen waste urban plants</li> </ul>

NRREP Outputs		Cumulative Achievements till 2014/15
		<ul style="list-style-type: none"> <li>• Successful tests of FRP Biogas digesters</li> <li>• Development of technical specifications, installation and monitoring guideline of FRP</li> <li>• Study and release of local materials for biogas to replace imported materials</li> <li>• Introduction of new model of pressure meter and biogas stove</li> <li>• Successful pilot of digital data capture technology</li> <li>• Plant Rehabilitation and Efficiency improvement project</li> <li>• Established biogas repair and maintenance fund</li> <li>• Development of subsidy forms download system</li> <li>• Development of Business development Service support package for companies</li> <li>• Development of Internal Quality Control Mechanism for companies</li> <li>• Establishment of a Toll Free Number</li> </ul>
Output 2.2	Domestic, community and institutional (large) biogas plants are deployed/established and new biogas (waste digestion, motive power, electricity production) technology is ready for piloting.	<ul style="list-style-type: none"> <li>• Completed preparatory works such as guideline preparation, pre qualification of companies, training, area selection, studies etc to implement Domestic, community and institutional (large) biogas plants.</li> <li>• 20 large biogas plants have been constructed</li> </ul>
Output 2.3	Scaled-up implementation of ICS	<ul style="list-style-type: none"> <li>• Nepal government has declared clean cooking solution for all by 2017 as a National goal and an alliance was formed at national level to support accomplishment of this goal utilizing efforts from all around.</li> <li>• DDC led BESC Implementation modality in place which has imparted more ownership and responsibility to DDCs</li> <li>• 574,437 mud ICS/IICS and 15,409 metallic ICS have been installed</li> <li>• 66 VDCs and 7 IICS clusters were declared IAP free</li> </ul>
Output 2.4	New & improved biomass energy technologies such as enterprise scale stoves, gasifiers and bio-briquetting are ready & field tested	<ul style="list-style-type: none"> <li>• One Pilot plant of Gasifier electrification (11 kWe) at Dang is functional</li> <li>• NIBC standard prepared and under implementation</li> <li>• Design listing of five new improved cooking stoves</li> <li>• Training conducted for bio-briquettes and feasibility study for new gasifier locations.</li> </ul>
Output 2.5 CDM and other carbon market	2.5.1 Update knowledge of evolving rules and regulation in different carbon markets	<ul style="list-style-type: none"> <li>• Networking with different organization for climate change activity.</li> <li>• Emission Reduction Purchase Agreement (ERPA) signed for IWM PoA and ICS PoA with ADB/FCF. Communicating with Korean Environment Cooperation (KECO) for developing</li> </ul>

NRREP Outputs		Cumulative Achievements till 2014/15
instruments are functional and generate revenue.		<p>carbon project on large scale biogas project.</p> <ul style="list-style-type: none"> <li>Supported MoSTE in formulating Low Carbon economic Development Strategy for Nepal.</li> <li>Three MSc students were supported the research grant on topic linking Climate Change with RET.</li> <li>IOE/TU was supported to develop M.Sc. Curriculum on Climate Change and development and the course has been approved.</li> <li>Study on Role of renewable energy technologies in Climate Change Mitigation and Adaptation completed.</li> </ul>
	2.5.2 Develop a well diversified portfolio of projects using different instruments	<ul style="list-style-type: none"> <li>Initiated the baseline study for Waste to Energy and Solar Energy for developing them as carbon project under market/non-market mechanism.</li> <li>Biogas PoA and ICS PoA registered in UNFCCC. 7 CPAs of Biogas PoA and 1 CPA of ICS PoA included, IWM PoA with 1 CPA under validation.</li> <li>Supported 26 districts in preparation of DCEP. Initiated the activity in 10 additional new districts.</li> <li>Assessment and Identification of Potential/Feasible Carbon Project/Program in RE sector is completed.</li> </ul>
	2.5.3 Put in place quality and performance assurance system and monitor continuously	<ul style="list-style-type: none"> <li>Emission Reduction monitoring reports for 4 Biogas Project Activities and Micro-hydro submitted to DOE for verification.</li> <li>Final User Survey reports for 4 biogas project activities and 5 CPAs of Biogas PoA completed.</li> <li>Final report on community benefit monitoring survey for Micro-hydro is submitted.</li> </ul>
	2.5.4 Support external monitoring and verification in effective manner	<ul style="list-style-type: none"> <li>247,506 CERs verified and issued equivalent to gross revenue of 1.95 million USD for 4 Biogas Project Activities and Micro-hydro project.</li> <li>Verification ongoing for 204,657 tCO<sub>2</sub>eq for 4 Biogas Project Activities and Micro-hydro project equivalent to gross estimated revenue of 1.5 Million USD.</li> <li>139,197 CERs verified and issued for Biogas PoA equivalent to gross revenue of 1.25 million USD.</li> </ul>
Output 2.6	A highly developed fraud-proof registration, eligibility-checking and verification system for solar energy systems (SHS, SSHS, ISPS and PVPS)	<ul style="list-style-type: none"> <li>289,523 SHS/SSHS, 527 ISPS and 78 PVPs installed so far serving more than 300,000 HHs belonging to 55% disadvantage HH with 49% female population.</li> <li>Online SAF registration system is developed.</li> <li>Established Panel/Battery Manufacture SN tracking mechanism.</li> <li>Developed and updated technical standards for solar energy technology.</li> </ul>
Output 2.7	Used Battery management introduced and functional, and in compliance with international standard	<ul style="list-style-type: none"> <li>Government has approved ULAB Management Regulation and has incorporated it in Environment Protection Regulation/Act. Under this regulation, Lead Acid battery has been categorized as hazardous waste which requires proper management and disposal.</li> <li>A study done on used battery collection system to establish used</li> </ul>

NRREP Outputs		Cumulative Achievements till 2014/15
		<p>battery collection centers in Nepal.</p> <ul style="list-style-type: none"> <li>• Incentive has been introduced to end users for returning used lead acid batteries. For this battery voucher has been distributed through PQ companies.</li> <li>• An agreement has been signed with Internatoinal Consultant to study on Establishing Battery Recycling plant in Nepal.</li> </ul>
Output 2.8	Some Viable “large Community PV Systems’ are operational	<ul style="list-style-type: none"> <li>• Supported 78 rural solar drinking water pumping projects and 527 rural institutions like schools, colleges, health posts and Radio/FMs.</li> <li>• Revised technical standard and guideline for implementation of Rural Community Based Solar Drinking water pumping project.</li> <li>• Prepared technical and implementation standard and guideline for implementation of Institutional Solar PV System.</li> </ul>
Output 2.9	Solar thermal domestic devices (dryers, others) are ready for the market	<ul style="list-style-type: none"> <li>• Completed preparatory works such as guideline revision, training, feasibility studies etc to implement solar thermal domestic devices.</li> <li>• Successfully piloted an industrial scale solar drier system capacity to dry up 250 kg Lapsi at a time.</li> <li>• Installed 2 large scale solar dryer in Morang and Jhapa.</li> <li>• Installed 212 solar dryers and cookers so far serving 212 HHs.</li> </ul>
Output 2.10	Project management capacity is in place and performing, and number of completed projects increases at a faster rate.	<ul style="list-style-type: none"> <li>• Altogether 88,218 rural households have been electrified through generation of 8601.2 kW power from micro/pico hydro</li> <li>• Recruitment of Mini / Micro Hydro Project Manager’s have been completed and 7 Project Managers have been deputed in MHP sites in 5 RSCs</li> <li>• Project Management Manual for Mini / Micro Hydro Project Manager has been Prepared</li> </ul>
Output 2.11	Community electrification projects better designed with regard to available potential, and operate at a higher load	<ul style="list-style-type: none"> <li>• Standard bidding document for Mini Micro Hydro Projects (EOI and RFP) prepared and circulated to all RSCs</li> <li>• Pico-hydro operation and management training completed</li> <li>•</li> </ul>
Output 2.12	Community electrification technology is scaled-up and is of a higher standard	<ul style="list-style-type: none"> <li>• Final report prepared for turbine testing lab for developing turbine testing facilities and Francis turbine lab Collabration with Kathmandu University</li> <li>• Final report prepared for PQ of MHP manufacturing companies</li> <li>• Detaill feasibility of Thingan Tri-Hybrid Project (connecting MHP, Solar and Wind projects) in Makwanpur is completed</li> <li>• The second local grid in the nation named “Gulmi Mini Grid” successfully completed in collaboration with IMREN project</li> <li>• Assessment of damaged MHPs by earthquake completed for 21 project</li> </ul>
Output 2.13	Improved Water Mills promotion is scaled-up and the technology is of a higher standard	<ul style="list-style-type: none"> <li>• All together 2262 Improved water mills have been installed so far</li> <li>• PQ Extension of LPO and Kit manufacturer companies</li> <li>• IWM efficiency test of different models completed in</li> </ul>

NRREP Outputs		Cumulative Achievements till 2014/15
		<p>collaboration with CES/IOE, Pulckhowk</p> <ul style="list-style-type: none"> <li>• Two batches of IWM installation training completed</li> <li>• IWM end-use promotion training to RSC &amp; LPO completed</li> <li>• Design training to KIT manufacturing company completed</li> <li>• Repair and Maintenance training to LPO completed</li> </ul>
Output 2.14.1-2.14.3	AEPC is recognized as an effective, efficient institution for the promotion and development of the RE sector	<ul style="list-style-type: none"> <li>• RE Subsidy policy and delivery mechanism for renewable energy currently being revised.</li> <li>• AEPC communication strategy and action plan prepared</li> <li>• AEPC IP Policy and Guideline Prepared</li> <li>• Developed NRREP admin and finance guideline got approval and implemented.</li> <li>• Organized individual capacity building activities for AEPC/NRREP Staff</li> <li>• Team building experience in NRREP held</li> <li>• Established a set of planning and budgeting processes and stages through preparation of NRREP planning calendar</li> <li>• NRREP planning tool prepared</li> </ul>
Output 2.14.4	Develop and Implement AEPC Monitoring and Quality Assurance systems for effective result –based management	<ul style="list-style-type: none"> <li>• Monitoring/verification of various RE systems installed with the subsidy support including POHV of pico/micro hydro is in place.</li> <li>• Developed and implemented GESI responsive result-based M&amp;E framework</li> <li>• Good progress achieved so far toward development of functional NRREP MIS with beneficiaries' categorization.</li> <li>• Established and implemented Random Monitoring Mechanism.</li> <li>• Established the programme baseline -2012</li> <li>• Produced periodic progress reports (quarterly/annual).</li> </ul>
Output 2.14.5	AEPC is recognized as GESI responsive institution in promotion of RETs to create employment and generate income through MSME approach to improve living standard of rural women and men	<ul style="list-style-type: none"> <li>• Addendum of GESI concerns incorporated into in RE subsidy policy and delivery mechanism and planning reporting framework</li> <li>• Conducted 4-days training on GRB and various aspect of GESI for professional from center to RSC level (Participants: Men-38, Women-23, Total-61)</li> <li>• Conducted GESI audit in all 9 RSCs</li> <li>• Implemented Barefoot Engineering Approach and selected potential candidates to provide vocation training on house wiring (Participants: Women-1, Men-4, Total-5) and mobile phone repairing (Participants: Women-6, Men-9, Total-15)</li> <li>• Regular meeting to extend outreach of RET services through collaborating with right-holder institutions of women and DAG associated networks (2 meetings with NEFDIN and 2 with FEDO)</li> <li>• Compiled 30 success stories and ready for publication</li> </ul>
Output 2.15	DEEU/Ss become an integral part of DDCs and work to establish linkages between the AEPC and the needs of the	<ul style="list-style-type: none"> <li>• DEECs is regularly involved in promotion, development, expansion and monitoring of RET services in all districts</li> <li>• Orientation of more than 175 staff of different DDCs and Municipalities</li> </ul>



NRREP Outputs		Cumulative Achievements till 2014/15
	rural population whilst promoting the interests of women and marginalized groups	<ul style="list-style-type: none"> <li>Capacity need assessment has been completed</li> <li>All districts have formally endorsed DCEP in their respective district council meeting</li> <li>a contract was signed between ADDCN and AEPC for preparation of strategy for internalization of EECCS in DDC.</li> <li>DSEr of 74 districts has been received, edited and finalized.</li> </ul>
Output 2.16	RSCs are contracted and their capacity enhanced to facilitate the delivery of RE services and promote linkages at a local level as a resource of the AEPC	<ul style="list-style-type: none"> <li>Guideline of RSCs approved and is in operation.</li> <li>Technical support and orientation (through orientation and continuous follow up) was provided to Business Promotion Officer, Solar Engineer and Team Leader of all RSCs for smooth operation of planning and monitoring software of RSCs</li> <li>Supported all RSCs to minimize fiduciary risk through the placement of better financial system.</li> <li>A Functional linkage workshop was held with three RSCs (SCDC, NCDC and REWSSPC) and 12 DDCs to strengthen the functional linkage between RSCs and DDCs in Biratnagar.</li> <li>Technical facilitation provided for improved coordination of RSCs; among the RSCs and between DDC and RSCs.</li> <li>Meetings, regular coordination and facilitation to minimize fiduciary risk of RSCs have been conducted</li> </ul>
Output 3.1	Capacities of existing MSMEs are enhanced	<ul style="list-style-type: none"> <li>Strategies and Working guidelines for Promotion of MSMEs in RE catchment areas developed.</li> <li>287 MSMEs are upgraded</li> </ul>
Output 3.2	New and innovative MSMEs are created and operationalised, with a specific emphasis on integrating women and marginalized section of the population	<ul style="list-style-type: none"> <li>867 new MSMEs are established.</li> </ul>
Output 3.3	Appropriate business development services are available to MSMEs in RE catchments	<ul style="list-style-type: none"> <li>1154 new and upgraded MSMEs are linked with BDS providers</li> </ul>
Output 2.17	Income generating activities (IGA) for households using RE are developed and implemented in catchments areas	<ul style="list-style-type: none"> <li>Strategy and guidelines for promotion of IGAs developed</li> <li>2997 no of IGA plans are supported.</li> </ul>



## 7.2 District-wise Installed RE Technologies and approved MSMEs/IGAs in FY 2071/72 (in numbers):

S.N.	Technology-District	Solar					Community Electrification			Biogas		Biomass		PEU/MSMEs		
		SHS	SSH S	IS PS	PV PS	Dry er	MH P	Pico	IWM	Domes tic	Instituti onal	ICS	MI CS	Ne w	Upgra de	IGA
1	Achham	2895	32	20	2	0	4	4	58	0		7358	91	14	6	21
2	Arghakhanch	458	43	1	1	0	0	0	0	67		4379		0	0	0
3	Baglung	2	0	1	0	0	3	0	3	80		917	97	75	33	117
4	Baitadi	3302	517	18	0	0	0	1	79	6		4746		14	0	122
5	Bajhang	2132	421	41	1	0	6	4	17	0		3437		32	9	63
6	Bajura	1357	231	8	0	0	2	0	16	0		928	224	42	7	80
7	Banke	1823	9	13	0	0	0	0	0	986		755		0	0	0
8	Bara	381	0	0	0	0	0	0	0	728		6938		0	0	0
9	Bardiya	1144	78	0	0	0	0	0	0	2081		386		0	0	0
10	Bhaktapur	0	0	0	0	0	0	0	0	26		167	1	0	0	0
11	Bhojpur	3771	6	5	0	0	2	0	0	3		5400	44	10	0	0
12	Chitwan	1797	164	6	0	0	0	0	0	1277	3	200		0	0	0
13	Dadeldhura	773	80	0	1	0	0	0	10	2		3561		0	0	0
14	Dailekh	4141	72	10	3	0	0	0	18	4		1762		10	1	38
15	Dang	3135	0	6	1	0	0	0	0	1241		973		0	0	0
16	Darchula	1224	52	4	0	0	1	0	30	29		877		10	4	10
17	Dhading	1292	202	4	0	0	0	0	0	1095		1550		8	6	32
18	Dhankuta	205	0	0	0	0	0	0	0	121		8588	165	0	0	0
19	Dhanusa	39	0	0	0	0	0	0	0	71		9854		0	0	0
20	Dolakha	50	0	6	0	0	0	0	11	379		1472	225	15	10	80
21	Dolpa	215	0	1	0	0	1	0	9	0		0		0	0	0
22	Doti	2038	106	6	0	0	2	0	55	3		3134		11	0	64
23	Gorham	39	124	7	0	0	0	0	0	817		1666	127	20	9	131
24	Glumi	927	562	11	0	0	0	0	0	61		14663		23	9	25
25	Humla	548	589	6	0	8	2	0	6	0		0	355	12	1	28
26	Ilam	457	268	12	2	0	1	0	0	1309		4180	398	2	6	73
27	Jajarkot	2296	108	15	0	0	4	2	80	19		1995	45	17	4	69
28	Jhapa	390	437	0	0	1	0	0	0	1721		9633		0	0	0
29	Jumla	818	747	5	0	0	0	0	0	0		0	441	21	11	103
30	Kailali	3245	65	9	0	0	0	0	54	2320		12612		0	0	0
31	Kalikot	2210	495	16	0	0	0	0	22	4655		0	41	0	0	0
32	Kanchanpur	484	55	0	0	0	0	0	0	856		5702		0	0	0
33	Kapilbastu	12	9	0	0	0	0	0	0	1744		19653		0	0	0
34	Kaski	54	57	0	0	0	1	0	0	525		534	56	2	2	68
35	Kathmandu	0	0	0	0	1	0	0	0	598		485	24	0	0	0
36	Kavrepalanc	395	0	1	0	0	1	0	2	112	1	2332	51	13	9	63
37	Khotang	2041	82	3	0	0	2	2	3	20		1516	14	25	6	255
38	Lalitpur	636	0	1	0	0	0	0	0	123		216		0	0	0

S.N.	Technology- District	Solar					Community Electrification			Biogas		Biomass		PEU/MSMEs		
		SHS	SSH S	IS PS	PV PS	Dry er	MH P	Pico	IWM	Domes tic	Institut ional	ICS	MI CS	Ne w	Upgra de	IGA
39	Lamjung	70	121	2	0	0	0	0	0	690		935	121	6	0	77
40	Mahottari	35	0	0	0	0	0	0	0	287		20340		0	0	0
41	Makawanpur	1704	1	10	0	0	0	0	47	2013	4	482	57	0	0	0
42	Manang		0	0	0	0	0	0	0	0		0		16	3	21
43	Morang	522	149	4	0	1	0	0	0	1005	4	5165		0	0	0
44	Mugu	414	707	8	0	4	1	0	0	0		0	643	0	0	0
45	Mustang	154	0	0	0	0	0	0	5	0		0		0	0	0
46	Myagdi	333	158	2	0	0	0	0	5	47		684	529	0	2	0
47	Nawalparasi	896	97	3	0	0	3	0	0	720		281		11	2	131
48	Nuwakot	205	0	0	0	0	0	0	0	815	2	629	60	0	0	0
49	Okhaldhung	1800	0	6	0	0	2	0	6	80		966	778	10	7	40
50	Palpa	1036	20	7	0	0	2	0	1	880		1031		13	0	50
51	Panchthar	1324	1	4	4	0	2	1	0	196		3144	107	39	2	59
52	Parbat	22	244	0	0	0	0	0	5	34		543	129	0	0	0
53	Parsa	17	0	0	0	0	0	0	0	203		4958		0	0	0
54	Pyuthan	2921	296	0	0	0	1	0	0	284		1377		0	0	0
55	Ramechhap	845	0	16	1	1	2	0	8	124		3461	38	0	0	31
56	Rasuwa	11	33	0	0	0	0	0	6	156		225	24	0	0	0
57	Rautahat	886	20	0	0	0	0	0	0	428		28969		0	0	0
58	Rolpa	5213	0	21	3	0	4	0	24	42		1691	290	11	1	208
59	Rukum	3643	113	14	0	0	8	0	19	0		850	14	26	8	250
60	Rupandehi		0	0	0	0	0	0	0	433		14725		0	0	0
61	Salyan	5336	32	7	0	0	0	0	38	22		949		4	0	206
62	Sankhuwasa	636	0	1	0	0	0	0	0	73		8766	427	16	3	80
63	Saptari	424	73	0	0	0	0	0	0	163	2	4171		0	0	0
64	Sarlahi	3471	0	0	0	2	0	0	0	601		33778		0	0	0
65	Sindhuli	2827	0	3	2	0	1	0	23	2540		0		25	2	200
66	Sindhupalch	248	0	1	0	0	0	0	16	482		744	168	0	0	0
67	Siraha	262	0	1	0	0	0	0	0	61	1	7776		0	0	0
68	Solukhumbu	662	0	4	0	8	4	0	0	5		927	135	16	10	21
69	Sunsari	380	54	0	0	0	0	0	0	263	3	6122		0	0	0
70	Surkhet	3405	61	25	2	0	0	0	0	267		1135		13	2	76
71	Syangja	42	17	0	2	0	0	0	1	697		1323		15	1	47
72	Tanahu	378	350	1	3	0	0	0	0	683		1239		4	3	28
73	Taplejung	780	4	0	0	0	3	0	0	36		1390	721	44	6	162
74	Terhathum	333	0	0	0	0	0	0	0	92		6407	52	9	2	25
75	Udayapur	2698	0	4	0	0	0	0	5	1228		2529	54	7	0	63
	<b>Total</b>	<b>*90,659</b>	<b>8,157</b>	<b>380</b>	<b>28</b>	<b>26</b>	<b>65</b>	<b>14</b>	<b>682</b>	<b>38729</b>	<b>20</b>	<b>310,281</b>	<b>6746</b>	<b>661</b>	<b>187</b>	<b>3217</b>

\* The above figure does not include 4,345 SHS SAF was carry forwarded from last year.

Note: The figures in the above table correspond to the approved/installed figures, and may not match with the subsidy released figures.

**A. Details of Installed Micro Hydro Projects Completed in FY 2071/72**

S. No.	Project	District	VDC	kW	Designed HHs
1	Jhumsa Khola II MHP	Palpa	Gothadi-7	30.00	249
2	Chun Khola II MHP	Rukum	Chaukhabang-4,5	27.00	256
3	Nang Khola MHP	Rolpa	Korchabang-6	38.00	323
4	Sapsu Khola MHP	Khotang	Niramali Danda-1,2	11.00	105
5	Pati Khola Khudurki MHP	Remechhap	Gupeshwor	17.50	217
6	Sankh Khola I MHP	Rukum	Sankh-3	39.00	322
7	Rancha Khola I MHP	Kavre	Banakhuchur -9	6.00	84
8	Malagd II MHP	Bajura	Kailashmandu	100.00	932
9	Mawa Khola II MHP (ISPU)	Ilam	Banjho-3	11.00	95
10	Muwa Khola MHP (ISPU)	Panchthar	Prangbung	100.00	840
11	Chhange Khola MHP	Bhojpur	Khartamchha	35.00	332
12	Chun khola I MHP (ISPU)	Rukum	Chaukhabang	23.50	196
13	Dowar Khola MHP (ISPU)	Rolpa	Gam-9	11.00	96
14	Shiwa Khola MHP (ISPU)	Taplejung	Khebang-1	70.00	580
15	Chhiku Khola MHP to (ISPU)	Solukhumbu	Waku	10.50	99
16	Baudi Majuwa MHP (ISPU)	Nawalparasi	Dedgoun-1,2	7.00	95
17	Ladi Khola MHP (ISPU)	Nawalparasi	Dandajheri- 2 & 3	10.00	123
18	Juke Dovan Likhu Khola MHP	Okhaldhunga	Yasam	88.00	736
19	Tamkot Khola MHP (ISPU)	Achham	Kalekanda-	14.00	146
20	Machhaine Khola MHP	Humla	Shreenagar	30.00	274
21	Bhum Khola MHP	Achham	Kalekada	34.00	284
22	Narsing Gad MHP	Jajarkot	Bhagawai	15.00	116
23	Phedi Khla MHP (at CESC)	Dolpa	Narku	18.00	140
24	Dobiya khola MHP (ISPU)	Jajarkot	Ragda	18.00	235
25	Nyuju Khola MHP (ISPU)	Taplejung	Papung-7	15.00	149
26	Rithali Khola MHP (ISPU)	Bajhang	Banjh	22.00	208
27	Kanku Khola II MHP (at CESC)	Solukhumbu	Kanku-	50.00	477
28	Khari Khola III MHP (at CESC)	Solukhumbu	juving-	70.00	567
29	Phedi Khola MHP (at CESC)	Okhaldhunga	Kalikadevi	43.00	423
30	Kuhi Khola MHP (at CESC)	Nawalparasi	Dhubadi -6 &8	21.00	178
31	Oyam Thado Khola III MHP	Panchthar	Oyam-7	21.50	200
32	Irkhua Khola MHP	Bhojpur	Chaukundanda-3	28.00	238
33	Bheri Khola MHP	Jajarkot	Bhagawati	15.00	240

S. No.	Project	District	VDC	kW	Designed HHs
34	Jhumsa Khola III MHP	Palpa	Gothadi-8	68.00	603
35	Rudra Tal MHP	Baglung	Bobang-9	10.50	94
36	Lum Khola Ghatte Khola MHP	Humla	Kharpunath	20.00	180
37	Simtara MHP	Jajarkot	Sakala-9	52.00	561
38	Chuile Khola MHP	Kaski	Ghandruk	47.00	300
39	Tunda Gad MHP	Doti	Chawarachhautara-8	65.00	585
40	Julgad II MHP	Bajhang	maulali	76.00	780
41	Ghattegad shandi MHP	Darchula	Latinath	21.50	205
42	Vauranichhada MHP	Bajhang	Kotdewal	22.00	240
43	Dupka Bagar MHP	Achham	Ghugurkot	35.00	340
44	Sailigad MHP	Doti	Girichauka	23.00	268
45	Dhurilla Lachi Khola MHP	Bajhang	Masta	18.00	210
46	Sirpe Khola MHP	Bajhang	Kandel	9.00	162
47	Dogade Byas MHP	Bajhang	Koiralakot	18.00	284
48	Baddi Gad MHP	Bajura	Jagnnatha	100.00	1198
49	Talagad MHP	Achham	Lyanti	62.00	791
50	Waksu Khola III MHP	Sindhuli	Pokhari	36.00	449
51	Tammawa Khola MHP	Taplejung	Tapethok	65.00	546
52	Solu Khola Ganku MHP	Solukhumbu	Panchan	100.00	1070
53	Pumpa Khola MHP	Ramechhap	Preeti	20.00	200
54	Mahadev Khola MHP	Mugu	Jima	12.00	98
55	Tap Khola MHP	Khotang	Khartamchha	69	575
56	Muse Khola MHP	Rukum	Garayala	8.5	99
57	Deurali Chhahara Khola MHP	Rolpa	Owt	16	330
58	Nimre Khola MHP	Rolpa	Khorchabang	12	110
59	Kuchibang Khola MHP	Rukum	Rukumkot	19	210
60	Tuni Khola MHP	Baglung	Jaljala	42	387
61	Kut Khola III MHP	Baglung	Rajkut	20	194
62	Triveni Kakri Khola MHP	Rukum	Kankri	45	425
63	Deuta Khola MHP	Rukum	Garayala	19	215
64	Chunbang Khola MHP	Rukum	Chunbang	22.5	273
65	Khara Khola MHP	Pyuthan	Rajwara	40	360
<b>Total</b>				<b>2242.00</b>	<b>21,897</b>

## B. Details of installed Pico Hydro completed in FY 2071/72

S. No.	Project	District	VDC	kW	Designed HHs
1	Chupang Nuwa Khola PHP	Panchthar	Rabi-3	4.00	42
2	Dilung Khola PHP	Khotang	Waplukha-8	3.00	42
3	Dilung Khola II PHP	Khotang	Waplukha-9	5.00	65
4	Nath Khola Peltric Set	Achham	Turmakhand-6	4.00	120
5	Naukatte Peltric Set	Achham	Kuika-4	1.50	32
6	Mulee Peltric Set	Achham	Mulee-2	3.50	50
7	Janali Khola Peltric Set	Achham	Birpath-1,7	2.00	30
8	Bheri Khola Silpalauna Dharma Shala PHP	Jajarkot	Dandagaun	5.00	60
9	Bhateni Khola PHP	Jajarkot	Paink	3.50	76
10	Panimul Khola PHP	Bajhang	Kandel	2.50	44
11	Nautola Khola PHP	Bajhang	Kandel	3.50	75
12	Kuwakotigad Khola PHP	Baitadi	Kuwakot	4.00	60
13	Jogad Khola PHP ( ISPU)	Bajhang	Chaudhary	5.00	90
14	Ghogali Khola PHP( ISPU)	Bajhang	Matela	3.50	50
<b>Total T &amp; C PHP achieved in 3<sup>rd</sup> year</b>				<b>50.00</b>	<b>836</b>

## C. List of DFS completed projects

S. No.	Project	District	VDC	kW	Proposed HHs
1	Thakpa Khola MHP	Taplejung	Lelep-5	52	262
2	Juwa Nadi Thinke Bandh MHP	Jumla	Chandannath – 2	100	645
3	Aaghad Khola MHP	Dailekh	Singasain-	20	263
4	Kanegad Khola II MHP	Dailekh	Tilepata-	12	176
5	Shantipur Bashar Mini Hydro Project	Kailali	Nigali	422	1645
6	Nunekhu Khola MHP	Udayapur	Okhle-5	15	142
7	Arun Thakur Khola MHP	Sindhuli	Arunthakur-1	10.5	170
8	Sau Khola MHP	Sindhuli	Ratnawati-7	18	204
9	Tuwa Khola MHP	Khotang	Indrayani Pokhari-8	22	146
10	Dovane Khola MHP	Khotang	Chisapani-8	11	161

S. No.	Project	District	VDC	kW	Proposed HHs
11	Ramre Khola MHP	Rukum	Sisne-4	12	138
12	Lafagad MHP	Kalikot	Ramakot-6	85	648
13	Donale Gad MHP	Doti	Mannakapadi	23	200
14	Wang khola MHP	Sankhuwasabha	Hatiya-6	35	239
15	Sang Khola MHP	Sankhuwasabha	Sabhapokhari-1	38	175
16	Sanouku Khola MHP	Okhaldhunga	Ketuke-5,6	28	237
17	Sankhuwa Khola MHP	Bhojpur	Kulung-2	100	645
18	Thotne Khola Khairenitar MHP	Okhaldhunga	Pokhare-6	31.5	338
19	Biwang Khaber Khola MHP	Rolpa	Gaam-6	32.5	330
20	Rum Khola MHP	Pyuthan	Kochibang-5	28	182
21	Khurpe Khola MHP	Pyuthan	Kochibang-9	11	105
22	Dhad Khola MHP	Tanahun	Dharampani-1	20	115
23	Puma Khola MHP	Rukum	Pipal-4	100	808
24	Tharo Khola MHP	Rukum	Chungbang-8	12	120
25	Lunget Khola I MHP	Gorkha	Uiya	100	410
26	Danaque Khola MHP	Manang	Bagarchhap	27	74
27	Hanglung Khola MHP	Bhojpur	Gogane-9	80	553
28	Bhuchchi Khola MHP	Kalikot	Thirpu	35	280
29	Sabra Khola MHP	Ramechhap	Duragaun	50	620
<b>Total</b>				<b>1530.5</b>	<b>10,031</b>

#### D. List of TRC/Conditionally Approved Projects

S. No.	Name of the Project	District	VDC	kW	HH
1	Niwa Khola III MHP	Panchthar	Ektin	21	177
2	Niwa Khola III MHP	Panchthar	Ektin	21	177
3	Wachimle Khola MHP	Bhojpur	Annapurna-9	40	374
4	Khokse Khola Banchara MHP	Taplejung	Nankholyang	19.5	208
5	Arun Thakur Khola MHP	Sindhuli	Arun Thakur	10.5	170
6	Kalanga Khola MHP	Bajhang	Rayal	100	780
7	Isuwa Khola MHP	Sankhuwasabha	Makalu – 7	90	445

S. No.	Name of the Project	District	VDC	kW	HH
8	Sau Khola II MHP	Sindhuli	Ratnawati	18	204
9	Sisuwa Khola Chatekma MHP	Sankhuwasabha	Sisuwa – 9	58	290
10	Shiva Shakti Bira Him Nadi MHP	Jumla	Kalika Khetu	43	427
11	Dhad Khola II MHP	Kalikot	Chappre	32	235
12	Shantipur Basar MHP	Kailali	Nigali	422	1645
13	Bir Janta Sahit Chadaha Khola MHP	Sindhuli	Balajor	23	240
14	Sau Khola II MHP	Taplejung	Sanghu – 1	62	346
15	Aghad Khola MHP	Dailekh	Singasain	20	263
16	Kanegad Khola II MHP	Dailekh	Tilepata	12	176
17	Middle Phawa Khola MHP	Taplejung	Sikaicha	360	2093
18	Wang Khola MHP	Sankhuwasabha	Hatiya – 6	35	239
19	Nunekha Khola MHP	Udayapur	Okhle	15	142
20	Thang Kharka Khola MHP	Sankhuwasabha	70akalu-9	26	120
21	Sang khola MHP	Sankhuwasabha	Sabhapokhari	38	175
22	Tuwa khola MHP	Khotang	Indrayanipokhari-8	22	146
23	Juwa Nadi Thinke Badh MHP	Jumla	Chandannath	100	645
24	Lafagad MHP	Kalikot	Ranakot	85	648
25	Dhad Khola MHP	Tanahun	Dharampani	20	115
26	Thakpa Khola MHP	Taplejung	Lelep-5	52	262
27	Khokse Khola MHP	Taplejung	Dokhu-4	50	362
28	Tharo Khola MHP	Rukum	Chunbang	12	120
29	Bheri Khola MHP	Salyan	Jimali	23	205
<b>Total Power</b>				<b>1830</b>	<b>11,429</b>

**E. List of Final Approval (under construction) MHPs**

S. N.	Name of MHP	District	VDC	kW	Proposed HH
1	Muse Khola MHP	Rukum	Garayala-5	8.5	99
2	Tamkot Khola MHP	Achham	Kalekanda-9	14	146
3	Chhipungo Khola MHP	Humla	Khagalgaun	28	236
4	Tatopani Khola MHP	Humla	Khagalgaun	20	167
5	Lokante Khola MHP	Bajhang	Kanda	18	160
6	Reuti Khola MHP	Makwanpur	Kakada	16.5	175
7	Sankh Khola Dovan MHP	Rukum	Bhalakchha-2	58	569
8	Baudi Majuwa PHP	Nawalparasi	Dedgoun-2	7	95
9	Deuchuli Panighat MHP	Nawalparasi	Arkhal -4	28	294
10	Hadi Khola MHP	Taplejung	Liwang-4	39.5	328
11	Khaksewa Khola MHP	Taplejung	Mamankhe &	70	627
12	Tribeni Solu Khola MHP	Solukhumbu	Salyan	100	890
13	Ghattegad Shandi Khola MHP	Darchula	Latinath-2	21.5	205
14	Dogade Bayas Khola MHP	Bajhang	Koiralakot-	18	248
15	Taru Gad Khola MHP	Bajhang	Matela-8	27	236
16	Sisne Madi Khola MHP	Rolpa	Rangsi-2	40.6	441
17	Rijagad MHP	Rukum	Gotamkot-9	56	667
18	Okma Khola MHP	Rukum	Kol-7	69	531
19	Byansi Gad MHP	Dolpa	Lawan-7	51	579
20	Raya Khola MHP ( ISPU)	Humla	Raya	25	228
21	Chhaya Chhetra Khola MHP	Rolpa	Whama	25.5	250
22	Kaphalbata MHP	Jajarkot	Laha	40	345
23	Cherwang Patle Khola MHP	Myagdi	Ruma-7	11.5	110
24	Nandibang Khola MHP ( ISPU)	Myagdi	Malkabang-1	42	212
25	Chhahara Khet Galfagad MHP (	Humla	Shreenagar-	100	914
26	Pipaltar Khani Khola MHP	Ramechhap	Dimipokhari	11	125
27	Chhote Khola MHP	Lumjung	Dhodeni-8	60	500
28	Holu Khola Phulbari MHP (ISPU)	Jajarkot	Khalanga-	16	159
29	Chinde Khola MHP (ISPU)	Sankhuwasabha	Shivapokhari-	20	169
30	Kabeli Khola MHP ( ISPU)	Taplejung	Yamfudin5.9	15	75
31	Sangad MHP ( ISPU)	Bajhang	Dahabagar	25	217
32	Gulsu Khola MHP (ISPU)	Achham	Sutar	19	225
33	Bagaune Khola MHP (ISPU)	Rolpa	Kureli-8	91	573



S. N.	Name of MHP	District	VDC	kW	Proposed HH
34	Gaidung Khola MHP (at CESC)	Rolpa	Siuri	22	216
35	Okhatya Gaida MHP ( ISPU)	Jajarkot	Bhur	15	240
36	Juddi Khola MHP II ( ISPU)	Bajura	Gotree-	100	1189
37	Khani Khola MHP (ISPU)	Ramechhap	Hiledevi-9	17	195
38	Patle Khola MHP ( ISPU)	Okhaldhunga	Patle	17	145
39	Bhok Khola III MHP (ISPU)	Solukhumbu	Basa	30	291
40	Bet Khola MHP ( ISPU)	Surkhet	Bijaura-3	16	107
41	Khamari Khola II MHP ( ISPU)	Surkhet	Babiyachaur-8	15	151
42	Dhorpatan Bhuji Khola MHP (	Baglung	Bobang-9	60	701
43	Kuwadi Khola MHP	Humla	Maila	100	1112
44	Wakshu Khola II MHP (ISPU)	Sindhuli	Pokhari	15	189
45	Ratamata Bhitri Khola MHP	Rolpa	Budhagaun	6	121
46	Pachhedhunga Khola MHP	Rolpa	Gairigaun	10.5	89
47	Dhungre Khola MHP	Palpa	Satyawati -1	54.3	585
48	Majuwa Kuine Khani MHP (ISPU)	Myagdi	Kuinemangale-	20	120
49	Nagdewa Khola MHP	Taplejung	Tellok-6	22	175
50	Muja Khola MHP (ISPU)	Achham	Barala-9	24	300
51	Bansiling Khola MHP (ISPU)	Chitwan	Korak-4	9	100
52	Bumla Khola MHP ( ISPU)	Dhading	Lapa-1	42	350
53	Gandigad MHP (ISPU)	Doti	Ganjari	90	545
54	Kharkhara Khola MHP	Rukum	Athbiskot-3	44	610
55	Daha Khola MHP	Rukum	Magma-2	20	151
56	Majkot Khola MHP	Jajarkot	Majkot	100	933
57	Molung Khola Kanyadaha Sirbukti Dipti Simsar Kakare MHP	Okhaldhunga	Ragadeep	63	435
58	Shivaduti Multipurpose MHP	Okhaldhunga	Sisneri	100	907
59	Saili Gad IV MHP	Doti	Daud	12	118
60	Saili Gad V MHP	Doti	Daud	16.5	214
61	Kansagad MHP	Bajura	Toli	45	352
61	Rakuli Khola MHP	Udaypur	Banspote-6	45	460
62	Pashe Khola MHP	Dhading	Ree & Lapa -2	100	548
63	Takchuwa khola PHP	Morang	Warangi-9	10	50
<b>Total</b>				<b>2431.90</b>	<b>22,494</b>

**F. List of First Installment of Subsidy Released Solar PV Water Pumping Systems**

S.N	Project Name	Address	Approved Subsidy	Subsidy released (60%)
1	Dharapani RSDWP	Binayak VDC, Achham	1,208,865.1	725,319.06
2	Koirelikhola RSDWP	Girichuka VDC, Achham	8,888,461.5	533,076.91
3	Rumdhum RSDWP	Deulek VDC, Bajhang	1,260,081.4	756,048.88
4	Aampani RSDWP	Sirsha VDC, Dadeldhura	1,198,140.6	718,884.40
5	Kasilmela RSDWP	Awalparajul VDC, Dailekh	1,259,759.6	755,855.80
6	Naitedalka RSDWP	Rawatkot VDC, Dailekh	1,278,274.0	766,964.44
7	SharkiKhadi RSDWP	Rawatkot VDC, Dailekh	1,352,570.9	811,542.56
8	Dapcha RSDWP	Sahare VDC, Surkhet	1,640,000.0	984,000.00
9	Gairabans ko Jhyang Muni RSDWP	Awalching VDC, Surkhet	1,209,950.9	725,970.55
10	Chhahara Khola RSDWP	Maidan VDC, Arghakhanchi	1,602,500.0	961,500.00
11	Dhapkhola RSDWP	Hansipur VDC, Dang	1,602,500.0	961,500.00
12	Tikhanvir RSDWP	Budhagaun VDC, Rolpa	1,585,000.0	951,000.00
13	Dhanmang RSDWP	Nuwagaun VDC, Ropla	1,587,500.0	952,500.00
14	Cheurikhola RSDWP	Gairigaun VDC, Rolpa	1,590,000.0	954,000.00
15	Padhera RSDWP	Sakher VDC, Syangja	1,555,250.0	933,150.00
16	Bhulke RSDWP	Sakher VDC, Syangja	1,610,000.0	966,000.00
17	Dharapani Mul RSDWP	Ghiring Sundhara VDC, Tanahun	1,745,000.0	1,047,000.00
18	Raudi Mul RSDWP	Ghiring Sundhara VDC, Tanahun	1,522,500.0	913,500.00
19	Chhepradi Kholi RSDWP	Gajarkot VDC, Tahanun	1,617,500.0	970,500.00
20	Bagcheda RSDWP	Kamalamai Municipality, Sindhuli	1,570,814.0	942,488.40
21	Tirtire RSDWP	Tirtire VDC, Sindhuli	1,433,259.0	859,955.40
22	Belghari RSDWP	Rakathum VDC, Ramechhap	1,067,477.0	640,486.20
23	Dadui RSDWP	Mahamai VDC, Ilam	1,160,368.0	696,220.80
24	Kalikhola RSDWP	Danabari VDC, Ilam	1,431,893.1	859,135.87
25	Thotima RSDWP	Kuramba VDC, Panchthar	1,549,274.0	929,564.40
26	Gadare RSDWP	Ravi VDC, Panchthar	1,645,000.0	987,000.00
27	Nagi RSDWP	Arubote VDC, Panchthar	1,377,547.2	826,528.34
28	Yangkhuwa RSDWP	Angna VDC, Panchthar	1,299,650.9	779,790.59

**G. List of Tested and Commissioned Solar PV Water Pumping Systems**

S.N	Project Name	Address	Approved Subsidy	Subsidy released (90%)
1	Muldhara RSDWP	Mahamai-3, Ilam	1,149,958.00	1,034,962.20
2	Tumbakhola RSDWP	Sukhura-6, Baglung	1,500,000.00	1,350,000.00
3	Kause Khola RSDWP	Dhiyal-8, Makwanpur	1,500,000.00	1,350,000.00
4	Jhakri Khola RSDWP	Ghiring Sundhara -3, Tanahun	1,500,000.00	1,350,000.00
5	Tapli RSDWP	Lekhgaun-3, Udayapur	1,421,000.00	1,278,900.00
6	Jamane Gaira RSDWP	Lekhgaun-3, Udayapur	1,323,500.00	1,191,150.00

S.N	Project Name	Address	Approved Subsidy	Subsidy released (90%)
7	Simlekholsi RSDWP	Katunjabawala-7, Udayapur	1,602,500.00	1,442,250.00
8	Sharki Kholsi RSDWP	Katunjabawala-2, Udayapur	1,318,577.00	1,186,719.30
9	Simkhola RSDWP	Kettuke-8, Okheldhunga	1,600,000.00	1,440,000.00
10	Lukuwa Dhunga RSDWP	Thulachhap-1, Okheldhunga	1,570,000.00	1,413,000.00
11	Yari RSDWP	Kareti-5, Rolpa	1,702,500.00	1,532,250.00
12	Adheri Khola RSDWP	Khadadevi-2, Ramechhap	1,645,000.00	1,480,500.00
13	Koirelikhola RSDWP	Girichuka VDC, Achham	888,461.51	799,615.36
14	Kasilmela RSDWP	Awalparajul VDC, Dailekh	1,259,759.67	1,133,783.70
15	Naitedalka RSDWP	Rawatkot VDC, Dailekh	1,278,274.07	1,150,446.66
16	SharkiKhadi RSDWP	Rawatkot VDC, Dailekh	1,352,570.94	1,217,313.85
17	Gairabans ko Jhyang Muni RSDWP	Awalching VDC, Surkhet	1,209,950.92	1,088,955.83
18	Dhapkhola RSDWP	Hansipur VDC, Dang	1,602,500.00	1,442,250.00
19	Tikhanvir RSDWP	Budhagaun VDC, Rolpa	1,585,000.00	1,426,500.00
20	Dhanmang RSDWP	Nuwagaun VDC, Ropla	1,587,500.00	1,428,750.00
21	Dharapani Mul RSDWP	Ghiring Sundhara VDC, Tanahun	1,745,000.00	1,570,500.00
22	Chhepradi Kholsi RSDWP	Gajarkot VDC, Tahanun	1,617,500.00	1,455,750.00
23	Belghari RSDWP	Rakathum VDC, Ramechhap	1,067,477.00	960,729.30
24	Gadare RSDWP	Ravi VDC, Panchthar	1,645,000.00	1,480,500.00
25	Dharapani RSDWP	Binayak-7, Achham	1,208,865.10	1,087,978.59
26	Dandathok RSDWP	Ghiring Sundhara , Tanahun	1,522,500.00	1,370,250.00
27	Dapcha RSDWP	Sahare, Surkhet	1,640,000.00	1,476,000.00
28	Chiurikhola RSDWP	Gairigaun, Rolpa	1,590,000.00	1,431,000.00

#### H. District-wise List of Ongoing PVPS

S.N	Project Name	VDC	District
1	Oyapani RSDWP	Maidan	Arghakhanchi
2	Baguwan RSDWP	Kushadevi	Kavre
3	Kothape RSDWP	Rakathum	Ramechhap
4	Besitole RSDWP	Pimkhuri	Ramechhap
5	Thulodhara RSDWP	Daduwa	Ramechhap
6	Maahangkali RSDWP	Virpani	Ramechhap
7	Jaalidhunga RSDWP	Dimpokhari	Ramechhap
8	Gaire bari RSDWP	Dimpokhari	Ramechhap
9	Kamal Kholsi RSDWP	Mahamai	Illam
10	Bharate Kholsi RSDWP	Mahamai	Illam
11	Langhali RSDWP	Arubote	Panchthar
12	Thamdada RSDWP	Arubote	Panchthar
13	Lakhuwa Kholsi RSDWP	Aangna	Panchthar
14	Jor Dhara Bhanjyang RSDWP	Ibhang	Illam

S.N	Project Name	VDC	District
15	Jharuwa RSDWP	Chaudandi	Udayapur
16	Kholisha RSDWP	Durchhum	Khotang
17	Doharapani RSDWP	Chaudandi	Udayapur
18	Lampate RSDWP	Chaudandi	Udayapur
19	Bhurlukadi RSDWP	Virkot	Tanahun
20	Chapadi RSDWP	Ghiring Sundara	Tanahun
21	Dharakhola RSDWP	Baidi	Tanahun
22	Kafal RSDWP	Ghiring Sundara	Tanahun
23	Limid RSDWP	Ghiring Sundara	Tanahun
24	Liti RSDWP	Beteni	Makwanpur
25	Ratomatte RSDWP	Beteni	Makwanpur
26	Thakaltar RSDWP	Korak	Chitwan
27	Jipa Khola RSDWP	Lapa	Dhanding
28	Chayachutii	MahendrJhyadi	Sindhuli
29	Jutapani RSDWP	MahendrJhyadi	Sindhuli
30	Nawa jal RSDWP	kayneshwor	Sindhuli
31	Sakkali RSDWP	Kyaneshwor	Sindhuli
32	Charchare RSDWP	Belghari	Sindhuli
33	Badedhunga RSDWP	Bartadevi	Achham
34	Baagikhola RSDWP	Sokat	Achham
35	Sukechhada RSDWP	Babla	Achham
36	Golabhat RSDWP	Kuskot	Achham
37	Chindhara RSDWP	Bartadevi	Achham
38	Bahunkhola RSDWP	Betan	Surkhet
39	Bardhara RSDWP	Awalparajul	Dailekh
40	Dhuwadi RSDWP	Rawotkot	Dailekh
41	Dhungsile RSDWP	Awalaching	Surkhet
42	Jadabasne RSDWP	Lalikanda	Dailekh
43	Karnalli RSDWP	Rawotkot	Dailekh
44	Dhovi Khola RSDWP	Durchhum	Khotang

#### I. List of Installed ISPS in the NFY 2071/72

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
1	Shree Nepal Rastriya Secondary School	Salyan	Chandekareni	959,625
2	Shree Chamunda Campus	Dailekh	Chamunda	998,925
3	Jay Janta Higher Secondary School	Dailekh	Piladi	1,000,000
4	Maheshwori Higher Secondary School	Baitadi	Mahadevsthan	1,000,000
5	Sikchodaya Higher Secondary School	Bajhang	Bajh	1,000,000
6	Malika Higher Secondary School	Dailekh	Lalikada	1,000,000
7	Shree Ratna Secondary School	Bajhang	Bajh	945,750
8	Shree Sanobheri Higher Secondary School	Rukum	Garayala	1,000,000

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
9	Shree Kafalsera Secondary School	Bajhang	Pipalkot	973,050
10	Shree Dileshwor Higher Secondary School	Baitadi	Hat	1,000,000
11	Shree Purchoundi Multiple Campus	Baitadi	Hat	999,525
12	Shree Galinath Secondary School	Baitadi	Kotili	1,000,000
13	Janajagriti MA VI	Surkhet	Kunathari	969,450
14	Saraswoti Ni. Ma. Vi	Surkhet	Kunathari	969,450
15	Nepal Rastriya Ni. Ma. Vi.	Surkhet	Kunathari	969,450
16	Nepal Rastriya Ma. Vi.	Surkhet	Pokharikanda	969,450
17	Bidhyajyoti MA VI	Surkhet	Biddhapur	969,450
18	Shree Narayani Higher Secondary School	Lalitpur	Gimdi	983,100
19	Shree Mandali Lower Secondary School	Bajura	Sapata	785,250
20	Shree Madhyamik Bidhyalaya	Udayapur	Mayankhu	983,400
21	Shree Janapriya Secondary School	Rukum	Peugha	967,500
22	Shree Balkalyan Secondary School	Salyan	Daramakot	943,430
23	Shree Janata Lower Secondary School	Rolpa	Ot	967,500
24	Shree Saraswati Higher Secondary School	Salyan	Shivarath	943,430
25	Shree Kedar Lower Secondary School	Bajhang	Bhamchaur	967,500
26	Shree Mastamandu Secondary School	Doti	Lamikhal	967,500
27	Shree Mahadev Secondary School	Darchula	Ghusa	967,500
28	Shree Kunti Secondary School	Accham	Mangalsen	967,500
29	Shree Bhrikuti Secondary School	Kailali	Pandon	690,000
30	Shree Radio Chomolongma 95.2 MHz	Solukhumbu	Kangel	1,000,000
31	Shree Mahendra Secondary School	Kailali	Pandon	967,500
32	Shree Satya Higher Secondary School	Bajhang	Daulichaur	967,500
33	Shree Sunkoshi Jana Lower Secondary School	Okhaldhunga	Thakle	943,430
34	Tamakhani Bhagawati LSS	Darchula	Khandeshwori	967,500
35	Shree Kedar Secondary School	Doti	Niroli	690,000
36	Shree Kedar HSS	Bajhang	Deulikot	967,500
37	Daya Pipal Tola Ma. Vi.	Accham	Lungra	967,500
38	Lungra Sub-Health Post	Accham	Lungra	582,375
39	Hattikot Sub-Health Post	Accham	Hattikot	582,375
40	Payal Sub-Health Post	Accham	Patal(Payal)	582,375
41	Jana Jagriti Pra. Vi.	Bajhang	Bajh	934,875
42	Mahadev Pra. Vi	Bajhang	Sunkuda	934,875
43	Debeshwori U. Ma. Vi.	Bajhang	Deulekh	934,875
44	Masta Ma. Vi.	Bajhang	Sunkuda	934,875
45	Gadadevi Pra. Vi.	Bajhang	Sunkuda	934,875
46	Kalika Pra. Vi.	Bajhang	Sunkuda	934,875
47	Masta Pra. Vi.	Bajhang	Sunkuda	934,875
48	Sishu Sudhar Ma. Vi.	Accham	Basti	879,555
49	Kanya Ma. Vi.	Bajhang	Pipalkot	919,905
50	Kailash Bhawani Ma. Vi.	Bajhang	Bhamchaur	991,680
51	Maitiban Ni. Ma. Vi.	Bajhang	Kotdewal	938,160
52	Gouri Ni. Ma. Vi.	Bajhang	Maulali	991,680
53	Masta Ma. Vi.	Bajhang	Sainpasela	877,305
54	Thalachaur Ma. Vi.	Bajhang	Maulali	877,305
55	Bhawani Ma. Vi.	Bajhang	Bajh	840,615

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
56	Dandabagh Pra. Vi	Bajhang	Chaudhari	937,260
57	Maheshwori Ni. Ma. Vi.	Bajhang	Syadi	919,905
58	Baljiban Pra. Vi.	Bajhang	Sunkuda	934,875
59	Sunikot Ma. Vi.	Bajhang	Sunikot	938,310
60	Amlish Ma. Vi.	Bajura	Dahakot	869,805
61	Devdada Ma. Vi.	Bajura	Kolti	873,555
62	Janaprakash Uch. Ma. Vi.	Bajura	Kolti	873,555
63	Kulmastjan Ni. Ma. Vi.	Bajura	Rugin	843,210
64	Durga Devi Madhyamik Vidhyalaya	Accham	Nandegada	892,575
65	Shree Sodsa Lower Secondary School	Accham	Shodasdevi	892,575
66	Shree Gyan Mandir Secondary School	Accham	Babla	988,257
67	Shree Janakalyan Secondary School	Rukum	Bhalakcha	1,000,000
68	Shree Nepal Rastriya Secondary School	Rukum	Aathbis Dandagaun	1,000,000
69	Shree Shivashakti Secondary School	Dailekh	Salleri	1,000,000
70	Shree Shital Higher Secondary School	Rukum	Chaurjahari (Bijayishwori 8, 9)	1,000,000
71	Shree Ganodaye Secondary School	Rukum	Bhalakcha	1,000,000
72	Sagarmatha Ni. Ma. Vi.	Solukhumbu	Nechabeghari	1,000,000
73	Shekarsing Ni.Ma.Vi.	Solukhumbu	Garma	1,000,000
74	Shree Sagarmatha HSS	Bhojpur	Ranibas (Ghodetar)	756,075
75	Shree Pashupati Secondary School	Bhojpur	Timma	775,025
76	Shree Sharada HSS	Sindhuli	Tinkanya	985,413
77	Chisapani HSS	Khotang	Chisapani	998,315
78	Sikshya Niketan	Khotang	Devasthan	978,848
79	Shree Khandeshwori Higher Secondary School	Darchula	Khandeshwori	957,825
80	Shree Kedar Higher Secondary School	Bajhang	Syadi	970,200
81	Shree Bajhang-Deep Campus	Bajhang	Bhairavnath	971,850
82	Shree Bijaya Higher Secondary School	Dailekh	Dullu	850,275
83	Motiram Higher Secondary School	Kalikot	Sipkhana	963,375
84	Gyan Jyoti Lower Secondary School	Rukum	Kholagaun	711,675
85	Janasewa Lower Secondary School	Rukum	Kholagaun	726,675
86	Shree Siddheshwori Primary School	Banke	Binauna	1,000,000
87	Shree Nepal Rastriya Lower Secondary School	Banke	Baijapur	992,250
88	Shree Malika Primary School	Ramechhap	Nagdaha	1,000,000
89	Shree Kasthem Secondary School	Ramechhap	Bhuji	1,000,000
90	Shree Rupadevi Primary School	Ramechhap	Nagdaha	1,000,000
91	Shree Gogane Lower Secondary School	Ramechhap	Pingakhuri	1,000,000
92	Shree Janabhawana Primary School	Banke	Binauna	1,000,000
93	Shree Janakiran Lower Secondary School	Ramechhap	Pingakhuri	1,000,000
94	Shree Thanapati Proposed Lower Secondary School	Ramechhap	Puranagaun	1,000,000
95	Shree Punya Lower Secondary School	Ramechhap	Puranagaun	1,000,000
96	Shree Thinkepoo Lower Secondary School	Ramechhap	Bhuji	999,600
97	Shree Bhuwar Bhawani Higher Secondary School	Banke	Binauna	1,000,000
98	Shree Suryodaya Primary School	Banke	Binauna	1,000,000
99	Shree Nepal Rastriya Lower Secondary School	Banke	Binauna	385,875

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
100	Shree Neapal Rastriya Lower Secondary School	Banke	Baijapur	385,875
101	Shree Ganesh Lower Secondary School	Banke	Baijapur	1,000,000
102	Shree Janajagriti Primary School	Banke	Baijapur	1,000,000
103	Shree Janashakti Secondary School	Banke	Baijapur	1,000,000
104	Shree Nabachandra Primary School	Ramechhap	Bhatauli	1,000,000
105	Harinagar Lower Secondary School	Chitwan	Kalyanpur	873,000
106	Duni Health Post	Accham	Duni	793,500
107	Krishnanagar Secondary School	Chitwan	Ayodhyapuri	1,000,000
108	Shree Buddha Secondary School	Gorkha	Sirdibas	898,200
109	Shree Kalika Secondary School	Makawanpur	Dhiyal	874,800
110	Shree Triveni Higher Secondary School	Kailali	Sugarkhal	873,000
111	Shree Chimmke Lower Secondary School	Palpa	Gandhakot	873,000
112	Shree Janajagriti Higher Secondary School	Arghakhanchi	Siddhara	965,892
113	Shree Khairang Sub-Health Post	Makawanpur	Khairang	928,800
114	Shree Sahid Dasharatha Lower Secondary School	Panchthar	Aarubote	869,250
115	Shree Bhawani Lower Secondary School	Bajura	Badhu	898,200
116	Shree Jayapur Secondary School	Baitadi	Giregada	1,000,000
117	Shree Bikash Primary School	Bajura	Dogadi	972,000
118	Shree Dogadi Health Post	Bajura	Dogadi	972,000
119	Shree Bhairab Secondary School	Kavre	Gokule	999,450
120	Shree Jalpa Primary School	Udayapur	Mainamaini	997,725
121	Shree Jagiramthami Primary School	Udayapur	Mainamaini	997,725
122	Shree Laligurans Primary School	Udayapur	Mainamaini	997,725
123	Shree Bageshwor Secondary School	Rolpa	Hawama	1,000,000
124	Shree Balhit Secondary School	Rolpa	Korchawang	1,000,000
125	Shree Janata Lower Secondary School	Dang	Purandhara	1,000,000
126	Shree Birendra Secondary School	Rolpa	Gairigaun	1,000,000
127	Shree Sati Bhawani Lower Secondary School	Banke	Khash Kusma	1,000,000
128	Shree Deuti Lower Secondary School	Dang	Panchkule	1,000,000
129	Himalayan Higher Secondary School	Surkhet	Khanikhola	1,000,000
130	Shree Nepal Rastriya Higher Secondary School	Surkhet	Betam	990,000
131	Shree Seti Community FM	Bajhang	Chainpur	1,000,000
132	Shree Laxmi Secondary School	Doti	Bachhain	986,100
133	Shree Bhagwati Secondary School	Jajarkot	Archhani	999,600
134	Shree Rastriya Higher Secondary School	Baitadi	Melauli	986,100
135	Shree Singhas Higher Secondary School	Baitadi	Sankarpur	986,100
136	Shree Kailash Secondary School	Sankhuwasabha	Bahrabise Bazar	988,500
137	Shree Janajyoti Samudayik Adhhayan Kendra	Jajarkot	Archhani	999,000
138	Shree Kalika Higher Secondary School	Kalikot	Gela	979,350
139	Shree Radio Dorpatan Burtibang	Baglung	Burtibang	990,000
140	Ramarajya Higher Secondary School	Gulmi	Isma Doholi	994,350
141	Radio Sisney F.M 93.2 MHz	Rukum	Khalanga Musikot (7,4)	1,000,000
142	Mehalepokhari Madhyamik Vidhyalaya	Gulmi	Myalpokhari	986,850
143	Bhagwati Higher Secondary School	Gulmi	Wagla	994,350
144	Newkharka Madhyamik Vidhyalaya	Gulmi	Hadhade	994,350
145	Wagla Higher Secondary School	Gulmi	Wagla	994,350



S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
146	Shree Tribhuwan Janata Secondary School	Rukum	Ranmamaikot	993,750
147	Radio Nepali Awaz 101.8 MHz	Kalikot	Manma	970,500
148	Shree Kamala Devi Secondary School	Makawanpur	Dandakharka	998,850
149	Shree Ranisera Lower Secondary School	Makawanpur	Makwanpurgadi	954,750
150	Shree Nimna Ma. Vi.	Chitwan	Ayodhapari	969,450
151	Nimmna ma. Vi. Jagamathri	Chitwan	Ayodhapari	969,450
152	Saraswoti H.S.S.	Ilam	Banjho-9	969,450
153	shree Mahadev LSS	Jumla	gothi pigi	1,000,000
154	Shree Mahadev HSS	Kalikot	Foikot	994,605
155	Shree Sano Kavre SS	Lamjung	Illampokhari-5	969,450
156	Bagishwori S.S.	Lamjung	Bichour-4	969,450
157	Nimmna ma. Vi. Bijayashwori	Rukum	Bijayashori-1	995,505
158	Malika S.S.	Surkhet	Chhapre	969,450
159	Saraswoti S.S.	Surkhet	Chepang	969,450
160	Shree Bhagawoti PS	Morang	Warangi-8	463,500
161	Shree Mahendra SS	Morang	Warangi-4	791,250
162	District Sub Health Post	Morang	Warangi-4	749,831
163	Shree Saraswoti PS	Morang	Warangi-3	394,500
164	Shree Mahaling Lower Secondary School	Bajhang	Juji Jaunar	1,000,000
165	Shree Durga Higher Secondary School	Bajhang	Thali, Naubisie	1,000,000
166	Shree Chaudhary Higher Secondary School	Bajhang	Juji Jaunar	900,900
167	Nepal Rastriya Ni. Ma. Vi.	Mugu	seri-9	843,184
168	Kailash LSS	Humla	Kalika-5	1,000,000
169	Sufakhet PS	Humla	Kalika-3	1,000,000
170	Bhagwati PS	Jumla	lamra-8	991,680
171	Jalpadevi PS	Kalikot	Rachuli-1	940,710
172	Kalika SS	Kalikot	Rachuli	938,760
173	Panchodaya HSS	Mugu	Skathik	900,750
174	Kalika HSS	mugu	Shreekot-4	919,905
175	Seri VDC Office	Mugu	Seri-6	889,500
176	Durga SS	Solukhumbu	Ranchuli-6	937,110
177	Sri Durga HSS	Bajhang	Simali, Pipalkot	978,150
178	Sri Bidhyeswor HSS	Bhojpur	Gogane 2	995,088
179	Shree Singhadevi Higher Secondary School	Bhojpur	Lekharka-05	840,274
180	Shree Diwakar Memorial School	Chitwan	Bagauda-09, Madi	953,700
181	Shree Nawalpur Lower Secondary School	Okhaldhunga	Palpu-09	871,500
182	Shree Shivaduti Lower Secondary School Tapkekanda	Okhaldhunga	Kalikadevi-01, Kamilrychaur	867,750
183	Shree Bal Jyoti Secondary School	Okhaldhunga	Kalikadevi-01	867,750
184	Shree Kadeni Secondary School	Okhaldhunga	Thulachhap-08	871,500
185	Shree New Kyaneswar Youth Club	Sindhuli	Kyaneswar	869,250
186	Saraswati Ma.Vi.	Jajarkot	Nayakwada-7	1,000,000
187	Ram Ma. Vi.	Jajarkot	Khaltakura, Jhapra	1,000,000
188	Bijaya Ma. Vi.	Jajarkot	Chhiprena, Punma	1,000,000
189	Saraswati Ma. Vi.	Jajarkot	Punma	1,000,000
190	Rastriya Ma. Vi.	Kailali	Khailad-9	999,600
191	Rastriya Ma. Vi.	Kailali	Rampur	999,600



S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
192	Saraswati Ni. Ma.Vi.	Siraha	Kachanari-4	1,000,000
193	Nepal Rastriya Ni. Ma. Vi.	Surkhet	Gumi-8	1,000,000
194	Shree Ganga SS	Accham	Tesinghe	1,000,000
195	Sri Bidhya Mandir SS	Dolpa	Majfal 3	940,500
196	Sanigaun Sub- Health Post	Jumla	Sanigaun	634,800
197	Shree Baghbairab Madhyamik Vidhyalaya	Makawanpur	Betini-05	873,000
198	Bhramakali LSS	Makawanpur	Manahari-6	1,000,000
199	Shree Gaurishankar Higher Secondary School	Palpa	Mityal-03	873,000
200	Shree Lumde VDC Office	Illam	Lumde-6	729,000
201	Shree Jana Jyoti Higher Secondary School	Kalikot	Majhmela-04, Bharta	895,950
202	Shree Bhawani Madhyamik Vidhyalaya	Makawanpur	Kalikatar-06, Katunjey	1,000,000
203	Shree Moulabung LSS	Panchthar	Hangmung-3	865,500
204	Shree Himalaya Fulbari Madhyamik Vidhyalaya	Rolpa	Mirul-05, Tutu	898,200
205	Shree Bhagwati Lower Secondary School	Rolpa	Kukurgarey-05, Jinawang	898,200
206	Shree Ganesh Lower Madhyamik Vidhyalaya	Rolpa	Badadhunga Jinawang	895,500
207	Shree Sidhartha Lower Secondary School	Rolpa	Oillam Joth	895,500
208	Shree Nepal Rastriya Lower Secondary School	Rolpa	Ratamata, Pakhapani-04	897,000
209	Nubri Culture & Youth Development Society	Gorkha	Gorkha	568,620
210	Shree Janajyoti PS	Gorkha	Sama-3	497,753
211	Shree Himchuli PS	Gorkha	Chhak-4	497,753
212	Shree Gumba Himali PS	Gorkha	Bihi	497,753
213	Shree Quark PS	Gorkha	Pork-5	497,753
214	Shree Ma. Vi.	Dang	Satbariya	993,600
215	Shree Ni. Ma. Vi.	Dang	Tulsipur	992,100
216	Rapti Ni.Ma.Vi	Dang	Baghmare	992,100
217	Shivashakti Ma. Vi.	Dang	Rajpur-9	992,100
218	Saraswati Ma. Vi.	Rolpa	Budhagau	1,000,000
219	Rolbang Ma. Vi.	Rolpa	Jelbang	1,000,000
220	Himalaya Ma. Vi.	Rolpa	Dhawang	1,000,000
221	Namuna Ma. Vi.	Rolpa	Kasala	1,000,000
222	Bageshwari Ni. Ma.Vi.	Rolpa	Bhawang	1,000,000
223	Gurudaya Ni. Ma. Vi.	Rolpa	Sunwang	1,000,000
224	Nepal Ma. Vi.	Rolpa	Kotgau	1,000,000
225	Namli Ni. Ma.Vi.	Rolpa	Jankot	1,000,000
226	Nepal Rastriya Ni. Ma. Vi.	Rolpa	Dhawang	1,000,000
227	Sahid Bharat Smriti Janabadi Namuna Vi	Salyan	Shivarath	992,100
228	Shree Jana Prakash LSS	Humla	Maila-9	937,080
229	Shree Janajagriti PS	Humla	Madana-8	937,080
230	Shree Chandra Prakash Secondary School	Humla	Maila-6	937,080
231	Shree Janakalyan SS	Rukum	Kholagaun 3	1,000,000
232	Kalika Ma. Vi.	Accham	Hattikot	1,000,000
233	Annapurna Uchcha Ma.Vi.	Accham	Kalagau	1,000,000
234	Bidhya Prabodhini Uchcha Ma.Vi	Accham	Ghodasain	1,000,000
235	Tripurasundari Ni.Ma.Vi	Accham	Payal	1,000,000
236	Ghughurkot Ma. Vi.	Accham	Ghughurkot	1,000,000

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
237	Gaurishankar Ma. Vi.	Dolakha	Bigu-6	1,000,000
238	Dibyashwari Ni. Ma. Vi.	Dolakha	Kalinchock-2	1,000,000
239	Pragatishil Milijuli Ni.Ma.Vi.	Dolakha	Babare	1,000,000
240	Hilepani Sanskrit Uchcha Ma.Vi.	Dolakha	Lamidanda	1,000,000
241	Kalinchock Ni.Ma.Vi.	Dolakha	Thamichangu 1	1,000,000
242	Chaukhan Ma. Vi.	Doti	Ladagada-5	1,000,000
243	Nandadevi Ma. Vi.	Kalikot	Malkot-3	1,000,000
244	Shanti Uchcha Ma.Vi.	Kalikot	Malkot	1,000,000
245	Janata Uchcha Ma.Vi.	Kalikot	Rupana	1,000,000
246	Janaprabhat Uchcha Ma.Vi.	Kalikot	Lalu	1,000,000
247	Saraswati Ni. Ma.Vi.	Kalikot	Lalu	1,000,000
248	Shaktishali Ni. Ma.Vi.	Makawanpur	Bharta-1	1,000,000
249	Kalika Ma. Vi.	Makawanpur	Khairang	1,000,000
250	Dhuwang Ma. Vi.	Makawanpur	Bharta-7	1,000,000
251	Shree Somar Bhomar Secondary School	Gulmi	Haadhade-6	1,000,000
252	Shree Janajyoti Campus	Gulmi	Purkotdaha	1,000,000
253	Shree Riyaley Secondary School	Gulmi	Sirseni-4	1,000,000
254	Shree Dipak Secondary School	Gulmi	Bhanbhane	1,000,000
255	Shree Ganodaya Secondary School	Gulmi	Pipaldhara-4	1,000,000
256	Shree Jamal Pokhari Secondary School	Gulmi	Chaaphile-3	1,000,000
257	Shree Nepal Rastriya LSS	Mugu	Dumana	1,000,000
258	Shree Baladevi LSS	Okhaldhunga	Papalu-1	994,350
259	Kailash Multiple Campus	Accham	Kalagun	999,750
260	Gauri Secondary School	Dailekh	Bhairikalikathum	1,000,000
261	Shree Saraswoti H.S.S.	Dailekh	Khadakundu	1,000,000
262	Shree Saraswoti S.S.	Dailekh	Paganathi	1,000,000
263	Dependra H.S. School	Nawalparasi	Banimanipur	1,000,000
264	Pragati L.S.S.	Palpa	Jamire	1,000,000
265	Satyawati H.S.S	Palpa	Satyawati-4	1,000,000
266	Bal Jyoti S.S.	Rukum	Purthimkanda	1,000,000
267	Samudayik Secondary School	Surkhet	Lekh Pokhara	1,000,000
268	Shree Bijayasaini HSS	Dadeldhura	Belapur-8, Chamachaud	969,450
269	Shree Ghiul Devi LSS	Sindhupalchowk	Golche-3,Sanchagaun	969,450
270	Shree Daspallepani SS	Accham	Sokot	973,050
271	Shree Malika LSS	Accham	Dogdina Kuskot- 6,Selgaun	973,050
272	Shree Ganesh SS	Baitadi	Iekambasti, Thalakanda-7	1,000,000
273	Shree Kulau HSS	Baitadi	Kulau-2	1,000,000
274	Shree Kusumeshwor	Banke	Khas kuma-2	1,000,000
275	Mahakali L.S.S.	Bhojpur	Mulpani	1,000,000
276	Mahalaxmi H.S.S.	Dhading	Baseri	1,000,000
277	Shivalaya S.S.	Dhading	Baseri	1,000,000
278	Shree Mangala Devi SS	Dhading	Marpak-7	1,000,000
279	Gandaki S.S.	Gorkha	Thumi-5	1,000,000
280	Ramodaya S.S.	Jajarkot	Dasera	1,000,000

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
281	Shree Laxmi SS	Jajarkot	Punma-5	988,020
282	Shree Bhume LSS	Myagdi	Takam-8	1,000,000
283	Shree Jana Jagriti SS	Myagdi	Malkabang	1,000,000
284	Bhanudaya Secondary School	Nawalparasi	Dhurkot	1,000,000
285	Shree Janata LSS	Nawalparasi	Bemanipur	1,000,000
286	Shree Gahate LSS	Palpa	Balddenggadi-5	1,000,000
287	Shree Kalika LSS	Palpa	Juthapauwa	1,000,000
288	Shree Laxmi PS	Palpa	Aargale	1,000,000
289	Buddhalaya P.S.	Ramechhap	Khadadevi-5	1,000,000
290	Chandeshwori H.S.S.	Ramechhap	Priti	1,000,000
291	Janata H.S.S.	Ramechhap	Rampur	1,000,000
292	Mahrudra S.S.	Ramechhap	Himganga	1,000,000
293	Nababuddha L.S.S.	Ramechhap	Gagaltar	1,000,000
294	Shree Mahankali LSS	Ramechhap	Khadadevi-3	1,000,000
295	Shree Saraswati PS	Ramechhap	Khadadevi	1,000,000
296	Balkalyan L.S.S.	Salyan	Siddeheshwor-7	1,000,000
297	Deurali S.S.	Salyan	Siddeshwori-5	1,000,000
298	Laxmi S.S.	Salyan	Jhimpe	1,000,000
299	Shree Nepal Rastriya LSS	Surkhet	Motisera, Gutu-8	1,000,000
300	Janapremi H.S.S.	Sindhuli	krunthku-7	946,988
301	Bal bikash Lower Secondary School	Bajhang	Jayaprithive	967,500
302	Bhagwati Lower Secondary School	Bajhang	Sunkuda	967,500
303	Shree Malika Madhyamik Vidhyalaya Timu	Accham	Dhungachalna-02	967,500
304	Bhumidev Lower Secondary School	Bajhang	Bhamechaur	967,500
305	Mahendra Lower Secondary School	Bajhang	Pipalkot	967,500
306	Radio Bajhang	Bajhang	Jayaprithive	967,500
307	Saraswoti Lower Secondary School	Bajhang	Bhamechaur	1,000,000
308	Sharada Secondary School	Bajhang	Deulikot	967,500
309	Sitaram Secondary School	Bajhang	Deulikot	967,500
310	Shree Rastriya Primary School	Chitwan	Daahakhani-07	536,250
311	Tapoban S.S.	Darchula	Tapoban-5	967,500
312	Giri chuaka Ma. Vi.	Doti	Girichauka	967,500
313	Nepal Rastriya L.S.S	Surkhet	Gutu-3	943,430
314	Sarkidevi Pra. Vi.	Humla	Kalika	1,000,000
315	Lamra sub-health post	Jumla	Lamra	944,265
316	Rinamoksha U. Ma. Vi.	Jumla	Dillichaur	942,210
317	Deuti madu LSS	Kalikot	Chhapre	938,460
318	Kalika U. Ma Vi.	Kalikot	Chhapre	936,660
319	Karnali U. Ma. Vi.	Kalikot	Khin	941,460
320	Panchakalika Ma. Vi.	Kalikot	Ramnakot	937,260
321	Bhairb Pra. Vi	Mugu	Seri	877,500
322	Romal Pra. Vi.	Mugu	Jima	911,250
323	Shrikot VDC Office	Mugu	Srikot	736,500
324	Kunathari Health Post	Surkhet	Kunathari	969,570
325	Pokharikanda Health Post	Surkhet	Pokharikanda	969,570
326	Shree Bhairabi Nepal Rastriya LSS	Surkhet	Taranga	969,570
327	Shree Nepal Rastriya LSS	Surkhet	Hariharpur-3, Srichaur	969,570

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
328	Shree Nepal Rastriya LSS	Surkhet	Hasegaun, Salkot-2	969,570
329	Shree Nepal Rastriya SS	Surkhet	Budakhali, Chapre-4	969,570
330	Shree Surya Jyoti SS	Surkhet	Lamakhali, Pokharikanda-6	969,570
331	Shree Surya Prakash HSS	Surkhet	Salkot-5, Palaute	969,570
332	Shree Yagya Jyoti LSS	Surkhet	Pokharikada-3	969,570
333	Kalika S.S.	Dailekh	Lalikanda-1	1,000,000
334	Laxmi Prapti H.S.S.	Jajarkot	Dhime-5	915,196
335	Balkalyan S.S.	Rukum	Peugha-9	1,000,000
336	Janasrijan H.S.S.	Surkhet	Tatopani-5	1,000,000
337	Jibanjyoti H.S.S.	Surkhet	Katalkot-4	1,000,000
338	Prathamik Health Center	Surkhet	Ablaching	809,190
339	Chyasmitar Sub-Health Post	Khotang	Diktel	1,000,000
340	Shree Mahadev Ma. Vi.	Dailekh	Kusapani-8	999,300
341	Balak Shanti Primary School	Banke	Binauna-8	1,000,000
342	Birendra U. Ma. Vi.	Jajarkot	Jungathapa-5	1,000,000
343	Narayani U. Ma. Vi.	Jajarkot	Karkigaun	1,000,000
344	Balkesh S.S.	Tanahu	Chhipchhipe-02	911,640
345	Shree Laxmi Adrsha Ma. Vi.	Ilam	Mahamai-8	996,225
346	Shree Amlishe Bhanjyang PS	Ilam	Amlishe, Dhanabari-9	996,225
347	Shree Binti Vinayak PS	Ilam	Mahamai-1, Palashe	996,225
348	Shree Chandra Surya PS	Ilam	Danabari-9	996,225
349	Shree Deepjyoti PS	Ilam	Mahamai-4	996,225
350	Shree Jana Siddha PS	Ilam	Mahamai-9, Kalkatte	996,225
351	Shree Janajyoti PS	Ilam	Bajho-2	996,225
352	Shree Janata PS	Ilam	Mahamai-9, Dungdunge	996,225
353	Shree Sana Tara Samudayik S	Ilam	Mahamai-9, Dungdunge	996,225
354	Shree Singhadevi SS	Ilam	Mahamai-2	996,225
355	Shree Srijanga PS	Ilam	Mahamai-2	996,225
356	Shree Chandrodaya LSS	Panchthar	Aarubote-8	995,475
357	Shree Dhuwakhola LSS	Panchthar	Wolane-4	995,475
358	Devthala Ma. Vi.	Baitadi	Basku Mahakali	994,320
359	Dugrikham Ma. Vi	Baitadi	serilek pancheswor	994,320
360	Bageshwori HSS	Jajarkot	Pajaru-5	999,750
361	Bhagwati L.S.S.	Jajarkot	Pajar-02, Dhauni	999,000
362	Kalika Sec. School	Jajarkot	Pajaru-3	999,750
363	Sita Ma. Vi.	Jajarkot	Karkijunja-8	999,750
364	Shree Bhagwati Madhyamik Vidhyalaya	Doti	Lamikhal-05, Talara	1,000,000
365	Aampur Sec. School	Baitadi	Rodidewal-9	583,200
366	Bijayapur H.S.S	Baitadi	Rodidewal-7	583,200
367	Nagarchan H.S.S	Baitadi	Giregada-2	583,200
368	Sunkunda Health Post	Bajhang	Sunkuda	1,000,000
369	Syandi Health Post	Bajhang	Syandi	1,000,000
370	Devitar L.S.S	Dolakha	Chilankha-4	996,000
371	Pakhapani Health Post	Rolpa	Pakhapani-7	793,500

S.N	Owner/Project Name	District	VDC	Approved Subsidy (NRs)
372	Pandaun Health Post	Kailali	Pandaun	1,000,000
373	Shree Bhairab Madhyamik Vidhyalaya	Kailali	Nigali-02, Allad	1,000,000
374	Shree Kalika Lower Secondary School	Kailali	Chirkatte-02, Pandaun	1,000,000
375	Shree Malika Lower Secondary School	Kailali	Nawali-07, Pandaun	1,000,000
376	Saraswoti L.S.S.	Rolpa	Pakhapani-7	748,500
377	Shree Mahadev Ma. Vi.	Baitadi	Thalakanda	583,200
378	Shree Bhwaneshwori Ma. Vi.	Baitadi	Khairkot	583,200
379	Shree Bhuwanvaskar Ma. Vi.	Baitadi	Chamdekharka	583,200
380	Shree Sharada Ma. Vi.	Baitadi	Dhungad	583,200

#### J. List of New MSMEs Established (As per approved SAF)

SN	Districts	DPRC/BPRC Approved			REF Approved		
		New	Upgrading	Employment	New	Upgrading	Employment
		MSMEs	MSMEs		MSMEs	MSMEs	
1	ACCHAM	14	6	64	12	6	58
2	BAGLUNG	75	33	182	62	28	152
3	BAITADI	14	0	30	14	0	30
4	BAJHANG	32	9	81	21	7	56
5	BAJURA	42	7	94	30	6	70
6	BHOJPUR	10	0	11	6	0	7
7	DAILEKH	10	1	23	5	1	13
8	DARCHULA	10	4	35	8	4	30
9	DHADING	8	6	15	8	6	15
10	DOLAKHA	15	10	237	14	9	219
11	DOTI	11	0	24	8	0	18
12	GORKHA	20	9	43	15	7	33
13	GULMI	23	9	49	12	5	27
14	HUMLA	12	1	31	12	1	31
15	ILAM	2	6	14	1	6	13
16	JAJARKOT	17	4	49	17	4	49
17	JUMLA	21	11	116	21	11	116
18	KASKI	2	2	5	2	2	5
19	KAVREPANCHOWK	13	9	41	13	7	38
20	KHOTANG	25	6	47	18	6	37
21	LAMJUNG	6	0	6	6	0	6
22	MANANG	16	3	54	7	1	23

SN	Districts	DPRC/BPRC Approved			REF Approved		
		New	Upgrading	Employment	New	Upgrading	Employment
		MSMEs	MSMEs		MSMEs	MSMEs	
23	MYAGDI	0	2	5	0	2	5
24	NAWALPARASI	11	2	15	8	2	12
25	OKHALDHUNGA	10	7	29	10	7	29
26	PALPA	13	0	17	13	0	17
27	PANCHTHAR	39	2	76	30	1	58
28	ROLPA	11	1	14	3	1	5
29	RUKUM	26	8	85	18	8	65
30	SALYAN	4	0	6	4	0	6
31	SANKHUWASABHA	16	3	30	13	0	21
32	SINDHULI	25	2	38	25	2	38
33	SOLUKHUMBU	16	10	39	10	7	26
34	SURKHET	13	2	47	12	2	44
35	SYANGJA	15	1	20	15	1	20
36	TANAHU	4	3	13	4	3	13
37	TAPLEJUNG	44	6	81	29	5	56
38	TERHATHUM	9	2	21	7	0	14
39	UDAYAPUR	7	0	9	3	0	4
	<b>TOTAL</b>	661	187	1796	516	158	1428

#### K. Employment increased by MSME types

Number of Employment generated through		
New and Upgraded MSMEs	IGAs	Total
1796	992	2788

## 7.3 Credit Fund/Financing:

### 7.3.1 Status of Biogas Credit Fund

SN	Type of Financial Institution	Active no. of MFIs	Loan Disbursement	Loan Recovery	Outstanding Loan	Non-Overdue Loan	Overdue				
							0-3 Months	3-6 Months	6-12 Months	>12 Months	Total
1	Agriculture Co-operatives	6	11,975,998	10,090,647	1,885,351	1,403,557	0	178,611	74	303,109	481,794
2	Development Banks	1	67,535,439	63,035,439	4,500,000	0	0	0	0	4,500,000	4,500,000
3	Financial NGOs	2	23,177,500	22,714,544	462,956	462,649	0	307	0	0	307
4	Milk Co-operatives	3	4,706,000	3,991,020	714,980	489,769	0	75,081	150,000	130	225,211
5	Multipurpose Co-operatives	20	51,108,471	48,201,568	2,906,903	2,254,837	0	230,507	36,951	384,608	652,066
6	Other Institutions	4	17,158,467	16,321,999	836,468	436,468	0	0	0	400,000	400,000
7	Saving & Credit Co-operatives	25	130,834,963	124,163,493	6,671,470	3,496,513	0	560,044	378,788	2,236,125	3,174,957
8	Womens Co-operatives	10	50,338,719	48,380,741	1,957,978	1,282,150	0	40,674	0	635,154	675,828
	<b>Grand Total</b>	<b>71</b>	<b>356,835,557</b>	<b>336,899,451</b>	<b>19,936,106</b>	<b>9,825,943</b>	<b>0</b>	<b>1,085,224</b>	<b>565,813</b>	<b>8,459,126</b>	<b>10,110,163</b>

### 7.3.2 Lists of micro/pico hydro projects financed through Credit Financing:

#### A. Projects financed by Prabhu Bank, then KIST Bank:

SN	Name of MHP	Location
1	Naubise Khola MHP	Naubise, Dhading
2	Milti Khola Dosro MHP	Danda Kharka, Dolakha
3	Arun Khola MHP "A"	Rahabas, Palpa
4	Jhumsa Khola MHP	Gothadi, Palpa

## B. Project Financed by Nabil Bank

SN	Name of MHP	Location
1	Syaure Bhumi MHP	Nuwakot

## C. Projects financed by Clean Energy Development Bank:

SN	Name of MHP	Location
1	ARKHET KHOLA MICRO HYDRO PROJECT	Gorkha
2	KHORLABESI LUNGHET KHOLA LAGHU JALBIDYUT	Gorkha
3	TESHRO HUNDI KHOLA LAGHU JALBIDHUT	Gorkha
4	Rakula Khola Micro Hydro Project	Udaypur
5	Pati Khola Khudurki MHP	Ramechhap
6	Phedi Khola MHP	Okhaldhunga
7	Silkhukhola Palastar MHP	Okhaldhunga
8	SHREE CHIMAL GRAMIN BIDHUT S.S.LTD. (Sobuwa Khola II)	Taplejung
9	DHANG DHANGE KHOLA LAGHU JAL B.P	Taplejung
10	Akuwa Khola MHP	Bhojpur
11	SIWA KHOLA MHP "KHA"	Panchthar
12	Nakham Khola Community Micro Hydro Power Users' Association	Khotang
13	Poku Dovan Khola MHP	Ramechhap
14	Manglakharka Sisne Phedi Micro Hydro Project	Okhaldhunga
15	Juke Dovan Likhu Khola MHP	Okhaldhunga
16	Sinduredhunga Lidingkhola Micro Hydro User Committee	Khotang
17	GHATTE KHOLA COMMUNITY MHP	Solukhumbu
18	JWALAMAI LODING KHOLA MHP	Solukhumbu
19	Jhyalla Khola MHP	Jhyalla Khola
20	Chhopta Khoka MHP	Gorkha
21	ADHERI KHOLA DARAUDI DOVAN MHP	Gorkha



#### D. Projects financed by Himalayan Bank

SN	Name of MHP	Location
1	Khani Khola	Kavrepalanchowk
2	Pacific Power	Ramechhap
3	Thulo Khola	Okhaldhunga
4	Tap Khola/Lumju	Khotang
5	Swaratap Khola	Khotang
6	Marinhyutar	Sindhuli
7	Banakhu	Kavre
8	Durlung	Milche, Kavrepalanchowk
9	Midim Khola MHP	Lumjung

## 7.4 Beneficiaries:

S.N.	Programs/activities	Benefited				Caste/Ethnicity/Religion (% of the benefited population)				
		Household	Population	Male	Female	Janjati	Dalit	Madhesi	Muslim	Others (B/C/T)
1	Micro/Mini/pico hydro	22,733	110,937	53,804	57,133	15.2	4.8	10.6	4.4	65.0
2	IWM	27,866	135,986	65,953	70,033	15.2	4.8	10.6	4.4	65.0
3	SSHS	10831	43324	21229	22095	NA	NA	NA	NA	NA
4	SHS	92330	369320	180967	188353	NA	NA	NA	NA	NA
5	PVPS	1400	8565	4378	4308	66	9	0	0	25
6	Solar Dryer	26	130	64	66	46	0	0	0	54
7	Biogas- Domestic	30196	150980	14492	15704	52	1	1	0	46
8	ICS- Metal	6,746	32,380	16,123	16,257	59	9	0	0	33
9	ICS- Mud	281,469	15,50,683	782,318	766,537	30	17	27	7	19
10	MSMEs	1054	5,144	900*	154**	38	6	NA	NA	56
11	IGA	3217	15,699	1245#	1972##	47	18	NA	NA	35

\* Number of man-owned MSMEs

\*\* Number of woman-owned MSMEs

# Number of man-owned IGA

## Nuber of woman-woned IGA

## 7.5 Year wise Breakdown of NRREP Targets:

Technology /Activity	Unit	5 year target	Year 1 Plan	Year 2 Plan	Year 3 Plan	Year 4 Plan	Year 5 Plan
Mini/Micro Hydro Power	kW	25,000	3,000	4,500	5,500	6,000	6,000
Improved Water Mill	Nos.	4,000	1000	750	750	750	750
Solar PV Home Systems and Small	Nos.	600,000	90000	125,000	125,000	125,000	135,000
Institutional Solar PV Systems and drinking water pumping systems	Nos.	1,550	65	325	325	385	450
Solar Dryer and cooker	Nos	7,500	0	500	1,500	2,000	3,500
Mud ICS	Nos.	440,000	100,000	100,000	75,000	75,000	90,000
Metallic ICS	Nos.	35,000	7,000	5,000	7,000	9,000	7,000
Domestic Biogas Plants	Nos.	130,000	19,000	30,000	50,000	19,000	15,000
Institutional/community/ Commercial/MSW Biogas	Nos.	1,200	0	33	334	408	425
Productive energy use (New and upgraded MSMEs)	Nos	4,100	50	300	1,200	1,800	750
IGA	HH	15,300	0	1,000	6,000	6,000	2,300

## 7.6 Major Capacity Building Initiatives

Name of Training	Organizer (Component)	Duration (days)	Target Group	People trained (No.)
Training to Assistant Sub-Engineers of RSCs on Climate and Carbon related activities	CCU	3	Assistant Sub-engineers of RSCs	9
Training on GRB and various perspective of GESI	GESI	4	AEPC/NRREP and RSC	M-38, F-23, T-61
Vocational training on House wiring and Mobile Phone repairing	GESI	90	Beneficiaries from RET catchment area	M-15, F-5, T-20

Name of Training	Organizer (Component)	Duration (days)	Target Group	People trained (No.)
“Business Counseling and Participatory Market System Development”.	PEUC	10	BPOs and ELOs	32
“Business Counseling and Participatory Market System Development”. (2 events)	PEUC	7	LEDfS	45
Training of Trainers on Advance Computer Course	PEUC	7	Computer Instructors	24
Training of Trainers on LEDC management Training for Local resource persons	PEUC	15	Local Facilitators	18
Skill Training – Dairy	PEUC	5	Dairy Entrepreneurs	25
Skill Training – Advanced Tailoring	PEUC	21	Tailoring Entrepreneurs	19
Skill Training –Lokta Paper Making (2 events)	PEUC	7	Lokta Entrepreneurs	34
Business Management Training for Women Entrepreneurs	PEUC/RERL	5	Women Entrepreneurs	21
Business Management Training for Computer Institute’s entrepreneurs	PEUC/RERL	3	Entrepreneurs	22
Business Management Training for Lokta Entrepreneurs	PEUC/RERL	5	Lokta Entrepreneurs	19
Business Management Training for Dairy Farmers	PEUC/RERL	5	Dairy Farmers	19
Orientation training to Roster Candidate of – “Mini/Micro Hydro Project Manager”.	CESC	6	Mini / Micro Hydro Project Manager	14
Pico Hydro Operation and Management Training	CESC	7	Operator and Managers of peltric Set project	24
2 Batches of Survey and Design Training	CESC	7	Technical persons of Consulting Companies	59
Two batches of IWM installation training	CESC	5	New LPOs	21
IWM end-use promotion training to RSC & LPO	CESC	5	RSC and LPO	36
Repair and Maintainance training to LPO	CESC	2	LPO	13
Training for third-party monitoring consultants	MQA	5	Team leaders and field monitors of contracted third-party monitoring consultants	109
Third-party monitoring data entry training	MQA	1	Team leaders and data entry staff of	32

Name of Training	Organizer (Component)	Duration (days)	Target Group	People trained (No.)
			contracted third-party monitoring consultants	
Trainin on pico/micro/mini hydro projects power output and househols verification	MQA	8	Independent POHV Inspectors	29
Training on ICS/IICS dissemination	BESC	3	DDCs A/ECCOs	49
Training on ICS/MICS dissemination	BESC	5	District Coordinator of High Hills Districts	8
Installer training on MICS installation	BESC	2	installer of Pre-Qualified companies	79
Total				

## 7.7 District-wise number of Biogas Digesters included in Biogas CPAs (CPA-5, CPA-6 and CPA-7)

Districts	CPA-5	CPA-6	CPA-7	Total	Districts	CPA-5	CPA-6	CPA-7	Total
Arghakhanchi	7	15	25	47	Mahottari	138	147	180	465
Baglung	35	15	62	112	Makwanpur	2652	1944	835	5431
Baitadi	2	3	3	8	Morang	547	308	552	1407
Bajhang	148			148	Myagdi	33	14	12	59
Banke	434	520	403	1357	Nawalparasi	432	287	350	1069
Bara	458	338	299	1095	Nuwakot	277	395	470	1142
Bardiya	900	1099	875	2874	Okhaldhunga	44	37	46	127
Bhaktapur	14	11	12	37	Palpa	401	358	256	1015
Bhojpur	9		1	10	Panchthar	36	61	90	187
Chitwan	870	889	690	2449	Parbat	9	8	19	36
Dadeldhura	15	4		19	Parsa	72	144	59	275
Dailekh			3	3	Pyuthan	80	31	137	248
Dang	1327	827	548	2702	Ramechhap	181	41	29	251

Districts	CPA-5	CPA-6	CPA-7	Total	Districts	CPA-5	CPA-6	CPA-7	Total
Darchula	18	14	9	41	Rasuwa	112	133	65	310
Dhading	631	558	701	1890	Rautahat	160	270	225	655
Dhankuta	17	10	91	118	Rolpa	6	5	30	41
Dhanusa	33	44	38	115	Rukum	5			5
Dolakha	76	128	90	294	Rupandehi	287	61	278	626
Doti	25		3	28	Salyan	2	12	22	36
Gorkha	347	338	616	1301	Sankhuwasabha	28	26	30	84
Gulmi	37	19	43	99	Saptari	16	8	84	108
Ilam	373	287	934	1594	Sarlahi	365	320	290	975
Jajarkot	6			6	Sindhuli	443	1055	1213	2711
Jhapa	925	666	1027	2618	Sindhupalchowk	126	293	220	639
Kailali	1630	3119	2172	6921	Siraha	42	22	11	75
Kalikot	15	9	17	41	Solukhumbu	5	5		10
Kanchanpur	914	1523	766	3203	Sunsari	131	57	157	345
Kapilbastu	263	86	239	588	Surkhet	210	116	153	479
Kaski	594	225	384	1203	Syangja	433	289	403	1125
Kathmandu	16	10	35	61	Tanahu	1117	198	384	1699
Kavrepalanchowk	478	434	480	1392	Taplejung	5	16	4	25
Khotang	5	9	8	22	Terhathum	30	2	22	54
Lalitpur	109	81	72	262	Udayapur	277	305	839	1421
Lamjung	409	255	281	945	<b>Grand Total</b>	<b>19842</b>	<b>18504</b>	<b>18392</b>	<b>56738</b>

## 7.8 List of Districts with completed and on-going District Climate and Energy Plan Preparation

Pilot Districts before NRREP	Completed Districts (endorsed by DDCs) in 2014/15	List of ongoing districts
Ilam, Makwanpur, Mustang (3 districts)	Morang, Sunsari, Udaypur, Khotang, Solukhumbu, Dolakha, Ramechhap, Mahottari, Nuwakot Chotwan, Myagdi, Gulmi, Lamjung, Nawalparasi, Tanahun, Jajarkot, Jumla, Dailekh, Dang, Bardiya, Pyuthan, Bajhang, Bajura, Achham, Kailali (25 Districts)	-Gorkha, Manang, Kaski, Syangja, Rupandehi, Kapilbastu, Arghakhanchi, Palpa, Baglung, Parbat (initiated in 10 districts) -Final stage in Kavre District

## 7.9 POV Summary for 2014-15

### A. Summary table for POV

- Number of projects planned for POHV: 140
- Number of POHV concluded projects: 113
- Number deviated projects (with verified output power below the tolerance limit): 30
- Total power output as per the DFSs : 2620.75 kW (total of 113 completed projects)
- Power as per the POHV result: 2333.398 kW
- Total number households as per the DFSs: 27548
- Total number of households verified in the sites: 26764

**B. List of projects passing the POHV test**

SN	Projects Name	District	RSC	AS per DFS		MQA Unit			Company	Remarks
				kW	HH	Date of POV	Verified kW	Verified HH		
1	RE-POV Laxmi khola	Dhankuta	NCDC	40	363	1st March 2015	38.6	373	NMASS	RE-POV
2	Bhadi Khola PHP	Sankhuwasab	NCDC	1.5	13	6th Mar 2015	1.63	13	Singh Bahini	
3	Badahare Khola	Bhojpur	NCDC	5	72	8th Mar 2015	5.49	80	Singh Bahini	
4	Mahavir Khola PHP	Bhojpur	NCDC	3	37	12th March 2015	3.16	39	Singhabahini	
5	RE-POV	Bhojpur	NCDC	55	470	15th March 2015	52.51	390	Thapa Engineering	Re-POV
6	Buwa Khola II MHP	Bhojpur	NCDC	9	90	18th March 2015	8.31	110	KGKTC	
7	Sobuwa Khola II (90	Taplejung	NCDC	90	799	18th March 2015	92.4	799	Thapa Engineering	
8	Dhangdhang Khola	Taplejung	NCDC	20	177	29th March 2015	20.25	183	Krishna Grill	
9	Nuwa Khola Mude	Panchthar	NCDC	5	43	26th March 2015	4.81	50	Singhabahini	
10	Thawa Khola MHP	Ilam	NCDC	18	164	30th March 2015	19.19	141	Tej Energy Solution	
11	ThawakholaRaikar	Ilam	NCDC	20	190	6th April 2015	21.01	195	Thapa Engineering	
12	Sancho Khola PHP	Panchtar	NCDC	5	50	2nd April 2015	5.2	51	Gautam Energy	
13	Rigiwa Khola MHP	Panchthar	NCDC	50	459	12th April 2015	51.87	410	Rural & Alternative	
14	Seto Khola Jaributte	Panchthar	NCDC	2	17	10th April 2015	1.82	21	Singhabahini	
15	Thale Danda PHP	Terhathum	NCDC	3	28	4th April 2015	2.89	28	Singhbahini	
16	Bhadi Khola PHP	Udaypur	SCDC	2.5	24	12th March 2015	2.28	24	Nepal Power Solution	
17	Khari Khola PHP	Udaypur	SCDC	5	60	15th March 2015	4.62	60	Nepal Power Solution	
18	Rakchekhola PHP	Udayapur	SCDC	4.5	42	18th March 2015	4.07	42	Nepal Power Solution	
19	Tamajor Khola MHP	Sindhuli	REWSSP	15	145	11th May 2015	15.99	123	Technical Enginering	
20	Khani Khola MHP	Sindhuli	REWSSP	13	130	13th March 2015	12.1	110	Hydro Energy Concern P.	
21	Fosra Chhanga MHP	Ramechhap	REMREC	8	68	21st Jan 2015	7.3	68	D.L Energy Concern	
22	Seto Khola PHP	Ramechhap	REMREC	5	75	24th Jan 2015	9.11	75	Maa Shakti Engineering	
23	Chari Khola MHP	Ramechhap	REMREC	80	700	26th Jan 2015	88.36	722	Kathmandu Metal	
24	Charnalu Khola	Okhaldhunga	REMREC	12	115	29th Jan 2015	14.48	115	Epsom/Dhulikhel/ECoco	
25	Manglakharka Sisne	Okhaldhunga	REMREC	26.5	248	2nd Feb 2015	33.53	298	Multi Power	
26	Molung Khola	Okhaldhunga	REMREC	100	101	24th Jan 2015	100.4	897	Hydro Energy concern	
27	Jalakanyakamere	Solukhumbu	REMREC	15	185	27 Jan 2015	13.53	185	Axiom industies JV	



SN	Projects Name	District	RSC	AS per DFS		MQA Unit			Company	Remarks
				kW	HH	Date of POV	Verified kW	Verified HH		
28	Kali Khola PHP	Kavre	REMREC	3.75	62	1st April 2015	3.53	62	AG Power Company Pvt.	
29	Milti Khola I MHP	Ramechhap	REMREC	16.5	171	5th April 2015	17.02	139	Multi Service Link Nepal	
30	Sangepadhera IWM	Dolakha	REMREC	1.5	34	8th April 2015	1.36	34	Himchuli Multipurpose	
31	Pati Khola Khudurki	Ramechhap	REMREC	17.5	217	12th April 2015	17.15	220	Tej Energy Solution	
32	Dude Khola	Okhaldhunga	REMREC	11	131	16th April 2015	12.37	116	Nepal Yantrashala	
33	Silkhu Khola	Okhaldhunga	REMREC	30	313	21st April 2015	38.92	242	Rural and Alternative	
34	Andheri Khola MHP	Dhading	RESDTN	8	67	14th feb 2015	7.49	55	Motherland	
35	Ling Khola MHP	Gorkha	RESDTN	8	155	17th Feb 2015	10.28	155	AG Power	
36	Syaurebhumi MHP	Nuwakot	RESDTN	23	240	23rd feb 2015	23.85	160	Universal Consultancy	
37	Nirindi Khola PHP	Nawalparasi	RESDTN	3	42	26th April 2015	2.76	43	Motherland Energy	
38	Boudi khola PHP	Nawalparasi	RESDTN	3.5	47	15th May 2015	3.2	47	DL Energy Concern Pvt.	
39	Baudi Khola I MHP	Nawalparasi	RESDTN	11	169	10th May 2015	10.6	238	DL Energy Concern Pvt.	
40	Boudi Khola Labe	Nawalparasi	RESDTN	2	30	17th May 2015	1.81	47	DL Energy Concern Pvt.	
41	Phulmadi Khola	Nawalparasi	RESDTN	6.5	128	20th May 2015	6.6	128	Gautam Energy	
42	Kwadi khola PHP	Tanahun	RESDTN	5	43	22nd May 2015	4.9	43	Rural & Alternative	
43	Tintar IWME Project	Makwanpur	RESDTN	2	25	24th April 2015	1.913	28	Nepal Power Solution	
44	Laiserang khola PHP	Makwanpur	RESDTN	4	57	26th April 2015	4.051	57	Nepal Power Solution	
45	Murlung Khola MHP	Kaski	DCRDC	25	41	26th May 2015	25.3	41	Hydro Energy Concern,	
46	Chanchalghat MHP	Baglung	DCRDC	100	918	3rd April 2015	106.74	918	Oshin Power Service,	
47	Badigad MHP	Gulmi	DCRDC	100	915	6th April 2015	118.5	912	Thapa Engineering	
48	Re - POV	Baglung	DCRDC	8	74	10th April 2015	7.97	78	Seimens Hydro	Re-POV
49	Jhumsa Khola II	Palpa	DCRDC	30	249	7th April 2015	30.33	259	Thapa Engineering	
50	Baudi Khola MHP	Palpa	DCRDC	11	157	12th April 2015	11.95	157	Nepal Energy	
51	Chhyangchhyangdi	Palpa	DCRDC	2.8	69	15th April 2015	3.1	70	Khanal Engineering and	
52	Veng Khola MHP	Rolpa	BASE	20	190	21st April 2015	20.08	160	Nepal Yantrashala	
53	Nang Khola MHP	Rolpa	BASE	38	323	23rd April 2015	42.14	320	Nepal Yantrashala	
54	Cheura Gad MHP	Rolpa	BASE	22	343	26th April 2015	21.79	231	Manaslu Energy P. Ltd.	
55	KunpaSanghura	Rolpa	BASE	60	572	2nd May 2015	58.84	594	CRC Nepal P. Ltd.	
56	Sanghura Khola	Rolpa	BASE	65	749	5th May 2015	67.82	824	A.G. Power Company P	

SN	Projects Name	District	RSC	AS per DFS		MQA Unit			Company	Remarks
				kW	HH	Date of POV	Verified kW	Verified HH		
57	Tamghas Khola PHP	Rolpa	BASE	7	70	8th May 2015	6.69	71	Techno Village	
58	Kagmara Khola	Dolpa	BASE	15	86	22nd Mar 2015	15.48	84	Great Nepal	
59	Chhamgad	Dailekh	ASTHA	10.5	185	24th Feb 2015	9.77	168	A.G Power	
60	Khamari khola	Surkhet	ASTHA	53	620	4th Mar 2015	51.99	620	Nepal Energy	
61	Bijubidhayapur	Surkhet	ASTHA	11	254	1st Mar 2015	10.02	253	North Engineering	
62	Juwanadi MHP	Jumla	ASTHA	14	118	20 May 2015	21.43	141	Energy Prabhadhan	
63	DhanchauriPanimul	Jumla	ASTHA	20	287	22nd May 2015	20.003	355	North Engineering	
64	Dari Khola MHP	Jumla	ASTHA	25	247	24th May 2015	23.973	274	NMASS	
65	Ruparanikhola MHP	Jumla	ASTHA	16	175	23rd May 2015	16.01	240	Great Nepal Pvt.Ltd	
66	Sangta khola	Jumla	ASTHA	11	115	25th May 2015	10.66	116	Technical Engineering	
67	Maluwafokta MHP	Jumla	ASTHA	31	420	28th May 2015	31.87	220	A.G Power Company Pvt	
68	Chhadevel MHP	Bajhang	RDSC	9	132	23rd Jan 2015	8.68	128	Lumbini Engineering and	
69	Dhauligad MHP	Bajhang	RDSC	45	390	27th Jan 2015	45.49	133	Hydro Energy concern	
70	Ghatte Gad PHP	Bajhang	RDSC	5	80	30th Jan 2015	5.93	110	Design Point Pvt. Ltd.	
71	Dahachal MHP	Bajura	RDSC	15	214	4th feb 2015	16.14	216	Lumbini Engineering and	
72	Bajhkharka Khola	Bajura	RDSC	4.5	110	14th feb 2015	6.01	116	Dhaulagiri Hydro Consult	
73	Barjugad MHP	Bajura	RDSC	40	502	18th Feb 2015	43.77	461	KP Byawosayik JV	
74	Selagad Chiltada	Achham	RDSC	17	155	20th Feb 2015	16.98	155	KP Byawosayik JV	
75	Lachhi gad MHP	Bajhang	RDSC	18	248	20th April 2015	16.73	316	Nepal Energy	
76	Dogade Gad MHP	Bajhang	RDSC	46	490	2nd April 2015	57.93	490	Universal Equipment	
77	Rilugad MHP	Bajhang	RDSC	22	266	23rd April 2015	22.43	266	Noth Engineering	
78	Jebregad MHP	Bajhang	RDSC	22	228	2nd May 2015	21.13	175	Universal Equipment	
79	RE-POV Sahupata	Bajhang	RDSC	9	108	8th May 2015	8.96	97	Siemens Hydro Eng. &	Re-POV
80	RE-POV Regamgad	Bajhang	RDSC	42	567	11th May 2015	39.96	502	Siemens Hydro Eng. &	Re-POV
81	Tamkot MHP	Achham	RDSC	14	146	24th May 2015	14.55	80	Technical Engineering	
82	Malagad MHP II	Bajura	RDSC	100	932	27th May 2015	97.87	897	KP Byawosayik Sewa Pvt	
83	RE-POV Raudagad	Bajura	RDSC	30.5	278	29th May 2015	30.86	278	KP Byawosayik Sewa Pvt	Re-POV

**C. List of project found deviated during the POHV test:**

SN	Projects Name	District	RSC	AS per DFS		MQA Unit			Company	Remarks
				kW	HH	Date of POV	Verified kW	Verified HH		
1	Sobuwa Khola	Taplejung	NCDC	22	215	28th March 2015	18.51	216	North Engineering	
2	Jaiwakhola PHP	Taplejung	NCDC	3	45	20th March 2015	0	0	Krishna Grill	
3	Siba Khola II	Panchthar	NCDC	53	407	30th March 2015	31.86	697	MPC	
4	Hile Khola PHP	Ilam	NCDC	4	51	28th March 2015	2.96	54	MPC	
5	Rakula Khola	Udaypur	SCDC	25	250	10th Mar 2015	9.61	250	Hulas Steel Industries Ltd.	
6	Donchhepo	Sindhuli	REWSSPC	15	180	15th March 2015	5.09	145	Uiversal Consultancy Services P	
7	Chokte Khola	Ramechhap	REMREC	3	69	23rd Jan 2015	0.044	69	Lumbini Enginnering&	
8	Thotne Khola	Okhaldhunga	REMREC	14	163	20th Jan 2015	7.95	163	D.L Energy Concern	
9	AdherikholaJarap	Okhaldhunga	REMREC	5	63	30th Jan 2015	1.37	63	Nepal Energy Development	
10	Sisne khola PHP	Okhaldhunga	REMREC	3	56	2nd Feb 2015	1.49	56	Manasalu Energy Pvt.Ltd.	
11	Thado Khola PHP	Dolakha	REMREC	2	25	8th April 2015	1.52	25	Himchuli Multipurpose	
12	Chitra Khola	Sindhupalchok	REMREC	5	45	13 April 2015	3.808	43	D.L. Energy Concern Pvt. Ltd.	
13	Lakuri Khola	Lalitpur	REMREC	3	33	17th April 2015	2.39	33	D.L. Energy Concern Pvt. Ltd.	
14	RE-POV Kol Khola	Gorkha	RESDTN	8	80	19th feb 2015	5.91	82	Multiservice	Re-POV
15	Muyalsuyong	Rasuwa	RESDTN	3.5	68	19th feb 2015	3.03	82	Manaslu Energy P. Ltd.	
16	SeleleSuryakunda	Nuwakot	RESDTN	5	59	21st Feb 2015	2.53	113	Nuwakot Prabidhi Tatha	
17	Lungetkhola	Gorkha	RESDTN	26	218	24th April 2015	19.14	221	Multi Service Link Pvt. Ltd.	
18	Karamkotkhola	Nawalparasi	RESDTN	14	150	24 April 2015	9.9	140	Rural & Alternative Energy Pvt.	
19	Bep Khola PHP	Myagdi	DCRDC	3	36	30th April 2015	2.48	37	D L Energy Concern Pvt. Ltd.	
20	Baseni Khola PHP	Palpa	DCRDC	1.2	25	10th April 2015	1.026	28	Gautam Energy Engineering,	
21	Kuje Gar	Rolpa	BASE	92	972	29th April 2015	0	995	Krishna Grill & Engineering Works	
22	Kasil Khola MHP	Dolpa	BASE	25	304	29th May 2015	0	304	Great Nepal	
23	RE-POV Dochal	Jumla	ASTHA	85	904	19th May 2015	60.11	904	NMASS	Re-POV
24	Sahupata MHP	Bajhang	RDSC	9	108	21 Jan 2015	3.65	97	Siemens Hydro Eng. & Eng.	
25	Regam Khola	Bajhang	RDSC	42	567	2nd Feb 2015	36.99	502	Siemens Hydro Eng. & Eng.	
26	Re-POV Gokulgad	Darchula	RDSC	47	555	6th Feb 2015	25.88	469	Oshin Power Service Pvt.Ltd.	Re-POV
27	Raudagad MHP	Bajura	RDSC	30.5	278	9th Feb 2015	0	278	KP Byawosayik JV Synergy	

SN	Projects Name	District	RSC	AS per DFS		MQA Unit			Company	Remarks
				kW	HH	Date of POV	Verified kW	Verified HH		
28	Malagad MHP	Bajura	RDSC	100	1163	17 feb 2015	87.56	1116	Hydro Energy concern Pvt.Ltd.	
29	Dwari gad MHP	Bajhang	RDSC	42	438	27th April 2015	0	383	Universal Equipment Industries	
30	Jeude gad No 2	Bajhang	RDSC	27	292	4th May 2015	0	257	Universal Equipment Industries	

**D. List of POHV carried out but reports yet be finalized project**

SN	Name of Projects	District	RSCs	AS Per DFS		Manufacturing/Installer Company	Remarks
				kW	HH		
1	Re-POV Sangta Risang khola	Jajarkot	ASTHA	98.13	1028	NMASS	
2	Biurabari MHP.	Jajarkot	ASTHA	15	162	NMASS	
3	Bada Khola MHP.	Jajarkot	ASTHA	6.7	75	Gautam Energy Engg.	
4	Re-POV Sirpa Khola MHP.	Jajarkot	ASTHA	31	310	Thapa Engg. Industries	
5	Lahare Khola MHP.	Jajarkot	ASTHA	24	307	North Engg. Company	
6	Chap Khola PHP	Khotang	SCDC	1.5	30	Nepal Power Solution Pvt. Ltd.	
7	Sapsu Khola MHP	Khotang	SCDC	11	105	CRCN	
8	Lumjhu Khola MHP	Khotang	SCDC	19	186	Radha structure &Engg. Works	
9	SimleKhola PHP	Khotang	SCDC	5	45	Nepal Power Solution Pvt. Ltd.	
10	Cherkhekhola MHP	Khotang	SCDC	50	483	Universal Consultancy Services	

## 7.10 Summary of Random Monitoring Results (Monitoring through DDCs)

**A. Solar home systems (total monitored nos: 206)**

Sn.	Description of finding/deviation	No. of systems	%
1	systems never installed	6	2.9%
2	households said to have the system not found in said location	6	2.9%
3	systems not working at all	4	1.9%

Sn.	Description of finding/deviation	No. of systems	%
4	systems without engrave number on panel and battery	46	22.3%
5	systems removed	1	0.5%
6	systems is damaged	6	2.9%
7	Systems working poorly	2	1%
8	systems do not exist (once installed but later sold/handed over to others)	3	1.5%

**B. Pico/micro hydro schemes (total monitored nos: 9)**

*[No deviation found]*

**C. Improved cook stoves (total monitored nos: 107)**

Sn.	Description of finding/deviation	No. of ICS	%
1	ICS never installed	9	8.4%
2	ICS found in damaged condition	5	4.7%
3	households said to have the ICS not found in said location	6	5.6%

**D. Household biogas plants (total monitored nos: 117)**

Sn.	Description of finding/deviation	No. of plants deviated	%
1	households said to have the biogas plant not found in said location	1	0.9%
2	Plant not working at all	6	5.1%
3	Plant not in use (owner migrated)	1	0.9%

## 7.11 RE Source:

### A. Updates of CDS projects that has been already awarded to CDS suppliers

S.No.	CDS Projects already contracted	Demanders	Suppliers	Status
Micro-Hydro (community Electrification sub-component)				
1	Developing and printing construction and installation manual for micro hydropower project installer	Nepal Micro-Hydro Development Association (NMHDA)	Universal Consultancy Services Pvt. Ltd.	Completed
2	Develop Operational Profile for Micro Hydropower Installer (Civil) level 2 and Micro Hydropower Installer (Electro-mechanical) level 2.	Nepal Micro-Hydro Development Association (NMHDA)	CTEVT,NSTB	Completed
3	Conducting Project Management Training of Micro Hydropower Projects to Chairpersons and Secretaries of User Committee	Nepal Micro-Hydro Development Association (NMHDA)	Universal Consultancy Services Pvt. Ltd.	Completed
Biogas (Biogas sub-component)				
4	Developing a Guideline to Prepare Marketing Plan for Biogas Companies and provide Training	NBPA-Pokhara Regional Office	Clean & Green Nepal and BSP-Nepal Joint Venture	Completed
Solar (Solar Energy Sub-component)				
5	Developing Training Manual for Solar PV Pumping System and Providing Training	EEO & PO of DDC	GRID, Nepal & CES Joint Venture	Completed
Biomass (Biomass Energy Sub-component)				
6	Training on Biomass Briquetting Business Development and Technologies and manual print	Belchauri Community Agriculture Co-operative Society Ltd.	Centre for Energy & Environment, Nepal	Completed
Energy Enterprenure (Productive Energy Use Sub-component)				

7	Building Capacity of District-level Project Review Committee (DPRC)	NCDC & DCRDC	Epsom Engineering Consultancy	Completed
8	Capacity building of LEDCs for effective and efficient implementation of productive energy use through business development, developing training tool kit, preparation of training manual & support in preparation of TOT	Productive Energy Use (PEU/NRREP)	Expert and Consultant Hired	Completed

**B. Other projects which are on process (RE-Source)**

S.No.	CDS Project	Status
1	Conducting Project Management cum Report Writing Training of Micro Hydropower Projects to Managers of Installation Companies	Parked
2	Enhancing capacity of repair and maintenance centres for solar PV systems at sub-national level	Parked
3	Promotion of ICS for forest conservation and sustainable livelihood through Agriculture Cooperative.	Parked
4	CTEVT/NSTB Skill Test For MHP Installer Level 3	Parked
5	Capacity Building of Micro hydro User's Group to promote ICS in 8 VDC's of Dhading districts	Parked
6	Management Training for Project Sustainability of Bajhang District	Parked
7	Strengthening Promoters' Association by Capacity Building (DOTI)	Parked
8	MICS Business Network Promotion	Parked
9	Pre-test Manual for Micro Hydro projects	Parked
10	Micro Hydro User Committee Co-operative	Parked
11	Scaled Improved Cooking Stoves	Parked
12	Abhiyan for Renewable Energy Programme	Parked
13	Accounting & VAT Mgmt Software Development	Parked

## 7.12 Overview of Output wise Budget and Expenditure:

Component	Sub-component	Output	Annual Budget, NPR	Annual Expenses, NPR	% Utilization
CREF	CREF	Output 1.1	31,144,000	4,715,941	15%
		Output 1.2	333,650,000	10,860,254	3%
		Output 1.3	3,663,150,000	2,072,757,393	57%
		<b>Sub-total</b>	<b>4,027,944,000</b>	<b>2,088,333,588</b>	<b>52%</b>
TECHNICAL SUPPORT	Biogas	Output 2.1	77,721,000	17,893,422	23%
		Output 2.2	22,279,000	6,332,249	28%
	Biomass	Output 2.3	323,590,000	228,502,065	71%
		Output 2.4	15,000,000	4,045,625	27%
	Climate and Carbon	Output 2.5	24,690,000	19,262,511	78%
	Solar	Output 2.6	61,400,000	25,903,760	42%
		Output 2.7	700,000	-	0%
		Output 2.8	43,800,000	29,159,654	67%
		Output 2.9	10,800,000	683,047	6%
	Community Electrification	Output 2.10	45,150,000	21,932,957	49%
		Output 2.11	34,380,000	11,803,799	34%
		Output 2.12	80,220,000	56,125,938	70%
		Output 2.13	6,000,000	5,331,531	89%
	Institutional Development, GESI and MQA	Output 2.14	91,780,000	43,219,748	47%
	outreach	Output 2.15	78,818,000	75,461,857	96%
		Output 2.16	39,367,000	8,901,041	23%
	<b>Sub-total</b>	<b>955,695,000.00</b>	<b>554,559,203.66</b>	<b>58%</b>	



Component	Sub-component	Output	Annual Budget, NPR	Annual Expenses, NPR	% Utilization
BUSINESS DEVELOPMENT & PEU	Business Development & PEU	Output 3.1	21,844,000	16,371,351	75%
		Output 3.2	22,490,000	16,184,417	72%
		Output 3.3	7,465,000	5,403,014	72%
		Technical Assistance	41,300,000	31,947,689	77%
		Output 2.17.	65,770,000	34,372,077	52%
		<b>Sub-total</b>	<b>158,869,000</b>	<b>104,278,548.4</b>	<b>66%</b>
NRREP MANAGEMENT			144,686,000	92,339,513	64%
STUDIES, AUDIT & REVIEW			7,800,000	7,612,112	98%
<b>Annual Total</b>			<b>5,294,994,000</b>	<b>2,847,122,966.03</b>	<b>54%</b>

## 7.13 Overview of Budget and Expenses:

### a) Component wise :

S N .	Component/Unit	Programme Budget ( July 12 - July 17)	%	Year 1 (2012/13)			Year 2 (2013/14)			Year 3 (2014/15)			Project to date (PTD)	
				Budget	Expenses	Utilization (%)	Budget	Expenses	Utilization (%)	Budget	Expenses	Utilization (%)	Expenses	Utilization (%)
1	CREF	9,923,394,000		1,884,120,000	431,306,039	23%	2,437,449,000	1,939,921,995	79.59%	4,027,945,680	2,088,333,588	52%	4,459,561,622	45%
	Danida	965,140,000	10%	405,820,000	94,571,740	23%	467,859,000	426,809,915	91.23%	794,319,000	387,113,167	49%	908,494,822	94%
	Norway	868,626,000	9%	405,820,000	94,571,740	23%	467,859,000	426,809,915	91.23%	789,248,000	538,759,884	68%	1,060,141,539	122%
	DFID	666,824,000	7%	268,000,000	63,665,968	24%	232,000,000	197,597,154	85.17%	336,358,000	-	0%	261,263,121	39%

S N .	Component/Unit	Programme Budget ( July 12 - July 17)	%	Year 1 (2012/13)			Year 2 (2013/14)			Year 3 (2014/15)			Project to date (PTD)		
				Budget	Expenses	Utiliza tion (%)	Budget	Expenses	Utiliza tion (%)	Budget	Expenses	Utiliza tion (%)	Expenses	Utiliza tion (%)	
	KFW	193,028,000	2%	24,000,000	-	0%	203,700,000	-	0.00%	332,068,000	-	0%	-	0%	
	SREP	1,754,800,000	18%				23,200,000	-	0.00%	-			-	0%	
	GIZ	-	0%	55,000,000	-	0%	42,700,000	-	0.00%	63,235,000		0%	-		
	UNCDF		0%	9,280,000	8,356,420	90%	34,362,000	3,774,742	10.99%	34,567,680	2,988,027	9%	15,119,189		
	GoN	5,474,976,000	55%	716,200,000	170,140,172	24%	965,769,000	884,930,269	91.63%	1,678,150,000	1,159,472,510	69%	2,214,542,951	40%	
2	<b>Technical Support</b>	<b>3,506,299,000</b>		<b>309,230,680</b>	<b>164,183,977</b>	<b>53%</b>	<b>567,498,000</b>	<b>426,950,229</b>	<b>75.23%</b>	<b>955,692,490</b>	<b>554,559,204</b>	<b>58%</b>	<b>1,145,693,409</b>	<b>33%</b>	
	Danida	1,447,710,000	41%	155,125,840	86,190,579	56%	258,489,000	194,346,439	75.19%	335,205,500	216,732,033	65%	497,269,051	34%	
	Norway	772,112,000	22%	140,104,840	77,993,397	56%	249,949,000	189,610,702	75.86%	367,084,000	218,718,303	60%	486,322,402	63%	
	WB		0%				10,440,000		0.00%	60,118,990	9,088,640	15%	9,088,640		
	KFW	87,740,000	2%	10,000,000	-	0%				65,000,000			-	0%	
	SNV (TA)	979,387,000	28%	4,000,000	-	0%	33,500,000	27,371,379	81.71%	104,984,000	79,691,659	76%	107,063,038	14%	
	GIZ (TA)						9,020,000	9,422,000	104.46%				9,422,000		
	UNICAP (TA)										10,000,000	11,439,696			11,439,696
	UNDP (TA)						6,100,000	6,199,710	101.63%	13,300,000	18,888,872	142%	25,088,582		
	GoN	219,350,000	6%										-		
3	<b>BDRE and Productive Energy Use</b>	<b>737,016,000</b>		<b>29,998,100</b>	<b>9,813,525</b>	<b>33%</b>	<b>65,000,000</b>	<b>47,685,352</b>	<b>73.36%</b>	<b>158,870,000</b>	<b>104,278,548</b>	<b>66%</b>	<b>161,777,425</b>	<b>22%</b>	

S N .	Component/Unit	Programme Budget ( July 12 - July 17)	%	Year 1 (2012/13)			Year 2 (2013/14)			Year 3 (2014/15)			Project to date (PTD)	
				Budget	Expenses	Utiliza tion (%)	Budget	Expenses	Utiliza tion (%)	Budget	Expenses	Utiliza tion (%)	Expenses	Utiliza tion (%)
	Danida	368,508,000	50 %	14,999,0 50	4,906,762	33%	32,500,0 00	23,842,676	73.36 %	74,653,000	48,637,577	65%	77,387,0 15	21%
	Norway	368,508,000	50 %	14,999,0 50	4,906,762	33%	32,500,0 00	23,842,676	73.36 %	74,653,000	49,559,374	66%	78,308,8 12	21%
	UNDP									9,564,000	6,081,598	64%		
<b>4</b>	<b>NRREP Management</b>	<b>447,474,000</b>		<b>108,926, 500</b>	<b>67,290,914</b>	<b>62%</b>	<b>154,197, 000</b>	<b>96,403,341</b>	<b>62.52 %</b>	<b>144,686,000</b>	<b>92,339,513</b>	<b>64%</b>	<b>256,033, 768</b>	<b>57%</b>
	Danida	149,158,000	33 %	40,116,2 50	19,942,719	50%	57,198,1 50	36,156,810	63.21 %	55,908,720	44,790,857	51%	84,348,9 18	57%
	Norway	87,740,000	20 %	40,116,2 50	19,942,719	50%	32,964,8 50	20,837,113	63.21 %	32,835,280	15,976,750	49%	56,756,5 82	65%
	UNCDF		0%	950,000	-	0%	3,042,00 0		0.00%	3,260,000	3,322,518	102%	3,322,51 8	
	GoN	210,576,000	47 %	27,744,0 00	27,405,475	99%	60,992,0 00	39,409,418	64.61 %	52,682,000	28,249,389	54%	95,064,2 82	45%
<b>5</b>	<b>Studies, Audits &amp; Reviews.</b>	<b>298,316,000</b>		-	-		<b>7,000,00 0</b>	<b>3,603,249</b>	<b>51.47 %</b>	<b>7,800,000</b>	<b>7,612,112</b>	<b>98%</b>	<b>11,215,3 61</b>	<b>4%</b>
	Danida	114,062,000	38 %				4,410,00 0	2,270,047	51.47 %	4,914,000	4,857,542.66	99%	7,127,58 9	6%
	Norway	70,192,000	24 %				2,590,00 0	1,333,202	51.47 %	2,886,000	2,754,569.72	95%	4,087,77 2	6%
	TA provider	114,062,000	38 %										-	
	<b>Total (1+2+3+4+5)</b>	<b>14,912,499,000</b>	-	<b>2,332,27 5,280</b>	<b>672,594,455</b>	<b>29%</b>	<b>3,231,14 4,000</b>	<b>2,514,564,166</b>	<b>78%</b>	<b>5,294,994,170</b>	<b>2,847,122,966</b>	<b>54%</b>	<b>6,034,28 1,586</b>	<b>40%</b>

**b) Donor wise summary:**

SN	Source of fund	Programme Budget ( Jul 2012 - July 2017)		Commitment as per AWP 14/15		Fund Released by Dev Partners / Other Income					Actual Expenses / Utilization				Fund balance as per income of 2014/5	Fund deficit / surplus with reference to plan of 2014/15
		%	Nrs	%	Nrs	Project to Date (2012-2017)	Fund Balance of previous year 13/14	2014/15	In relation with		Project to Date (2012-2017)	YTD (2014/15)	In relation with			
									Progr am Budget t	Annua l Budget t			Progra m Budget	Annual Budget		
		a	b	c	d	e	f	g=d/a	h=(e+f)/c	j=y1+y2	i	k=j/a	l=i/c	m= (e+f)-i		
1	DP	60%	8,947,499,400	67.3%	3,564,161,680	3,839,892,446.67	601,989,858.29	1,172,629,302.06	43%	50%	3,724,674,353.51	1,659,401,067.20	42%	53.77%	115,218,093.16	(1,789,542,519.65)
a1	DANIDA	20%	2,982,499,800	23.9%	1,265,000,000	1,944,078,347.28	420,778,713.37	634,261,946.61	65%	83%	1,591,168,864.13	702,131,177	53.35%	55.50%	352,909,483.15	(209,959,340.02)
a2	NORWAY	14%	2,087,749,860	23.9%	1,266,706,000	1,396,068,134.84	103,985,208.78	432,234,699.46	67%	42%	1,685,617,107.07	825,768,880	80.74%	65.19%	(289,548,972.23)	(730,486,091.76)
a3	KFW	2%	298,249,980	7.5%	397,068,000	-			0%	0%	-	-	0.00%	0.00%	-	(397,068,000.00)
a4	DFID	4%	596,499,960	6.4%	336,358,000	261,263,121.41			44%	0%	261,263,121.41	-	43.80%	0.00%	-	(336,358,000.00)
a5	WB	12%	1,789,499,880.00	1.1%	60,119,000	9,088,640.00		9,088,640.00	1%	15%	9,088,640.00	9,088,640.00	0.51%	15.12%	-	(51,030,360.00)
	ADB															
2	GIZ	4%	596,499,960	1.2%	63,235,000	9,422,000.00			2%	0%	9,422,000.00		1.58%	0.00%	-	(63,235,000.00)
a8	SNV *	1%	149,124,990	2.0%	104,984,000	149,249,145.12	63,213,135.50	58,664,630.62	100%	116%	107,063,038.00	79,691,659	71.79%	75.91%	42,186,107.12	16,893,766.12
a9	UNDP/ RERL	3%	447,374,970	0.4%	22,864,000.00	32,066,169.15	-	25,866,459.15	13%	113%	31,170,180.15	24970470.15	11.09%	109.21%	895,989.00	3,002,459.15
a10	UNCDF			0.7%	37,827,680.00	27,148,357.27	14,012,800.65	1,004,394.62		40%	18,441,706.75	6,310,545		16.68%	8,706,650.52	(22,810,484.73)
a11	UN-ESCAP			0.2%	10,000,000.00	11,508,531.60		11,508,531.60		115%	11,439,696.00	11,439,696		114.40%	68,835.60	1,508,531.60
															-	-
2	GoN	40%	5,964,999,600	32.7%	1,730,832,000	3,172,839,620.56	438,472,287	1,612,482,000.00	53%	118%	2,309,607,232.77	1,187,721,899	39%	68.62%	863,232,388	320,122,286.63

	<b>Total (1+2)</b>	####	14,912,499,000	100%	5,294,993,680	7,012,732,067	1,040,462,145	2,785,111,302.06	47.03 %	72%	6,034,281,586	2,847,122,966	40.46%	53.77%	978,450,481	(1,469,420,233)
a11	Other income**					102,188,894		23,107,376							102,188,894.15	
	<b>Total (1+2+3)</b>	####	14,912,499,000	100%	5,294,993,680	7,114,920,961	1,040,462,145	2,808,218,678.42	47.03 %	72%	6,034,281,586	2,847,122,966	40.46%	53.77%	1,080,639,375.10	(1,469,420,233.02)

\*Opening balance is considered while computing % of fund released in AWP

\*\* Other income includes interest, Exchange gain/loss and penalty income (CREF)

\*\*\* CREF/HB (GIBL) expenses to be rectified as possible of double booking of expenses

## 7.15 Income Statement and Balance Sheet:

### A. Income Statement for the programme period till 16 July 2015

Particulars		Amount'NPR'
<b>A</b>	<b>Income</b>	
<b>30001</b>	<b>FUND RECEIVED</b>	
<b>31000</b>	<b>FC TREASURY</b>	
31001	Danida	1,944,078,347
31002	Norway	1,396,068,135
31003	DFID	261,263,121
31004	KFW	
31005	UNDP	32,066,169
31006	WORLD BANK	9,088,640
	GIZ	9,422,000
	SNV	149,249,145
	UNCDF	27,148,357
	UNICAP	11,508,532
	Climate Change (CC) Program fund	53,435,000
	ESAP-REF fund	5,560,752,289
<b>31999</b>	<b>TOTAL FC TREASURY</b>	<b>9,454,079,736</b>
<b>32000</b>	<b>NON CASH FUND</b>	
32001	Ear Marked Fund	
32002	Direct Payment Fund	
<b>32999</b>	<b>TOTAL NON CASH FUND</b>	
<b>33000</b>	<b>FUND FROM GON</b>	
33001	Technical Pool fund	94,840,621
33002	Matching fund	3,077,999,000
<b>33999</b>	<b>TOTAL FUND FROM GON</b>	<b>3,172,839,621</b>
<b>34100</b>	<b>OTHER INCOME</b>	

Particulars		Amount'NPR'
34101	Exchange gain & loss	54,318,978
34102	Bank Interest	47,458,848
	Bank Interest (CC Prog.)	419,326
	Bank Interest(ESAP-REF)	76,369,746
	Penalties	295,600
	Penalties(ESAP-REF)	90,380,490
34103	Other Income	115,468
	Other Income(ESAP-REF)	92,250
<b>34199</b>	<b>TOTAL OTHER INCOME</b>	<b>269,450,707</b>
	<b>Total Income-A</b>	<b>12,896,370,063</b>
<b>B</b>	<b>Expenditure</b>	
<b>41000</b>	<b>CREF</b>	
41010	Technical Support	37,253,762
41020	Subsidy	4,422,307,860
41030	Credit	
<b>41999</b>	<b>TOTAL CREF</b>	<b>4,459,561,622</b>
<b>42000</b>	<b>TECHNICAL SUPPORT</b>	
42010	Biogas	70,489,529
42020	Biomass	436,278,932
42030	Climate and Carbon	37,980,740
42040	Solar Energy	133,448,166
42050	Community Electrification	228,474,661
<b>42060</b>	<b>INSTITUTIONAL DEVELOPMENT</b>	
42061	Institutional Support	43,937,226
42062	Monitoring	37,130,925
42063	GESI	17,448,233
42064	Outreach	140,504,998
<b>42069</b>	<b>TOTAL INSTITUTIONAL DEVELOPMEN</b>	<b>239,021,381</b>
<b>42999</b>	<b>TOTAL TECHNICAL SUPPORT</b>	<b>1,145,693,409</b>
<b>43000</b>	<b>Business Dev. RE &amp; PEU</b>	<b>161,777,425</b>
<b>44000</b>	<b>NRREP MANAGEMENT</b>	

Particulars		Amount'NPR'
<b>44010</b>	<b>CAPITAL COST</b>	
44011	Field Equipment	179,700
44012	Office Equipment	5,505,463
44013	Furniture and Furnisher	3,210,460
44014	Vehicle	
<b>44019</b>	<b>TOTAL CAPITAL COST</b>	<b>8,895,623</b>
<b>44020</b>	<b>RECURRENT COST</b>	
44021	Staff Related Expenses	189,807,802
44022	Administrative Expenses	447,860
44023	Operation Expenses	56,882,483
<b>44029</b>	<b>TOTAL RECURRENT COST</b>	<b>247,138,145</b>
<b>44030</b>	<b>STUDIES, REVIEW AND AUDIT</b>	
44031	Studies, Review and Audit	11,215,361
<b>44039</b>	<b>TOTAL STUDIES, REVIE AND AUDIT</b>	<b>11,215,361</b>
<b>44999</b>	<b>TOTAL NRREP MANAGEMENT</b>	<b>256,033,768</b>
	<b>Total Expenditure-CC Program</b>	<b>53,797,320</b>
	<b>Total Expenditure-ESAP(REF)</b>	<b>5,236,688,774</b>
	<b>Total Expenditure-B</b>	<b>11,324,767,680</b>
	<b>Excess of income over expenditure(A-B)</b>	<b>1,571,602,383</b>

#### B. Balance Sheet as at 16 July 2015

Particulars		Amount'NPR'
<b>Assets</b>		
<b>10001</b>	<b>CURRENT ACCOUNT</b>	
<b>11000</b>	<b>BANK AND CASH</b>	
11001	Nabil Bank	40,196,104
11002	AEPC/NRREP(CREF)Himalayan Bank	23,260,069



Particulars		Amount'NPR'
	EBL-CREF A/C 6376364	259,939
11003	Everest Bank-Current	97,652,286
11004	Nepal Rastra Bank	5,238,931
11005	Nepal Investment Bank	11,505,641
	GIBL(Global IME)	878,083,160
11998	Cash	25,000
	Bank(CC Program)	57,006
	Bank(ESAP,REF-HBL)	6,447,533
<b>11999</b>	<b>TOTAL BANK AND CASH</b>	<b>1,062,725,669</b>
	<b>Fund Balance</b>	
	UNCDF	8,706,651
	AEPC-Resource(SNV)	42,186,107
	UNICAP	68,836
	<b>TOTAL FUND BALANCE</b>	<b>50,961,593</b>
<b>12100</b>	<b>ADVANCES/RECEIVABLES</b>	
12101	Program Service Contract	151,849
12102	General Service Contract	5,649,060
12103	Job/Supplies Advance	
12104	Staff Advance	49,200
12105	Suspense	24,614,411
12106	VAT Receivable	18,138,242
	Advance against bank guarantee(CREF)	295,431,806
	Advance against bank guarantee(GIBL)	254,598,443
	Balance at Partner Banks(CREF fund)	204,749,986
	Total Advance Accounts(ESAP-REF)	778,253,851
<b>12199</b>	<b>TOTAL ADVANCES/RECEIVABLES</b>	<b>1,581,636,847</b>
	<b>Total Assets</b>	<b>2,695,324,109</b>

Particulars		Amount'NPR'
<b>Liabilities</b>		
	Excess of income over expenditure	1,596,852,397
<b>12500</b>	<b>PAYABLES</b>	
12510	Supplier	
12521	TDS Payable - Remuneration	
12522	TDS Payable - Individual	
12523	TDS Payable - Pvt. Ltd.	
12530	Retention	2,100,443
	Retention(ESAP-REF)	138,450
12540	Commitment	31,108,541
12550	Deposit	181,000
	Withheld deposits(ESAP-REF)	293,656,933
	Payable of CREF	487,418,903
	Payable of CREF(GIBL)	309,117,458
<b>12599</b>	<b>TOTAL PAYABLES</b>	<b>1,123,721,727</b>
<b>Total Liabilities</b>		<b>2,695,324,109</b>

**Notes:**

1. *In addition, there is income from Carbon revenue amounting NPR 346,101,000. This amount has not been reflected in this statement as there is separate carbon account created by GoN.*
2. *The actual balance of fund may vary as amount reimbursed from WWF amounting NPR 25,250,014 (for domestic biogas plants) is in CREF account. As WWF is not a part of NRREP, the concerned financial figures are not included in the report.*

## 7.16 Donor Component-wise Expenditure (FY 2014/15):

(Figures in '000 NPR)

S N	Particular/Component/Unit	GoN			Danida			Norway			KFW		
		AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses
1	Central Renewable Energy fund Component	1,678,150		1,159,473	794,319	26%	387,113	789,248	26%	538,760	332,068	-	0
1.1	Technical Support				15,867	50%	8,175	15,867	50%	4,413	5258		
1.2	Subsidy	1,678,150	56%	1,159,473	548,452	18%	378,938	773,381	26%	534,347	326,810		
1.3	Credit				230,000								
2	Technical Support Component	-			335,206	48%	216,732	367,084	52%	218,718	65,000		
2.1	Bio-gas sub-component				16,661	50%	11,391	16,661	50%	10,542	45,000		
2.2	Biomass Energy subcomponent				123,549	50%	87,968	123,550	50%	84,735			
2.3	Climate and Carbon				14,814	60%	10,113	9,876	40%	9,150			
2.4	Solar Energy sub-component				43,350	50%	21,523	43,350	50%	22,784	20,000		
2.5	Community Electrification Sub-component				60,980	40%	37,115	91,470	60%	43,470			
2.6	Institutional Development Sub-component				75,852	48%	48,623	82,178	52%	48,038	-		
	2.5.1 Institutional Support				17,700	50%	1,615	17,700	50%	2,208			
	2.5.2 Monitoring				27,300	60%	20,778	18,200	40%	6,195			
	2.5.3 Gender and Soccial Inclusion				4,352	40%	2,920	6,528	60%	5,225			
	2.5.4 Outreach				26,500	40%	23,310	39,750	60%	34,411			
3	Business Dev. for RE and productive				74,653	50%	48,638	74,653	50%	49,559			
4	NRREP managemement	52,682	41%	28,249	55,909	44%	44,791	32,835	26%	15,977	-	-	0
4.1	Capital Cost		9,400		5,922	63%	1,107	3,478	37%	294			
	4.1.1 Field Equipment		63%		189	63%		111	37%				
	4.1.2 Office Equipment				945	63%	741	555	37%	217			
	4.1.3 Furniture and Furnisher				378	63%	366	222	37%	77			
	4.1.4 Vehicles				4,410	63%		2,590	37%				
4.2	Recurrent Cost	52,682	45%	28,249	49,987	42%	43,684	29,357	25%	15,683			
	4.2.1 Staff related expenses	38,347	0.38025	24,727	39,374	39%	34,266	23,125	23%	11,000			
	4.2.2 Administrative Expenses	-			217	63%	52	128	37%	34			
	4.2.3 Operation Expenses	14,335		3,522	10,395	63%	9,366	6,105	37%	4,649			
4.3	Studies , reviews and Audit				4,914	63%	4,858	2,886	37%	2,755			
<b>Grand Total</b>		<b>1,730,832</b>	<b>32.69%</b>	<b>1,187,722</b>	<b>1,265,000</b>	<b>23.89%</b>	<b>702,131</b>	<b>1,266,706</b>	<b>23.92%</b>	<b>825,769</b>	<b>397,068</b>	<b>7.50%</b>	<b>0</b>
<b>Percent of Donor's commitment in AWP</b>		<b>32.69%</b>			<b>23.89%</b>			<b>23.92%</b>			<b>7.50%</b>		

(Figures in '000 NPR)

S N	Particular/Component/Unit	DFID			WB			ADB			GIZ		
		AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses
1	Central Renewable Energy fund Component	336,358	-	0	-	-	0	-	-	0	63,235	-	
	1.1 Technical Support	0									63,235		
	1.2 Subsidy	336,358				0%				0	0		
	1.3 Credit												
2	Technical Support Component				60,119	-	9,089	-			-	-	0
	2.1 Bio-gas sub-component				21,679		2,293						
	2.2 Biomass Energy subcomponent				38,440		6,796						
	2.3 Climate and Carbon												
	2.4 Solar Energy sub-component												
	2.5 Community Electrification Sub-component												
	2.6 Institutional Development Sub-component				-	-	0	-			-	-	0
	2.5.1 Institutional Support												
	2.5.2 Monitoring												
	2.5.3 Gender and Social Inclusion												
	2.5.4 Outreach											0%	
3	Business Dev. for RE and productive												
4	NRREP management	-	-	0	-	-	0	-	-	0	-	-	0
	4.1 Capital Cost												
	4.1.1 Field Equipment												
	4.1.2 Office Equipment												
	4.1.3 Furniture and Furnisher												
	4.1.4 Vehicles												
	4.2 Recurrent Cost												
	4.2.1 Staff related expenses												
	4.2.2 Administrative Expenses												
	4.2.3 Operation Expenses												
	4.3 Studies , reviews and Audit												
	<b>Grand Total</b>	<b>336,358</b>	<b>6.35%</b>	<b>0</b>	<b>60,119</b>	<b>1.14%</b>	<b>9,089</b>	<b>-</b>	<b>0.00%</b>	<b>0</b>	<b>63,235</b>	<b>1.19%</b>	<b>0</b>
	<b>Percent of Donor's commitment in AWP</b>		<b>6.35%</b>			<b>1.14%</b>			<b>0.00%</b>			<b>1.19%</b>	

(Figures in '000 NPR)

S N	Particular/Component/Unit	SNV			UNDP			UNDP/UNCDF			UNISCAP		
		AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses	AWP	%	Expenses
1	Central Renewable Energy fund Component	-	-	0	-	-	0	34,568	-	2,988	-	-	0
	1.1 Technical Support							34,568		2,988			
	1.2 Subsidy							0			0		
	1.3 Credit												
2	Technical Support Component	104,984		79,692	13,300	-	18,889	-	-		10,000	-	11,440
	2.1 Bio-gas sub-component												
	2.2 Biomass Energy subcomponent	53,050		53,050									
	2.3 Climate and Carbon												
	2.4 Solar Energy sub-component										10,000		11,440
	2.5 Community Electrification Sub-component				13300		14,609						
	2.6 Institutional Development Sub-component	51,934		26,642	-	-	4,280	-	-		-	-	
	2.5.1 Institutional Support		0%				4,280						
	2.5.2 Monitoring												
	2.5.3 Gender and Soccial Inclusion												
	2.5.4 Outreach	51,934		26,642									
3	Business Dev. for RE and productive				9,564	25.28	6,082		-			-	
4	NRREP managemement	-	-	0	-	-	0	3,260	-	3,323	-	-	0
	4.1 Capital Cost							-		0			
	4.1.1 Field Equipment												
	4.1.2 Office Equipment												
	4.1.3 Furniture and Furnisher												
	4.1.4 Vehicles												
	4.2 Recurrent Cost							3,260		3,323	-		
	4.2.1 Staff related expenses							3,260		3,323			
	4.2.2 Administrative Expenses												
	4.2.3 Operation Expenses												
	4.3 Studies , reviews and Audit												
	<b>Grand Total</b>	<b>104,984</b>	<b>1.98%</b>	<b>79,692</b>	<b>22,864</b>	<b>0.43%</b>	<b>24,970</b>	<b>37,828</b>	<b>0.71%</b>	<b>6,311</b>	<b>10,000</b>	<b>0.19%</b>	<b>11,440</b>
	<b>Percent of Donor's commitment in AWP</b>		<b>1.98%</b>			<b>0.43%</b>			<b>0.71%</b>			<b>0.19%</b>	

(Figures in '000 NPR)

S N	Particular/Component/Unit		TOTAL	
			AWP-Budget(014-15)	Total Exp.(014-15)
1	Central Renewable Energy fund Component		4,027,946	2,088,334
	1.1	Technical Support	134,795	15,576
	1.2	Subsidy	3,663,151	2,072,757
	1.3	Credit	230,000	
2	Techical Support Component		955,692	554,559
	2.1	Bio-gas sub-component	100,000	24,226
	2.2	Biomass Energy subcomponent	338,588	232,548
	2.3	Climate and Carbon	24,690	19,263
	2.4	Solar Energy sub-component	116,700	55,746
	2.5	Community Electrification Sub-component	165,750	95,194
	2.6	Institutional Development Sub-component	209,964	127,583
	2.5.1	<i>Institutional Support</i>	35,400	8,102
	2.5.2	<i>Monitoring</i>	45,500	26,973
	2.5.3	<i>Gender and Soccial Inclusion</i>	10,880	8,145
	2.5.4	<i>Outreach</i>	118,184	84,363
3	Business Dev. for RE and productive		158,870	104,279
4	NRREP managemement		144,686	92,340
	4.1	Capital Cost	9,400	1,400
	4.1.1	<i>Field Equipment</i>	300	0
	4.1.2	<i>Office Equipment</i>	1,500	957
	4.1.3	<i>Furniture and Furnisher</i>	600	443
	4.1.4	<i>Vehicles</i>	7,000	
	4.2	Recurrent Cost	135,286	90,939
	4.2.1	<i>Staff related expenses</i>	104,106	73,317
	4.2.2	<i>Administrative Expenses</i>	345	85
	4.2.3	<i>Operation Expenses</i>	30,835	17,538
	4.3	Studies , reviews and Audit	7,800	7,612
<b>Grand Total</b>			<b>5,294,994</b>	<b>2,847,123</b>
<b>Percent of Donor's commitment in AWP</b>			<b>99.81%</b>	

## 7.17 TA contribution in the reporting year:

### GIZ NEEP II

- Planning workshop completed for action plan preparation for Clean Cooking Solution under NEEP II/GIZ for Testing and standard development
- Deployment of Development Advisor of RETS/ NAST via AEPC
- Major equipments need assessment made for RETS
- Co-supported for the participation on Safe access to Fuel and Energy (SAFE) Humanitarian workshop on addressing emergency natural disaster settlement inclusive of energy solution at Kampala, Uganda

### DISC

- Preparation and award of assignment of “Developing Investment Prospectus for Providing Universal Access to Clean Cooking Services in Nepal” and “Produced Development and Labeling of Clean Cookstoves and Standardized Biomass Fuels for Nepali Market” completed and “Business Model Development for Scaling Up Deployment of Clean Cookstoves and Standardized Biomass Fuels” is in final stage
- Supported for South-South knowledge exchange visit of AEPC staff and Nepali private sector entrepreneurs to China, Supported for AEPC staff to attend technical workshop on Cookstove standards in Guatemala, Support for AEPC staff to attend Asia Pacific Regional Workshop on Biomass Energy Resource Assessment and Biomass Open Research Forum in Thailand

### SNV/ICF

- Following are the main activities conducted by ICF Program implemented by SNV
  - Training of Trainers (ToT) to 36 number of LPO and LCB staff
  - Training to 325 number of Promoters and Stove makers including follow up
  - Refresher training for six monitoring personnel for ICS
  - Two Field tests were conducted (CCT and WBT) by CRTN and RETS
  - Carried out stratified sampling and field testing of 110 samples of ICS
  - ICF registered as a CDM PoA and MS-Gold Standard
  - Three numbers of test reports prepared for additional models developed under new ICS assignment.
  - Direct support for the installation of ICS to 24,041 households
  - Development of IEC materials

## 7.18 Procurement Activities carried out in FY 2014/15:

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
1	Third Part Monitoring of Biogas Plants Constructed in the F.Y. 2069/70 and 2070/71 B.S. (NRREP/AEPC)	Biogas	Service	QCBS		12,00	Process Cancelled-Excess Quoted Amount and Service Not Necessary
2	Supply, Delivery and Commissioning of Monitoring Equipment of Biogas (AEPC/NRREP/BG/NCB-01-2071/72)	Biogas	Goods	NCB		850	Process Cancelled-Technically not accepted-Going to re notice
3	Selection of Consultant for DFS Vyas Municipality	Biogas	Service	LCS	Minergy Pvt. Ltd.	290	Task Completed
4	Selection of Consultant for DFS Swargadari Municipality	Biogas	Service	LCS	Nepal Energy Development Co.	290	Task Completed
5	Designing and Preparation of Manuals of Biogas Appliances and Conduction of Training to Manufacturers	Biogas	Service	QCBS	Muntiscope Consultancy P. Ltd.	1200	Task is on going
6	Third party monitoring of WWF supported biogas Plant for 2013	Biogas	Service	QCBS	SETM, Muitscope Consultancy and Pioneer consultancy	2125	Task almost Completed
7	National Waste to Energy (Biogas) Potential Mapping for Commercial Entities, Public Institutions and Municipalities	Biogas	Service	QCBS	-	-	Processed cancelled-12 May 2015
8	Selection of Event Manager-Lunching	Biogas	Service	LCS	Varieties Consulting Network Pvt. Ltd., Kathmandu	151	Task Completed
9	Supply and Delivery of Biogas Analyzer	Biogas	Goods	SQ	Laboratory Trade Concern (P) Ltd.	650	Goods Delivered
10	Conducting "Mason and Supervisor (Biogas Technician Level-1 and Level - 2) Training"	Biogas	Service	QCBS	-	-	Processed Cancelled
11	Design, Construction Supervision	Biogas	Service	FBS	Danphe Energy Pvt. Ltd.	450	Task is on going



SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	and Preparation of Construction Manual of Toilet Waste Thickening Unit						
12	Training on Business Plan Preparation & Analysis for Large Commercial & Municipal Solid Waste Biogas Plants	Biogas	Service	QCBS	Tangent Wave Pvt. Ltd	400	Going to Award
13	Procurement of Laptop	Biogas	Goods	DS	-	-	Processed Cancelled-One Quotation Submitted
14	Procurement of Laptop	Biogas	Goods	SQ	Bids are evaluating	-	Deadline 21 June 2015
15	Printing of Improved Cooking Stove (ICS) User's Manual (AEPC/NRREP/BESC/SQ-01-2071/72)	Biomass	Goods	QQ	Rashmi Press	850	Printing and Delivery Completed
16	Supply and Delivery of Quality Testing and Output Verification Equipment for Gasifier Systems (AEPC/NRREP/BESC/NCB-01-2071/72)	Biomass	Goods	NCB	Associated Enterprises	34,35	Goods Delivery Completed
17	Hiring Consultant (Firm) for "Conduction of Training on Biomass Densification with focus on community enterprise and market development"	Biomass	Service	QCBS	Centre for Energy and Environment Nepal	799	Task Completed
18	Printing of Improved Cooking Stove (ICS) User's Manual (AEPC/NRREP/BESC/SQ-01-2071/72)	Biomass	Goods	DS	SB Printing Solution	289	Printing and Delivery Completed
19	Production of Informative Video Documentary on Improved Cooking Stoves (ICS)	Biomass	Service	QCBS	-		Processed Cancelled
20	Production of Informative Video	Biomass	Service	QCBS	Media Bank P Ltd.	805	Inception Report Submitted

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	Documentary on Improved Cooking Stoves (ICS)						
21	Design of Informative Education and Communication (IEC) Materials	Biomass	Service	FBS	Krishna Consultancy P. Ltd.	498	Inception Report Submitted
22	Preparation of Strategic Plans for Declaration of Indoor Air Pollution (IAP) Free Districts	Biomass	Service	QCBS	-		Processed Cancelled
23	Preparation of Strategic Plans for Declaration of Indoor Air Pollution (IAP) Free Districts	Biomass	Service	QCBS	-	-	EoI Evaluated and Shortlisted
24	Random Sample Monitoring of Mud Improved Cooking Stoves (ICS)	Biomass	Service	QCBS	CRE	713	Task Completed
25	Capacity Building Agency	Biomass	Service	QCBS	-	-	EoI Evaluated and Shortlisted
26	Conduction of Detailed Feasibility Study of Potential Sites for Biomass Gasifier Electrification in Rural Communities of Sunsari and Chitwan Districts”	Biomass	Service	QCBS	Ananta Gasifire Energy Pvt. Ltd.	493	Incepted report submitted
27	Conduction of Feasibility study and potential site identification for electricity generation through Chir Pine Needles based Gasifier system in Mid Western Region of Nepal.	Biomass	Service	QCBS	Ananta Gasifire Energy Pvt. Ltd.	787	Incepted report submitted
28	Printing, Supply and Delivery of Improved Cooking Stove (ICS) User’s Manual	Biomass	Goods	SQ	Fine Media Pvt. Ltd.	989	Task Completed
29	Printing, Supply and Delivery of MICS Subsidy Application Forms	Biomass	Goods	DS	S.B. Printers and Publication P. Ltd.	76	Task Completed
30	Supply and Delivery of Portable Improved Cooking Stove (ICS) for Earthquake Victims	Biomass	Goods	NCB	-	-	Process Cancelled
31	Selection of Consulting Firm for Biogas User’s Survey 2014/15	CCU	Service	QCBS	Square One Research and Training	2436	Task Completed

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
32	Etching (Printing in Anti Rust Mild Stainless Steel)	CCU	Goods	DS	SB Printing Solution	162	Goods Delivery Completed
33	Inclusion of CPA#6 and CPA#7 in registered Nepal Biogas Support Program-PoA”	CCU	Service	QCBS	KBS Certification, India	832	Task Completed
34	Baseline and Feasibility Assessment of the Waste to Energy Projects for Potential Financing under Market/Non-Market Mechanisms	CCU	Service	QCBS	Multiscope Consultancy P. Ltd	911	Incepted report submitted
35	Baseline and Feasibility Assessment of the Solar Based Technologies for Potential Financing under Market/Non-Market Mechanisms	CCU	Service	QCBS	-		Technical Proposal Evaluation is on going
36	Carrying out the activity of Preparation of the District Climate and Energy Plans (DCEPs) in selected districts: Gorkha, Palpa, Rupandehi, Kapilbastu, Syangja, Arghakhanchi, Baglung, Parbat, Kaski and Manang.	CCU	Service	QCBS	-	-	Technical Proposal Evaluation is on going
37	Printing, Supply and Delivery of Micro Hydro Log Book for Energy Meter Data Recording	CCU	Goods	DS	S.B. Printers & Publication P. Ltd.	187	Task Almost Completed
38	Pre-qualification of Manufacturing Companies for Fabrication of Micro-Hydropower Equipments	CESC	Goods	PQ		-	10 Oct. 2014, Under Evaluation Process
39	Hiring Consultancy Firm to Conduct Two Batches of Survey-Design Training of Micro-Hydropower Projects	CESC	Service	QCBS		-	26 Oct. 2014, Only One Proposal Submitted-Re Notice Call
40	Hiring Consultancy firm to carry out pre-qualification of Consulting Companies for Carrying out Survey and Design of Micro-Hydropower	CESC	Service	QCBS		-	26 Oct. 2014, No Proposal Submitted-Re Notice Call

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	Projects						
41	Hiring Consultancy firm to carry out pre-qualification of Installation Companies for Supply, Installation and After Sales Service of Micro-Hydropower Projects	CESC	Service	QCBS		-	26 Oct. 2014, No Proposal Submitted-Re Notice Call
42	Hiring Consultancy Firm to Conduct Two Batches of Survey-Design Training of Micro-Hydropower Projects	CESC	Service	QCBS	WECAN	996	Task Completed
43	Hiring Consultancy firm to carry out pre-qualification of Consulting Companies for Carrying out Survey and Design of Micro-Hydropower Projects	CESC	Service	QCBS	Go Green Consultancy	750	Inception Report Submitted
44	Hiring Consultancy firm to carry out pre-qualification of Installation Companies for Supply, Installation and After Sales Service of Micro-Hydropower Projects	CESC	Service	QCBS	EPS Consultancy	750	Inception Report Submitted
45	Preparation of Tender Documents and Assist to RSC and Community for Mini/Micro Hydro Power Projects	CESC	-	NCB	-	-	-
46	Preparing site assessment report cum intervention cost of Thingan Tri-Hybrid up gradation project Under Support to Thingan Tri-Hybrid project in Makwanpur”	CESC	Service	QCBS	Wind Energy Nepal Pvt. Ltd, Lalitpur, Nepal	400	Task Completed
47	Printing MMHP/IWM related documents	CESC	Goods	DS	Graphic International	63	Task Completed
48	Providing Legal Advice on Procurement document prepared by CESC and preparation of Procurement manual checklist	CESC	Service	DN	Procurement Management Association of Nepal	100	Task Completed

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
49	Preparation of Guideline for Project Manager	CESC	Service	DN	Satish Niraula	100	Task Completed
50	Preparation of Guideline for Quality Assurance of Electro Mechanical Equipment	CESC	Service	DN	Raju Raj Bajrachary	100	Task Completed
51	Enlistment in AEPC/NRREP Roster	CESC	Service	Selection	Various	-	Contract Awarded to 15 Persons
52	and Appraisal of DFS Report of Micro Hydro Projects	CESC	Service	DN	Angel Engineering Consultancy Pvt. Ltd.	252	Contract Awarded
53	Monitoring of Micro Hydro Projects damaged by recent Earthquake	CESC	Service	DN	Minenergy Pvt. Ltd., Universal Consultancy Pvt. Ltd., Motherland Energy Group Pvt. Ltd. and Baraha Institute of Engineering & technology Pvt. Ltd	1000	Task Completed
54	Conducting 1 Batch "Micro Hydro Installer Training" in Kathmandu Valley	CESC	Service	QCBS	-	1000	Financial Proposal evaluating
55	Conducting 1 Batch "Micro Hydro Installer Training" in Butwal, Rupandahi	CESC	Service	QCBS	-	-	Processed Cancelled
56	Conducting "Pico Hydro Operation and Management Training" in Kathmandu Valley	CESC	Service	QCBS	Universal Consultancy Pvt. Ltd.	596	Task Completed
57	Conducting 4 Batch "Micro Hydro Operation Trainings" in Kathmandu Valley	CESC	Service	QCBS	-	-	Proposal evaluating-Not Awarded This Year
58	Conducting 4 Batch "Micro Hydro Operation Trainings" in Butwal, Rupandahi	CESC	Service	QCBS	-	-	Proposal evaluating-Not Awarded This Year

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
59	Selection of Auditor for RSC Audit and Review of 2013/14 and 2014/15	Compliance	Service	QCBS	Suvod Associates	1800	Partial Task Completed
60	Selection of Auditor for Special Assignment of Solar System	Compliance	Service	QCBS	LDSA	260	Task Completed
61	Selection of Auditor for Auditing, Monitoring and Verification activities under AEPC/NRREP-Lump Sum and Time Based	Compliance	Service	QCBS	LDSA	1356+ 1.695	Task is on Going
62	Preparation and Standing List of Audit Firms	Compliance	Service	-	-		Standing List Prepared
63	Selection of Auditor for Special Assignment of Solar System	Compliance	Service	QCBS	CSC & Co.	1202	Task Completed
64	Hiring consultant (Firm) for providing legal advice for Compliance Unit	Compliance	Service	DN	-	-	Process cancelled-No Proposal submitted
65	Hiring consultant (Firm) for providing legal advice for Compliance Unit	Compliance	Service	QCBS	-	-	Eol is evaluating
66	Selection of Auditor for RSC Audit and Review of 2013/14 and 2014/15	Compliance	Service	QCBS		1800	Selection process of Second Responsive proponent
67	Selection of Handling Bank	CREF	Service	QCBS	Global IME Bank Ltd	1,00,00	Bank Selected
68	Selection of Partner Bank	CREF	Service	BCBS	8, Banks	Various % of Interest	Banks Selected
69	Selection of Consulting Firm for Transition and Project Facilitator (Company)	CREF	Service	QCBS	-	-	Deadline 14 Nov. 2014, 2 Proposals are submitted , Both Disqualified-Re-Call
70	Selection of Legal Advisor-Firm	CREF	Service	LCS	-	-	2 Proposals are submitted – Both Disqualified-Re-Call

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
71	Selection of Auditor for DDA of Banks	CREF	Service	QCBS	LDSA	42,00	Task Completed by LDSA Associated
72	Selection of Consulting Firm for Transition and Project Facilitator (Company)	CREF	Service	QCBS	TP Adhikari & Associates	800	Task Completed
73	Selection of Legal Advisor-Firm	CREF	Service	LCS	Premier Law Associates	280	Task Completed
74	Event Manager	CREF	Service	LCS	Varieties Consulting	280	Agreement Was Made-No Task is completed
75	Procurement of Photocopy Machine and Projector	CREF	Goods	DN	IEC & Munsar Global Link	260	Evaluation was completed
76	Conducting training on microfinance of selected Central renewable energy fund's handling and partner banks	CREF	Service	QCBS	-	-	EoI Evaluation completed
77	Selection of Consultant (Firm) for Preparation of Nepal's 20 Year's Renewable Energy Perspective Plan	IDSC	Service	QCBS	-	-	Technical Proposal Evaluating
78	Formulation of Information Technology (IT) Policy and Guideline of AEPC\NRREP	IDSC	Service	QCBS	Dryice Solutions Pvt. Ltd	566	Task Started
79	Hiring Consultant (Individual) for "Compliance Issue Handling"	IDSC	Service	DN	Mr.Abash Pandit	100	Task Completed
80	Developing AEPC/NRREP Annual Planning Tool	IDSC	Service	FBS	Elite Technology	285	Task Completed
81	Study on Strengthening Public Accountability of AEPC Activities (Including GESI)"	IDSC	Service	QCBS	MGS Associates	852	Task Started
82	Network/System Architect Redesign of AEPC\NRREP	IDSC	Service	QCBS	Technical Proposals are evaluating	-	Deadline 15 June 2015-Not Awarded This Year
83	Design and develop a Management Information System (MIS) for Compliance Unit in Microsoft	IDSC	Service	DN	Agile Solutions P. Ltd.	655	Task Completed

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	Dynamics NAV 2013						
84	Supply, Delivery, Testing and Commissioning of Network Storage Devices of AEPC/NRREP	IDSC	Good	SQ	Bids are evaluating	-	Deadline 15 June 2015, 1.00 P.M.
85	Management Advisor to AEPC/NRREP	IDSC	Service	QCBS	-		Deadline 22 July 2015, 3.00 P.M.
86	Printing, Supply and Delivery of Success Stories	GESI	Goods	DS	-	-	Deadline 16 June 2015-Not Conducted This Year
87	Third-party Monitoring/Verification of Installed Renewable Energy Systems-	MQA	Service	QCBS	Various 10 Firms	19631	10 Firms are selected, Inception & Draft Report Submitted
88	Supply and Delivery of Micro-Mini Hydro Projects Power Output & Household Verification Tools & Equipments (AEPC/NRREP/MQA/NCB-01-2071/72)	MQA	Goods	NCB	Associated Enterprises P. Ltd.	3800	Supply and Delivery Completed
89	Supply, Delivery and Installation of Server (Hardware and Software)AEPC/NRREP/MQA/SQ-01-2071/72	MQA	Goods	SQ	Sky Nepal Pvt. Ltd	448	Supply and Delivery Completed.
90	Selection of firm for Short-term Workforce to Assist Third-party Monitoring Activities	MQA	Service	LCS	SB Printing Solution	204	Task Completed
91	Conducting Pico/Micro/Mini Hydro Projects Power Output & Household Verification Inspectors Training in Kathmandu Valley	MQA	Service	QCBS	NMHDA	1298	Task Completed
92	Rental Charge of Colour and B/W copier Machine	MQA	Service	LCS	S.B. Printing Solution	204	Task Completed
93	Selection of Consultants (Firms) for Third-party Monitoring/Verification	MQA	Service	QCBS	-	-	EoI Deadline 31 July 2015, 2.00 P.M.



SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	of Installed Renewable Energy Systems-for 2014.15						
94	Plan and facilitate the validation workshop for Communication strategy and Action Plan	Outreach	Service	DN	White Lotus	290	Task Completed
95	Improvement of RSC/NSP Online Monitoring Software of RSC Performance	Outreach	Service	DN	Young Minds Creation Pvt. Ltd.	150	Task Completed
96	Preparing Online application system for maintaining Roster for DEECCO	Outreach	Service	DN	Mount Digit Pvt. Ltd.	100	Task Completed
97	Editing, Printing and Delivery of Story Book of four RE technologies	Outreach	Goods	DP	-	-	Deadline 15 June 2015-Not done this Year
98	Designing, Printing and Delivery of AEPC/NRREP Booklet (Nepali)	Outreach	Goods	DP	-	-	Deadline 16 June 2015-Not done This Year
99	Guideline Printing (Nepali and English Language)	PEU	Goods	DS	Graphic International	310	Task Completed
100	Procurement of Digital Camera (23 Pcs)	PEU	Goods	DS	Lumanti Enterprises	219	Goods Delivered
101	Printing, Supply and Delivery of Strategy and Guideline	PEU	Goods	DS	Fine Media P. Ltd.	300	Task Completed
102	Development of Manuals and Skill Development Training for Newly Established and Upgraded Computer Institute/Centre Powered By Renewable Energy Technologies (RETs)	PEU	Service	LCS	Young Minds Creation P Ltd.	299	Task Completed
103	Advance Skill Development Training for Tailoring Enterprises	PEU	Service	DN	Pathibhara Himalayan Polytechnic Institute Pvt. Ltd	143	Task Completed

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
104	Skill Development Training for Bakery Enterprises	PEU	Service	DN	International Hotel Training Centre, Pokhara, Kaski	98	Task Completed
105	Production of Informative Video (Audio Visual) Documentary on Micro, Small and Medium Enterprises (MSMEs)	PEU	Service	QCBS	-	-	Deadline 16 June 2015- Evaluating Proposals
106	Printing of Solar Home System Application form with Poster	SESC	Goods	DS	Graphic International	312	Work Completed
107	Printing of Poster-Solar	SESC	Goods	DS	SB Printing Press	290	Work Completed
108	Selection of Firm for The Solar Home Systems and Small Solar Home Systems Subsidy Application Form Processing	SESC	Service	QCBS	Young Minds Creation Pvt. Ltd.	850	Task Completed
109	Printing of Poster-Solar	SESC	Goods	DS	Fine Printing Press	285	Work Completed
110	Selection of Consulting Firm to Prepare implementation guideline-Solar	SESC	Service	QCBS	Practical Action Consulting Pvt. Ltd.	998	Task Completed
111	Selection of Consulting Firm to Prepare Technical guideline-Solar	SESC	Service	QCBS	Comptronix Pvt. Ltd.	995	Task Completed
112	QUALIFICATION AND EVALUATION OF SOLAR COMPANIES	SESC	Goods		-		Proposal Evaluation Process is on Going
113	Request for Proposal for Piloting Concentrated Solar Power Technology based system for Process Heat/Electrification in Nepalese Industry/Service sector	SESC	Goods	-	-		Task Completed
114	QUALIFICATION OF SOLAR COMPANIES TO PARTICIPATE IN DISSEMINATION	SESC	Goods	-	-		Proposal Evaluation Process is on Going

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
115	Flex Printing and Supply (1000 Pcs)	SESC	Goods	SQ	Classic Printing Services	338	Goods Delivered
116	Printing (Brochure, Poster and Manual)	SESC	Goods	DS	Classic Printing Services	96	Goods Delivered
117	Security Assessment Test of Online Subsidy Form Registration System of AEPC	SESC	Service	FBS	Entrust Solutions Nepal Pvt. Ltd.	271	Task Completed
118	Preparation of database of solar energy system components imported under VAT, Excise and Custom Duty exemption	SESC	Service	FBS	A Subedi & Associates	298	Task Completed
119	Design, Supply, Delivery, Installation, Testing and Commencing of 15 kW Solar Hybrid System at Borleni (Phaparbari VDC Ward No. 2, Makawanpur District, Nepal)	SESC	Goods	NCB		3200	Awarded by AEPC GoN Regular Sources
120	To review and update the existing Technical Three Manuals	SESC	Service	LCS	Solar Energy Foundation (SEF) Nepal JV with CES	380	Task Completed
121	Verification consultants to verify deviated cases of 12 <sup>th</sup> round of Quality Assurance and Monitoring of Solar Home System-3 Clusters	SESC	Service	LCS	Sahara Nepal,, Go Green and SETM	2100	Agreement Made
122	Production of Informative Video Documentary on Solar Energy Applications	SESC	Service	QCBS	-	-	Technical proposal evaluating
123	Supply, Delivery and Commissioning of Battery Testing Equipments	SESC	Service	NCB	Mahabir Shree International	5900	LOA Accepted
124	Solar Technician Level I Training	SESC	Service	QCBS		-	Deadline 19 June 2015- Not Awarded This Year
125	Solar Technician Level II Training	SESC	Service	QCBS		-	Deadline 19 June 2015- Not Awarded This Year
126	Solar Design Engineer Training	SESC	Service	QCBS		-	Deadline 19 June 2015- Not Awarded This Year
127	Operator Training of Rural Community Based Solar Drinking	SESC	Service	QCBS			Deadline 22 June 2015- Not Awarded This Year

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
	Water Pumping Projects (RSDWP/PVPS)						
128	Supply, Delivery and Installation of Solar Energy Systems for Earthquake Victims	SESC	Goods	NCB	-	-	Process Cancelled
129	Supply, Delivery and Installation of Solar Energy Systems for Earthquake Victims	SESC	Goods	NCB	-	-	Bids are evaluating- Not Awarded This Year
130	Short Listing of Institutions for Supply, Delivery, Installation and After Sales Services of Household based Solar Energy System	SESC	Goods/Subsidy	NCB		-	Deadline 31 July 2015- Amended
131	Procurement of Laptop	Admin/Finance	Goods	DS	Sky Nepal	290	Goods Delivered
132	Procurement of LCD Monitor and Accessories	Admin/Finance	Goods	DS	Sky Nepal	19	Goods Delivered
133	Procurement of Stationery Items	Admin/Finance	Goods	Ds	Munsar Global Link	225	Goods Delivered
134	Printing of Receipt	Admin/Finance	Goods	DS	Graphic Intl.	9	Goods Delivered
135	Procurement of Toiletry Items	Admin/Finance	Goods	DS	Plus Enterprises	225	Goods Delivered
136	Procurement of Kitchen Items	Admin/Finance	Goods	DS	Mission View Media	248	Goods Delivered
137	Preparation of Standing List for Goods Supplier and Service Providers	Admin/Finance	Goods+ Service	-	-	-	Standing List Prepared
138	Selection of Advertising Agencies	Admin/Finance	Service	SQ	-	-	6 Agencies Selected for Different Newspaper
139	Selection of Travel Agencies	Admin/Finance	Service	SQ		-	2 Agencies Selected for Domestic and International Sector
140	Selection of Courier Service Provider	Admin/Finance	Service	SQ	Lumbini Courier	-	1 Courier Selected
141	Selection of Drinking Water Supplier	Admin/Finance	Goods	SQ	-	-	Supplier Selected
142	Procurement of Photocopy Paper	Admin/Finance	Goods	SQ	Premium Trading	861	Task Completed
143	Procurement of Stationery Items	Admin/Finance	Goods	DS	Munsar Global Link	295	PO Issued
144	Procurement of Kitchen Items	Admin/Finance	Goods	DS	BK Enterprises	296	PO Issued
145	Procurement of Toiletry Items	Admin/Finance	Goods	DS	Plus Enterprises	295	PO Issued

SN	Task	Concerned Sub-component/Unit	Procurement Type	Procurement Method	Consultant/Supplier	Contract Amount (Rs.000)	Status
146	Procurement of Kitchen Items	Admin/Finance	Goods	DS	Muktinath Trade Concern	104	PO Issued
147	Procurement of Kitchen Consumable Items	Admin/Finance	Goods	DS	Plus Enterprises	296	PO Issued
148	Procurement of Laptop	Admin/Finance	Goods	SQ	Bids are evaluating- Not Awarded This Year	-	Deadline 21 June 2015
149	Procurement of Camera and Recorder	Admin/Finance	Goods	DS	Bids are evaluating- Not Awarded This Year	-	Deadline 15 June 2015
150	Short Term Management Advice to AEPC/NRREP	Admin/Finance	Service	DS	CSC Pvt. Ltd.	270	Task Completed