

Mitigating GHG emission through modern, efficient and
climate friendly clean cooking solutions (CCS)

Gender Assessment and Action Plan

Contents

List of Tables	3
List of Abbreviations	3
1.1 Gender Background	4
1.2 Gender and Energy Sector	7
1.2.1 Gender and Finances	8
1.2.2 Gender and cook stove	9
2 Gender Assessment	11
2.1 GCF rationale for Gender Assessment	11
2.2 Gender assessment	11
2.2.1. Status of Gender Equality	11
Annex 1: Stakeholder consultation Report	2

List of Tables

Table 1: Gender Profile	4
Table 2: Gender Action Plan	6

List of Abbreviations

ADB	Asian Development Bank
AEPC	Alternative Energy Promotion Centre
BFI	Bank and Financial Institution
CCS	Clean Cooking Solutions
CEDAW	Convention on the Elimination of All forms of Discrimination against Women
CRT/N	Centre for Rural Technology Nepal
ENPHO	Environment and Public Health Organization
FCHV	Female Community Health Volunteers
FECOFUN	Federation of Community Forest User group Nepal
FHH	Female Headed Households
GDI	Gender Development Index
GESI	Gender Equality and Social Inclusion
GEM	Gender Empowerment Measure
GII	Gender Inequality Index
GS	Gender Specialist
HDI	Human Development Index
ICS	Improved Cook stove
IP	Implementation Phase
MFI	Micro-finance Institution
MoWCSC	Ministry of Women, Children and Senior Citizen
NDHS	Nepal Demographic and Health Survey
NRREP	National Rural Renewable Energy Programme
TCS	Traditional Cook stove
WDP	Women Development Programme
WoNEE	Women's Network of Energy and Environment

1 Introduction

1.1 Gender Background

The International Women's Year (1975) and the United Nations Decade for Women (1976-85) created a wave of activity for bringing women in the development mainstream worldwide. Post this, a series of the status of women in Nepal studies were carried out throughout 1979-81. The policy to promote women's participation in development appeared for the first time in the Sixth National Plan (1980-85) of the country.¹ Nepal has accessed Convention on Political Rights for women on April 26, 1966, followed by ratification of Convention on the Elimination of All forms of Discrimination against Women (CEDAW) on April 22, 1991. Nepal has also ratified Optional Protocol to the Convention on the Elimination of All Forms of Discrimination against Women on June 15, 2007, signed the Beijing Platform for Action, and the International Conference on Population and Development +10. The treaties established a way forward to mainstream Gender Issues in state laws and policies.

The Constitution of Nepal promulgated in 2015, with the commitment to end gender discrimination, has guaranteed the equal right to property, right to safe motherhood and reproductive health rights, right to ensure proportional representation at all concerned levels as well as the right to enjoy fundamental human rights for all women. A separate code of conduct for the prevention of violence against women and girls has been introduced as the Sexual Harassment at Workplace Prevention Act 2015. Also, the Criminal (Penal Code) 2017 protects women and children, particularly minorities.

Women Development Programme (WDP) created in 1981 as a women development office with a vision for an equitable and prosperous society and prime strategies on mainstreaming, empowerment, and inclusion in the domain of Women's development. Since 2000, WDP has been operating with nationwide coverage. For gender issues and women empowerment, the functional ministry is the Ministry of Women, Children and Senior Citizen (MoWCSC). The Department of Women and Children under MoWCSC was created in 2000 and later reformed in 2010 with a mandate to do functional jobs in Women's development. National Women Commission was founded in 2001 as a constitutional body to protect women's rights, women's welfare, and incorporate women in developmental mainstreams and establish women's rights and gender equity.

Institutional Mechanisms for GESI Policy in Ministries, National Commissions for Women, Dalits, Indigenous Nationalities, Madhesis, Muslims, Tharus and a National Inclusion Commission that is mandated to protect the rights of Khas Aryas, Pichardiaka ("backward") class, persons with disabilities, senior citizens, labourers, peasants, minority and marginalized communities, people of the Karnali, and the indigent class, National Planning Commission, MoWCSC, and the Department of Women and Children in Central Level, with similar units in Provincial Level. GESI Mainstreaming Facilitation in Local Level is in process.

Nepal Demographic and Health Survey (NDHS) had conducted a survey in 2016 which provides reliable estimates at the national level, for urban and rural areas, 3 ecological zones, 5 development regions, and 7 provinces. It has summarised the status of women empowerment in three categories.²

- a. Employment: 68% of married women were employed in past 12 months compared to 97% of married women
- b. Ownership of assets: 8% own a home, and 11% own land alone or jointly; among men, 19% own a home and 21% own land alone or jointly

¹ Department of Women and Children, Nepal <https://www.dwc.gov.np/pages/history>

² <https://kathmandupost.com/national/2017/04/24/presidents-women-empowerment-programme-starts-in-26-districts>

- c. Participation in household decisions: 53% to make decisions about major household purchases

Separate governmental programmes such as ‘The President's Women empowerment programme’ started on March 07, 2017 to establish a gender-responsive governance system and a just society by developing and promoting women’s socio-economic empowerment and entrepreneurship.³ There are many parallel women empowerment programmes conducted at national and local levels by several NGOs.

The ministry of Federal affairs and Local development had introduced a Gender Equality and Social Inclusion Policy in 2009 as an uptake in women empowerment in social inclusivity in Local Development entities. The current 15th national plan has allocated the budget of NRs. 14.98 Billion to mainstream Gender equality and inclusion (GESI) principles into the governance system of provincial and local levels as an expected outcome of Provincial and Local government support programmes from 2019/2020 to 2023/24.

The current 15th national plan has the gender equality and women empowerment vision to “Build Nepal as a gender-equal nation.” It has identified the target indicators to fulfill in the year 2023/24 with reference to baseline data from 2018/19 tabulated below.⁴

Indicators	Baseline Year 2018/19	Target year 2023/24
Women representation in Legislation	33.81%	40%
Women representation in Local Governments	40.75%	41%
Women representation in Public Sector	24.7%	34%
Gender Development Index (GDI)	0.897	0.963
Women Empowerment		
Women Owned Enterprise (of total enterprise)	26%	40%
Household with house and land registered in women’s name	26%	33%
Gender Empower Measure (GEM)	0.57	0.64
Ratio of female and male labour participation rate	0.49	0.98
Ratio of female to male wages	0.49	0.98
Violence against Women		
Women who have victimized lifetime of physical, mental or sexual violence	24.4%	13%

³ Nepal Demographic and Health Survey 2016 <https://dhsprogram.com/pubs/pdf/SR243/SR243.pdf>

⁴ 15th national plan, National Planning Commission
https://npc.gov.np/images/category/15th_plan_English_Version.pdf

The World Economic Forum published a recent report on the Global Gender Gap 2020 where Nepal ranks 101th among 153 countries in the Global Gender Gap Index 2020 rankings ahead of China (106) and India (112)⁵. Among South Asia countries, Nepal ranks second after Bangladesh in regional level ranking. The report ranks the countries according to calculated gender gaps between women and men in four key areas: health, education, economy and politics. Key findings from the report are shown in Table 1.

	% Female	% Male	Female to Male Ratio
Economic participation and opportunity			
Labor force participation	84.5%	86.3%	0.98
Estimated earned income (PPP, US\$)	2.1	3.3	0.63
Legislators, senior officials and managers	18.4%	81.6%	0.23
Professional and technical workers	37.5%	62.5%	0.60
Educational attainment			
Literacy rate	59.7%	78.6%	0.76
Enrolment in primary education	74.8%	86.0%	0.87
Enrolment in secondary education	58.6%	56.5%	1.04
Enrolment in tertiary education	12.8%	12.0%	1.07
Health and survival			
Sex ratio at birth	-	-	0.94
Healthy life expectancy, years	62.1	60.5	1.03
Political empowerment			
Women in parliament	32.7%	67.3%	0.49
Women in ministerial positions	14.3%	85.7%	0.17
Years with female/male head of state (last 50)	3.7	46.3	0.08

Table 1: Gender Profile

⁵ World Economic Forum, *Insight Report. The Global Gender Gap Report 2020*. Geneva, Switzerland: World Economic Forum, 2019.

Human Development Report 2019⁶ shows that the Gender Inequality Index (GII) value of Nepal is 0.476, ranking it 115 out of 162 countries in the 2018 index. Whereas, 2018 female Human Development Index (HDI) value for Nepal is 0.549 in contrast with 0.612 for males, resulting in a (Gender Development Index) GDI value of 0.897.

1.2 Gender and Energy Sector

Normally energy policies are approached from a technical and gender neutral perspective and have implications for equality between women and men and for the poor. Improvements in women's health, girls' education opportunities, household nutritional status, and livelihoods can be led by alternative and rural energy technologies like rural electrification, micro hydropower, solar technologies. However, maximizing these benefits requires attention to the barriers that women and excluded groups face in accessing these technologies.

Major policy documents governing the energy sector include the Electricity Act 1992, Hydropower Development Policy, (2001), the National Water Resources Strategy (2002), 15th National Plan (2018-2023), the National Water Plan (2005), and the Rural Energy Policy (2006).

The legal and policy framework governing energy issues is largely silent on recognizing GESI as a factor requiring separate treatment, with some exceptions (e.g., Rural Energy Policy, 2006). A general trend evident in these legislations is that the more recent ones, especially those introduced post-2006, are more sensitive to GESI issues. For example, the Renewable Energy Subsidy Policy, 2016 is more GESI-sensitive in many more parameters compared with something like the Electricity Act, 1992.⁷ For instance, the Rural Energy Policy, 2006, among others, explicitly states "as rural energy is directly linked to activities traditionally carried out by the women, programmes of rural energy technology will be implemented considering it as an integral part of the women's enabling activities" (Article 10.6). The policy also emphasizes issues such community management, enhancing productivity of end users, and representation of excluded groups in user committees.

Policies which are more relevant to the project components would be Renewable Energy Subsidy Policy and Rural Energy Subsidy Delivery Mechanism, 2013 which have specific subsidies targeted to women and the socially excluded groups⁸:

- a. Additional subsidy of Rs. 2,500 per household will be provided to households with single woman, backward, disaster victim, conflict affected, poor and endangered ethnic group as identified by the Government of Nepal.
- b. For solar thermal technologies for rural areas, additional Rs. 20,000 will be provided if at least 50 percent of the target groups are single women, backward, disaster victim, conflict victim, endangered ethnic group.
- c. For biogas and metallic cookstoves, additional subsidies of up to NPR 4000 and 1000 are offered to single women, backward, disaster victims, and endangered poor households, ethnic groups.

The National Rural Renewable Energy Programme (NRREP) managed by AEPC, a 5-year programme that started in 2012, was an integrated version of different smaller programmes or projects. The

⁶ UNDP. (2019). Human Development Report 2019. Beyond income, beyond averages, beyond today: Inequalities in human development in the 21st century. Washington, DC: Author. <http://hdr.undp.org/sites/default/files/hdr2019.pdf>

⁷ ADB, 2018 <https://www.adb.org/sites/default/files/publication/401781/gender-equality-social-inclusion-assessment-energy-nepal.pdf>

⁸ RE Subsidy Policy 2013 [https://www.aepc.gov.np/uploads/docs/2018-06-19_RE%20Subsidy%20Policy,%202073%20\(English\).pdf](https://www.aepc.gov.np/uploads/docs/2018-06-19_RE%20Subsidy%20Policy,%202073%20(English).pdf)

NRREP programme mandated that specific affirmative action will be planned, implemented and monitored across all component activities, aiming to empower women and marginalized groups through enhancement of their technical capabilities and assisting them to take up ownership of technologies. A number of development programmes in Renewable Energy Sector of Nepal, such as the Biogas Support programme (BSP), the Rural Energy Development Programme (REDP), and the ADB-supported Decentralized Rural Infrastructure and Livelihood Project (DRILP) provide good practices in GESI integration that can be learned and integrated into programme planning.⁹

The GESI approach has been considered as a cross-cutting issue in all the programmes of Government institutions and NGOs. For instance, FECOFUN, a federation of Community Forest User Groups has a 50% representation of women with equally divided portfolios in the Executive Committee including people from all regions, indigenous peoples, minority groups, differently abled people, and ultra-poor. They practice Gender Equity and Social Inclusion (GESI) from Federal to local FECOFUN chapters. Similarly, Women's Network of Energy and Environment (WoNEE) is a national network of grassroots women willing to contribute to women's economic empowerment and ensuring energy and environmental justice in Nepal. It is also working to leverage funds from local governments and co-finance the e-cooking sector.

In most of the programs, it is found that women have less access to information through official channels as reviewed by Koojiman A, 2021. Also, the inability of the programmes to involve women in technical trainings and capacity building is also a reason of shortage of women technicians in the market which we have tried to mitigate by setting specific targets of women participation and involvement in technical trainings. Female Community Health volunteers have been the most effective medium of communication and awareness in community, learnt from their experiences in creating awareness in COVID pandemic or post-earthquake scenario.

An instrumental partner in the awareness creation and local monitoring activities of the project could be the Female Community Health Volunteers (FCHVs). It is reported that the community health interventions which are mobilised through FCHV have high population coverage and they can be an important factor for home visits and demonstration projects. They are also mobilised for COVID-19 awareness. Under the Green and Inclusive Energy (GIE) program, FCHVs were trained on prevention and control of household air pollution and further mobilised to train households on the benefits of clean cooking solutions.

Leadership ability of women and girls in the energy sector are undermined by prevalent gender norms and discriminatory gender roles. There is no such consideration of gender issues and inclusive financing as well. There is priority loan provision but it is more focused on youth and poor people, who want to initiate self-employed or micro enterprises. The barriers exist not just in the policy and legal framework, but also the institutions, programmes and implementation of energy and water sectors¹⁰. Moreover, there is no data available on segregated data on GESI in credit financing to market chain actors in RE technology.

1.2.1 Gender and Finances

The supply side of the energy sector has very few involvement of women technicians and experts. In the case of female household heads, they are more vulnerable than male heads to such external changes in terms of acquiring new knowledge and access to new resource bases¹¹. Therefore, special

⁹ Koojiman A., 2021 <https://mecs.org.uk/publications/gender-responsive-electric-cooking-in-nepal/>

¹⁰ Centre for Rural Technology Nepal 2018 <https://www.crtnepal.org/document/Annual%20Report%202018-wxzKeKGutX.pdf>

¹¹ <https://www.adb.org/sites/default/files/institutional-document/32561/women-nepal.pdf>

measures have to be taken to monitor that women family members and female heads of households receive adequate assistance.

Gender stereotypes for women to have less education, early marriage, and total responsibility in household has hindered women to work as technical human resource. Unlike in cottage and small scale industries, interventions to promote women's involvement as technicians are insufficient. In the value chain, representation of women has been the major barrier in policy sectors while their active participation has been the same at local level.

There is no such consideration of gender issues and inclusive financing as well. There is priority loan provision but it is more focused on youth and poor people, who want to initiate self-employed or micro enterprises. The barriers exist not just in the policy and legal framework, but also the institutions, programmes and implementation of energy and water sectors¹². No data is available on segregated data on GESI in credit financing to market chain actors in RE technology. There are few women led entrepreneurs in the clean cooking business that have been promoted by CRT/N and other agencies but those are very small in number and operate as a side business. For instance, Women's Network of Energy and Environment (WoNEE) is a national network of grassroots women willing to contribute to women's economic empowerment and ensuring energy and environmental justice in Nepal. It is also working to leverage funds from local governments and co-finance the e-cooking sector. In all provinces, there is no such initiation for GESI integration in the cookstove sector.

However, Nepal Rastra Bank directives to the banks and financial institution regulates them to lend up to 5% of their loan portfolio to the deprived sector that covers, low income, socially backward women, janjati, dalit, and differently-abled persons¹³. Loan extended by BFIs to MFIs on corporate guarantee for wholesale lending to cooperatives called deprived sector lending. MFIs and cooperatives being member based organisations usually are successful in targeting GESI objectives which is also usually part of their objective.

Most cooperatives and MFIs have more than 50% female members. Women have loan repayments above 95%. Therefore, these organisations are providing credit targeted beneficiaries for cookstoves. This approach has been a success also with win-win situations for BFIs, MFIs and cooperatives and strongly recommended for future acceleration of clean cooking projects¹⁴.

Credit financing through multipurpose cooperatives have been in practice to support several types of small businesses. Few examples of same to purchase electric cookstoves in Kavre district have been taken as case study by (Koojiman, 2021). Similar models will uplift the beneficiaries' capacity to bear Capital expenses of cleaner cookstoves. This will create a conducive environment to make market sustainable.

1.2.2 Gender and cook stove

More than one half (52%) of the households in the country use mud-stoves for cooking purposes, followed by kerosene/gas stove (21 percent), open fire-place (22 percent), and smokeless stove (3 percent)¹⁵. The gender dimension imposes influence on the household activities specially kitchen,

¹²Centre for Rural Technology Nepal 2018

¹³ <https://www.crtnepal.org/document/Annual%20Report%202018-wxzKeKGutX.pdf>

¹⁴ Landscape Analysis of the cookstove Sector of Nepal, 2021

¹⁵ Central Bureau of Statistics. (2011). Nepal living standards survey 2010–11.

with girls and women bearing the majority of the negative effects of fuel collection and transport, household air pollution, and the use of time-consuming and unsafe cooking technologies. Overharvesting of fuelwood and fodder is also considered one of the major issues of deforestation in Nepal¹⁶.

The present unemployment rate in Nepal is 11.4 percent where the rate of female (13.1%) unemployment is higher in comparison to male (10.3%)¹⁷.

The gender assessment shows Nepal as a country with gender equality issues. Cooking is almost entirely carried out by women, requiring on average about 4 hours a day for cooking using a traditional cooking stoves¹⁸.

Women in Nepal spends about 142 minutes to collect the firewood whereas men spends only about 50 minutes¹⁹. Likewise, the study shows the involvement of women in collecting agricultural residue and cow dung is 70.2% whereas involvement of men is only 29.8%, this shows that in collecting of both firewood and biomass fuel involvement of women is much more than men²⁰.

Despite having plenty of engagement in cooking, women have not been able to make decisions in selection of cookstoves. They have less or no access to information through official channels. For female headed households or single women, if they are illiterate, there are many challenges for them to have privilege of clean cooking technologies. They are so busy in earning their livelihood that they are not even able to utilize the benefits they are eligible to. These are the major barriers in the cookstove from gender's perspective, which would be somewhat addressed by the GAP activities 1.1.2 on selection criteria of beneficiaries, and 3.1.1 and 3.2.1 on selection of CCS mobilizers.

In Nepal, on average, there are 18.3 *bharis* (headloads of about 30 kg on average) of firewood collection per capita per year in Nepal. On average, a household spends 5.01 hours collecting one *bhari* of firewood²¹.

WHO estimates global 3.8 million people yearly die prematurely from illness attributable to the household air pollution caused by the inefficient use of solid fuels and kerosene for cooking. A study on Household Air Pollution by ENPHO found that the average 24-hr mean PM_{2.5} concentration in Nepali kitchens is 2127 µg/m³ with Traditional Cooking Stove (TCS), and with ICS it is 728 µg/m³.

¹⁶ Chaudhary et al., 2015. Deforestation in Nepal: Causes, consequences and responses.

https://www.researchgate.net/publication/284859236_Deforestation_in_Nepal_Causes_consequences_and_responses

¹⁷ Report on Nepal Labour Force Survey 2017/2018. <https://nepalindata.com/media/resources/items/20/bNLFS-IIIFinal-Report.pdf>

¹⁸ Practical Action, 2014. *Gender and Livelihoods Impacts of Clean Cookstoves in South Asia*.

¹⁹ Venkata Ramana Putti, Michael Tsan, Sumi Mehta, & Kammila, S. (2015). *The State of the Global Clean And Improved Cooking Sector*.

²⁰ Practical Action, 2014. *Gender and Livelihoods Impacts of Clean Cookstoves in South Asia*.

²¹ *ibid*

2 Gender Assessment

2.1 GCF rationale for Gender Assessment

The GCF's commitment to gender equality centers on gender-responsive country programmes and initiatives that benefit everyone, women and men. This requires gender analysis to understand the social, economic and political factors underlying climate change-exacerbated gender inequalities, and the potential contributions of women and men to mitigating and adapting to climate change, and building climate resilience. It further entails adopting methods and tools to promote gender equality and reduce gender disparities in climate funding by mainstreaming gender in the project cycle. Finally, it means measuring the outcomes and impacts of project activities on women's and men's resilience to climate change through gender-responsive monitoring and evaluation (M&E). Gender mainstreaming should shape the entire project cycle, from project identification to M&E²².

2.2 Gender assessment

The project benefits about one million households, comprising 4,800,000 people (average family size of 4.8 people per household) in *Terai* region. 51% of direct beneficiaries are female. The direct beneficiaries of the project comprises about 17% of total population. Also, about 13 million people of *Terai* region are considered as indirect beneficiaries of the project of which 51% of the beneficiaries are female. The indirect beneficiaries of the project accounts for about 50% Of total population.

The TCS users are the most vulnerable community as they are among the poorest and socially excluded groups. 23.44 % of the population in the *Terai* region survive under absolute poverty. Against this, 33 % of the population are disqualified to cross the threshold of human poverty. In addition, 25.9% *Janajati* (Indigenous group) and 38.2% *Dalits* population of *Terai* live under extreme poverty²³.

2.2.1. Status of Gender Equality

i. Social norms and Practices

Social norms adequately contain gender inequalities. Traditionally, it is widely practised for women to be involved more in the household activities like cooking, cleaning, laundry, gardening, and child care. Referring to the statistics, women are behind men in all the indicators in economic participation and opportunity, which is because of the established norm that women should only work inside homes. Women are expected and even forced to have early marriages, which hinders the women to have equal opportunity as men. The women of indigenous communities and those below poverty line will have these hindrances amplified. Working women and women with income have good access to the project activities and benefits.

²² https://www.greenclimate.fund/sites/default/files/document/guidelines-gcf-toolkit-mainstreaming-gender_0.pdf

²³ CBS, 2011. Nepal Living Standard Survey 2010/2011. https://cbs.gov.np/wp-content/uploads/2018/12/Statistical_Report_Vol1.pdf

ii. **Major Indicators and Political Participations**

Female literacy rate, employment in professional sectors, education, political representation and political participation are relatively low, while labour force participation, life expectancy and population is somewhat equivalent or even higher relative to that of male population. Provisions of women reservations in political space and public sectors are there, but despite that, women involvement is less visible due to established boundaries and gender norms set for women. Mandatory nomination of one of chair or vice chairperson of Local government executive body and reserved nomination of 2 out of 6 ward members for female is a progressive sign observed since 2016 local elections. At least 33% of reservation for females in provincial and national assemblies is also supportive.

iii. **Policy environment**

Gradually, the policies have been made to mainstream gender equality and social inclusion in all the sectors. Integration of GESI policies upto Provincial Level has opened up an environment to take them to local levels. In the current fiscal year, several local governments have drafted their policies for GESI integration and many others are in the process. However, a big challenge is to implement those policies at local levels. Parallely, independent efforts have been made at local and national levels by Non-Government Organizations, and other agencies to speed up the process. Several gender assessment reports and reviews submitted to the ministries and authorities have helped to create proper guidelines to amend policies and make them gender friendly. The GESI policy of AEPC envisions to have equal and equitable access, opportunities and benefits of renewable energy to both the female and male based on their social status, ethnicities, income, age, physicality, geographic background and projected affected people. The objectives are to empower women, and less privileged people by creating employment opportunities, to increase participation and capacitate them and to help overcome traditional social norms that hinders the user to have equitable access to Renewable Energy Technologies by providing suitable opportunities.

iv. **Legal Framework**

The legal provisions of action against Gender based violence are secured in the Constitution of Nepal 2015 and Muluki Ain 2017.

v. **Poverty & Income**

The per capita income stood at US \$ 1,004 (Rs 103,335) in the fiscal year 2018/19 and the main portion of income goes for sustaining livelihoods. In 2016, Nepal achieved a score of 0.148 according to the multidimensional poverty index (MPI), with around 22.3% population vulnerable to Multidimensional Poverty (MP), 11.6 in severe MP, and 15 % below income poverty line²⁴.

vi. **Economic Status and Empowerment**

²⁴ Human Development Index Report, 2019 http://hdr.undp.org/sites/all/themes/hdr_theme/country-notes/NPL.pdf

Women's labour force participation rate, employment status and overall situation in the labour market show their economic status has improved. Yet the labour market remains marked by many structural barriers and forms of deep-rooted discrimination.

The labour force participation rate in general and women's rate in particular have significantly decreased in recent years. The Labour Force Survey of 2008-2009 showed that the labour force participation rate of women was 80.1 percent, compared to 87.5 percent for men, one of the highest rates in South Asia. Based on the 2017-2018 survey, compared to 48.3 percent of males of working age in employment, only 22.9 percent of females were in employment. Among all working-age women, almost 52.4 percent were either own account workers or contributing family workers compared to 27.7 percent of men²⁵.

vii. **Participation in Formal and Informal Economy**

Nepali girls and women work for more than boys and men, spending 25 % to 50 % more time on households' tasks, economic and agricultural activities. Yet, due to the nature of women's work, which is often unpaid, on the one hand, and the flawed definition of economic activity, on the other hand, women's economic participation remains statistically invisible. Women in the more orthodox Hindu communities who are largely confined to domestic and subsistence production display a much less significant role in major household economic decisions than those in the Tibeto-Burman communities where women participate actively in the market economy.

The role played by women in the care sector, predominantly their reproductive work, bearing, rearing, nurturing children and household maintenance are activities that fall outside the national accounting systems. While these activities are crucial for household members' well-being and effective participation in different spheres – economic, social and political, they continue to remain non-economic activities. By virtue of women performing these roles, which are statistically not counted as economic and hence not monetarily valued, women's roles and their contribution is assigned low status.

viii. **Education, literacy and information**

Gender gaps in the education sector continue to persist, where girls and women tend to have lower levels of education, especially in rural areas. The percentage of women participating in primary education has increased substantially in the last two decades, where the number of women completing 12 grades rose from 21% to 42%²⁶. Nonetheless, equality can still be promoted in terms of access to education, especially in rural areas where studies have found that girls' education often remains a lower priority

ix. **Land Ownership**

Land and house ownership by females is very low compared to that of male. Despite having incentives like Land registration fee waivers for women, it is not able to have instrumental

²⁵ Nepal Human Development Report, 2020. <https://nepal.un.org/sites/default/files/2020-12/UNDP-NP-NHDR-2020.pdf>

²⁶ CBS 2014

change in increasing the percentage of asset ownership by women. The provision in the amendment of Muluki Ain 2017 has made daughters eligible for the inheritance of parental property, which wasn't the same earlier. As ownership relates to the decision-making power inside a family, women are weaker from that perspective too. Involvement of bigger proportions of females in program implementation would empower them and address this barrier.

x. **Health**

Reproductive health has largely been funded by the government. Each local government has a number of health posts to facilitate general and reproductive health issues and health posts with birthing centres to promote hospital based deliveries. Travel and nutrition allowances are provided to all the hospital/ health posts based delivery cases. Further, the Ministry of Health has also implemented family planning programmes in all its subsidiaries.

xi. **Gender Based Violence**

A nationally representative sample of 12,862 women aged 15-49 in 11,040 surveyed households and 4,063 men aged 15-49 in half of the surveyed households were interviewed. Based on that, the 2016 NDHS (Nepal Demographic Health Survey) provides reliable estimates at the national level, for urban and rural areas, 3 ecological zones, 5 development regions, and 7 provinces.

Table: Domestic Violence (among women aged 15-49)

	Women who have ever experienced physical violence since age 15	Ever-married women who have experienced spousal, physical, sexual, or emotional violence
Nepal	22%	26%
Urban Residence	21%	25%
Rural Residence	24%	28%
Focal Areas of the Project		
Province 1	19%	22%
Province 2	34%	37%
Lumbini Province	23%	29%
Sudur paschim Province	17%	22%

A relatively high rate of gender violence has been observed in Province 2, which is also a focal area of the project and requires some additional measures to help reduce the risk of gender violence. However, the project impacts will not instigate any gender based violence.

xii. **Gender and Energy/Environment**

Energy and Environment sectors have been recognized as gender neutral sectors, based on their technicalities. Policies before Rural Energy Policy 2006 have not been gender friendly. As alternative energy is a newer concept and institutionalized with the help of international grants,

this has been more lenient to gender issues. Stakeholder consultation and public hearing programmes under Environmental Protection Acts seek for inclusive participation. Since the sector is of global concern, it is ahead of other sectors in mainstreaming Gender issues.

Conclusion:

Barriers to an equal representation up and down in value chain includes traditional social norms biased against women, poverty as a result of limited access to education, early marriage, limited asset ownership. Furthermore, women's participation is limited to decision making and income generating activities, and technical workforce.

Gender Assessment Team

A core gender assessment team was formed, comprising:

- Key experts on clean cooking solutions
- GESI expert
- Key government authorities and,
- Representatives of civil societies, including individual from the network of women right movement

In addition to the core gender assessment team, stakeholder consultation space was formed to incorporate inputs from energy and clean cooking experts, government officials, GESI experts, women movement representatives and women right activists, women-lead national and local NGOs, private sectors (including the ones headed by women) in both service-supply and service-demand chain.

Recommendations from stakeholder consultations (Annex 1)

- Training and Awareness should target the female (users) and not the household head. Training should be provided to women on electrical safety and basic technical skills on using induction stoves increases the use of the stove and increases their confidence.
- Capacitate females to repair and maintain stoves to ensure sustainability and empower women.
- The poorest and most vulnerable communities cannot purchase the Tier 3+ ICS and even if the stoves are distributed free of cost, fuelwood is another major challenge. Most of them use cow dung as fuel, which is not compatible with the available technologies. Research should be more focused to make technologies compatible with available local fuel sources so the most vulnerable can assess the technologies.
- Women should be involved as CCS promoters to effectively implement the project and the project should be targeted to the female and most vulnerable communities.
- Gender-specific targets should be set to ensure that certain numbers of female and male entrepreneurs are trained as master trainers to reflect the needs of women and men in their products, business models, and livelihood opportunities.

Project Identified Opportunities to Challenge Gender Stereotypes

Some of the actions that are included in the project activities for the positive gender relations in the project as follows:

1. The economically impoverished and socially excluded families, indigenous people, single women, female-headed households, and widows will be priorities while selecting beneficiary households.
2. The project will assist LGs in placing dedicated personnel related to environment safeguard and gender in CCS projects. In addition, they will be supported in conducting gender sensitive monitoring, evaluation and provide training on CCS and its benefits.
3. For the national level consultation workshop between AEPC, LGs, beneficiaries, clean cooking champions, and local private sector service providers, training materials will be developed by drafting mechanisms to effectively address gender equality and supporting vulnerable communities through CCS.
4. The beneficiaries will receive technical assistance and capacity development services that will help to reduce their vulnerability and build resilience to climate change impact through the time saving, health benefits, gender empowerment and increase in agricultural productivity by using cow dung as fertilizer, by replacing its use for cooking fuel.
5. The project enhances women's access and entitlement to benefits. Since women are direct users of the cook stoves, it will benefit women by reducing their exposure to indoor air pollution, thereby improving their health. Besides, reduction of fuelwood after the installation of more efficient stoves will reduce the workload of women to collect fuelwood, resulting in time saving that they can use for other productive activities such as getting an education and care for children or socialize²⁷. More than 50% of the time will be saved via the proposed CCS.
6. The project will address existing barriers in promotion of CCS to poorest households by improving access for vulnerable communities and providing support and training on repair and maintenance of proposed technologies to women and marginalized groups to ensure inclusive sustainability of the project. There are several local NGOs working in the clean cooking sector. The project shall collaborate to mobilize their resources in awareness campaigns and skill development training.
7. A total of 24 Province level trainings will be provided to CCS beneficiaries and vulnerable groups in collaboration with CTEVT institutions. In addition, 1,200 training will be provided on making fuel for Tier 3+ ICS, repair and maintenance, biomass fuel processing, biogas installation, electrical safety and house wiring to CCS beneficiaries and vulnerable and disadvantaged groups (DAG). Training will be provided to women (electric cook stove users) on electrical safety and basic technical skills on using electric stoves to increase their confidence and the use of the stove. Self-employment skilled training related to CCS and others as per the local demand will be provided to the most vulnerable people such as widows, single women, Female headed households, minor ethnic groups, lower caste people (Dalit) and indigenous group (Janjati), ensuring at least 33% female participation.
8. The project provides financial support for the proposed CCS technologies, which will allow vulnerable user communities to transition to better CCS technologies with high returns.

²⁷<http://documents1.worldbank.org/curated/pt/772731563431443718/pdf/Have-Improved-Cookstoves-Benefitted-Rural-Kenyans-Findings-from-the-EnDev-Initiative.pdf>

9. LGs and local communities will learn a lot from the use of CCS as the project will create awareness on and access to CCS, inform the vulnerable people of benefits in terms of health and efficient systems.

3 Gender Action Plan (GAP)

GAP forms the basis for operationalizing the results and recommendation of the gender assessment. It incorporates gender elements during project formulation (and design), project implementation and project monitoring & evaluation. GAP ensures necessary intervention to mainstream gender and integrates gender-perspective in the project to maximize clean cooking benefits. The GAP is compliant with GCF’s gender policy and AEPC’s Gender Equality & Social Inclusion policy.

The GAP is aligned with the outputs of the log frame and planned output and activities. Additionally, the programme will document the positive and negative effects the program activity will have on gender relations by setting up adequate, gender-sensitive monitoring and collecting sex-disaggregated data. Gender-sensitive language is used in reports, training materials and publications. Different partner entities and stakeholders (AEPC, LG, and vendors) will execute GAP in their program management capacity.

Table 2: Gender Action Plan

	<p>Impact Statement: Reduced GHG emissions and increased resilience and enhanced livelihoods of the most vulnerable people, community, and region by implementing modern, efficient and climate friendly cooking solutions</p> <p>Outcome Statement: Improved access to clean cooking in the southern plains of Nepal including the most vulnerable households (Poor, Female Headed Households (FHH), widowed, minorities, differently abled and elderly) by creating an enabling environment to adopt clean cooking solutions; leading to significant health and economic benefits by reducing exposure to household indoor air pollution and time savings for firewood collection and food preparation.</p>					
	Cross-Cutting					
Activities	Associated GAP activities	Associated activities and Measures	Indicators and Targets	Timelines	Responsibilities	Cost
All Institutional and Managerial		i) Managerial arrangements during project formulation, implementation, and monitoring & evaluation	i) At least one Gender Specialist (GS) throughout the project -Gender balance in stakeholder meet & representations	All years/periodic	AEPC	Use AEPC’s existing talent

arrangement during project formulation, implementation, and monitoring & evaluation)		- Gender expert/specialist runs workshop/capacity development trainings to gender focal person in stakeholders			pool (Est. USD 22500 and USD 135000 to hire third party GESI expert consultant)
	Revision of programme documents, training materials, promotional materials to ensure effective gender-mainstreaming, and that the information is gender-sensitive.	All major communication materials and awareness- raising campaigns are reviewed by program's GS and M&E specialist	Periodic (every year)	AEPC (GS) /LG	Included within the activity budget for
	Gender sensitization training for project staff at all levels to maintain desired level of gender awareness	# of trainings (each year), # of project staffs receiving gender awareness training (target-100%)	Periodic	AEPC (GS) /LG	Training, workshop and conference (C1, C5, C7, C11, C12, C16, C17)- Annex

					8
	Encourage the effective participation of women in different points of project formulation, implementation, and monitoring & evaluation. Time and locate training taking into women's work.	% of female participation (Target: Progressive) (Baseline: varied based on different point of project cycle; location and others)			Included within the budget of activity
	Include gender specific questionnaires (to include current positioning on socio-economic aspects; effective accessibility- to financial, technical resources; awareness on entitlements and endowments) in baseline survey (sex disaggregated data collection) specific to the local region. All baseline and feasibility surveys to include gendered impact of desired change (access, needs, barriers, potentials, work load benefits) GAP will be revised/updated after the baseline survey	# of baseline survey conducted in year 1 (target: all targeted area)	Year 1 (Prior to PI phase)	AEPC/LG	
	Conduct stakeholder consultation workshop at the local level and revise GAP tailored for them	Inclusion of fieldworkers, female workers, female technicians, potential CC champions, representatives from indigenous communities, LG representative); detailing at PI phase	Year 0 (Prior to PI phase)	AEPC (GS)/LG	
	Output: Installed 490,000 Tier 3+ICS, 10,000 biogas and 500,000 electric cook stove				

	GAP Objective: Ensure women's equal and equitable access, to and benefit from different points of service-supply and service-demand chain in installation of technologies.					
Activity 1.1.1 Development of Annual Procurement and Deployment Plan, 1.1.2 Procurement and Deployment of annual targeted number of CCS	Ensure gender inclusion in both the service-supply (procurement and deployment plan) and service-demand (beneficiaries)	i) Develop beneficiary selection prioritization scoring system (based on socio-economic vulnerability indicators including Female headed households (FHH), single women, widows, and indigenous people. (At PI phase)	i) Detailed prioritization scoring system to be included at SOP developed at project implementation phase (IP). ii) % of women and men participants in awareness campaign; (target: min 60%) (Baseline: variable in each specific region from 30-60%); region specific targets revisits CCS mobilizers (Target- 50% women Door to door awareness champions (Target- 60% women) (Target revisit after annual survey)	Year: 1-5	AEPC (gender specialist)/ LG (gender focal person)	
Activity 1.1.3 Distribution of initial 60% payment instalment to the vendor upon delivery of CCS to respective municipality		ii) Increased awareness on tax leverage & incentives, and credit/loan facilities for women entrepreneurs on service-supply and, promotional activities, awareness, and outreach to enhance demand iii) Have gender focal point for all partners and relevant stakeholders (vendors, partners, LGs)	iii) Gender focal point (or gender responsible) in each partner and stakeholder	Year: 1-5	AEPC/LG/P artners	Include d within the budget activity (Annex 8) and uses AEPC's existing talent pool.
Activity 1.1.4		i) Ensure gender parity in training	i) # % of women certified as 'independent verifier'	Year 1-5	AEPC	

Monitoring and Verification of Installed CCS units for Output Based Financing	Gender parity in monitoring and verification	and AEPC-issued certification of 'independent verifier' ii) Sex-disaggregated data collection during monitoring and verification by 'independent verifier'	Target- at least 33% Baseline- 0 ii) survey and verification sheet (to generate gender statistic) - developed at IP	(annual)		
Output: Enabled environment (enhanced product standards, surveys and analysis and quality assurance mechanism) GAP Objective: Create gender inclusive environment in strengthening quality assessment and assurance mechanism.						
Activity 2.1.1 Develop partnership agreement between AEPC, Province Governments, Local Governments, and other implementing partners 2.1.2 Update existing standards and set benchmarks for the technologies required for the project implementation	Ensure gender inclusiveness in design of normative policies & plans, standardization with strengthened women representative from different stakeholders	i) Create gender diverse/inclusive board and stakeholder's consultation space for the formulation of MEP template and other normative and standardization processes. ii) Provide 'CCS and GESI' related trainings to technical staffs and board members iii) Consider gender (in the context of stakeholder roles, institutional responsibilities, resource access and benefit sharing) in designing municipal energy plan (and guidelines)	i) % of women in board meetings and stakeholder's consultation Target: Min 33% of women in the board and stakeholder's consultation (Revisit target periodically) ii) # of gender session in capacity building and workshops to LG, MEP/standardization formulation board (Target: mandatory gender sessions in all trainings) (Baselines: Technical staff have received no training or in rare cases (limited training) in gender issues pertaining to CCS.	Periodic over 5 years	AEPC(GS)	Included within the budget activity (Annex 8) and uses AEPC's existing talent pool.

2.1.3 Develop Municipal Energy Plan template by analysing standards and format						
2.2.2 Development of Management Information System as a national monitoring system with real time data collection from LGs	Mainstream gender and sensitivity in data collection and MIS design	Collect sex-disaggregated and gender relevant data (To be reviewed with progressive targets annually)	Gender sensitive 'data collection methodology' and questionnaire guide Survey in the 3rd quarter of year 1: (Periodic review, follow up-surveys and progressive targets)		AEPC (GS), Independent Verifier, LG	
<p>Output: Empowered institutes, capacitate supply chain and ensured increased access to clean cooking solutions</p> <p>GAP Objective: Ensuring fair access to women in service-supply and service-demand chain</p>						
Activity 3.1.1 Conduct national stakeholder consultation workshop between AEPC, PG and LG Activity 3.1.2	Mainstreaming gender in local and provincial institutional setup to increase employment and volunteering opportunities to	<p>i) LG to mainstream gender in their institutional setup for energy units, CCS mobilizers and CC champions in support of GS (AEPC) and GESI responsible at LG.</p> <p>ii) Increase employment and volunteering opportunities to women through preference to women for CCS mobilizers; qualified women</p>	<p>i)50% female (75 nos) for CCS mobilizers of total recruits (150); 60% female (270nos) for CC champions focus on marginalized communities.</p> <p>At least 1 woman as energy officer (out of 2) in energy units, in each province</p>	Periodic (for 5 years)	AEPC	Estimated \$

<p>Develop LG Municipal Energy Plan</p> <p>3.2.1 Mobilize clean cooking mobilizers in each LG</p>	<p>women</p>	<p>encouraged to apply for energy units in provincial level</p> <p>iii) Ensure effective participation of women, civil society and gender experts, local women led organizations, representations from indigenous group in consultation space for LG municipal energy plan</p> <p>iv) LG municipal energy plan (and guidelines) explicitly need to considers gender related issues(e.g. In the context of stakeholder roles, institutional responsibilities, resource access and benefit-sharing</p>				<p>1,282,500.00 for CCS mobilizers ;</p> <p>Others included within the budget activity</p>
<p>3.1.3 Capacitating Local Government and Provincial Governments</p>	<p>Gender sensitive approach in capacity development approach and plan</p>	<p>i) Place a dedicated person on GESI responsible at LG to conducting gender sensitive monitoring and evaluation</p> <p>ii) Ensure that training materials, promotional to ensure effective gender-mainstreaming, and that the information is gender-sensitive.</p>	<p># of capacity development trainings (target- 1 in each LG), # of GESI sessions in each workshops (target- 150), # % of female participation in workshops (baseline: varied in each LG (30-50%); target: min 60%)</p>	<p>Periodic (for 5 years)</p>	<p>AEPC (GS), LG (GESI focal point), LG</p>	
<p>3.1.4 Annual national level review and consultation meeting</p>	<p>Gender elements to be reviewed and revised</p>	<p>Qualitative and quantitative survey on gender-based elements (designed at PI phase)</p> <p>Collect and analyse sex-disaggregated and gender relevant</p>	<p>Indicators of GAP will be fully integrated in the M & E framework at SOP and reviewed periodically,</p> <p># of gender-specific</p>	<p>Periodic (for 5 years)</p>	<p>AEPC (GE)/Independent Verifier/LG</p>	

		data used for correction of measures aiming to hold all partner accountable to gender equality	recommendations, include elements of GBV and other gender related implications of project			
3.3 Strengthen service centre, biomass manufacturers to provide quality and affordable clean cooking solution	Ensure women's participation (from different point of supply-demand chain) and include gender elements	<p>i) Ensure easy access to women in the distribution and after sales service- repair and maintenance by promoting subsidised credit/loan facilities</p> <p>ii) Increase women's participation in the technical trainings (repair and maintenance, biomass fuel processing, biogas installation, electric safety and house wiring) training in provincial level</p>	<p># of enterprises women-owned and/managed by women participation in trainings (baseline survey to be carried out during PI) (Target- progression)</p> <p># Of technical trainings provided to beneficiaries (target: total of 24 trainings to beneficiaries and service centres) with minimum 33% participation of women) in collaboration with CTEVT (baseline survey assumes minimum to none)</p> <p># of women beneficiary participation in skill development trainings (Target: min 33%)</p>	Periodic (for 5 years)	AEPC/Vendors/LG	

Annex 1: Stakeholder consultation Report

Sub-national Stakeholder Consultation Meeting for “Mitigating GHG emission through modern, efficient and climate friendly clean cooking solutions (CCS)”

AEPC had called for an interaction program on 22nd June 2020 with National Stakeholder and relevant stakeholders on the proposed project Mitigating GHG emission through modern, efficient and climate friendly clean cooking solutions (CCS) to collect their feedback on the project. The online consultation meeting started at 3 Pm sharp (NST) via Zoom. In total, around sixty people attended the meeting. It was facilitated by Mr Mukesh Ghimire, Assistant Director of AEPC, where Mr. Rana Bahadur Thapa, Sr. Officer, AEPC gave a brief overview of the project and solicited necessary information from the participants. Mr Nawa Raj Dhakal, the Deputy Executive Director of AEPC, gave the concluding remarks. The meetings enabled interested and concerned parties to contribute their concerns, which might have been overlooked while preparing the concept note. Majority of the participants appreciated the project and wished for its smooth implementation. Additionally, meaningful consultation will be conducted periodically during the implementation phase with the concerned stakeholders with active participation of women's, Dalit's and vulnerable groups.

The tentative topics for discussion includes but not limited to:

1. Role of LGs and involvement of NGOs at local level

- Awareness on climate change at local level
- Energy planning and Role of local government in CCS promotion including funding (Municipal Energy Plans, Implementation, Any CCS program ongoing or implemented, what %of budget is usually allocated for CCS projects?)
- Any new policy/plans for CCS?
- NGOs currently working on CCS at local level and possibilities to engage them for the project

2. ESS Risks/issues and mitigation measures

- Key social, environmental, gender, economic and culture risks and issues with respect to CCS
- Possible mitigation measures

3. Local level supply Chain

- Baseline fuels for cooking,
- Capacity of local supply chain in meeting local demand,
- Any information of supply and demand of CCS at local level
- Expectations to improve the supply chain

Feedback

- It is very good idea to involve Provincial Energy Coordination Committee (PECC) in province 2, Province 5 and Karnali Province for prioritizing the demand as this committee includes representative from provincial ministries, provincial planning commission, NEA province office, AEPC province team, NARMIN and MuAN.
- Training and Awareness should target the female (users) and not the household head.

- Experience from the past should be analysed to ensure financial, utility, commodity sustainability of the project
- Value chain of ICS (Supply to target group users) should be analyzed to fulfil the gap
- Move forward by catching up bitter experience and golden experienced
- Community should be mobilized in stove distribution (trust fund).
- Local governments should be consulted to reach the poorest of the poor.
- We need to assure the quality of cookstoves and construction of biogas.
- Poverty rate in the Terai region is very high and there are households and communities who don't have NEA meters or the households who cannot keep the meter due to lack of land holding documents. Thus, we need to address these households and communities.
- People were hesitant to adopt the mud ICS may be due to cultural or social barriers. Biogas seems to have much demand compared to ICS so the numbers should increase.
- Community forest spends 25% of their total income in forest conservation and they have been spending the money in biogas and ICS. 37% poor female and vulnerable community can be integrated in community contribution for the project.
- Previous World Bank funded, REED and other projects are more focused in the Terai region so may need to consider other geographical areas.
- Biogas and electric cooking does not benefit the poorest of the poor. Therefore, we need to explore more on how to make these pro-poor.
- Actual demand should be created while collecting demand and exploring the supply side. Options of various technologies should be given to the user to ensure the use of the stoves after deployment.
- Coordination with local government, involvement of females in stove making, distribution, and financial contribution of users creates the enabling environment for stove promotion. At present, each local government has female representatives. They should be enrolled as a facilitator for the long run of the project.
- The poorest and most vulnerable communities cannot purchase the Tier 3+ ICS and even if the stoves are distributed free of cost, fuelwood is another major challenge. Most of them use cow dung as fuel which is not compatible with the available technologies. Research should be more focused to make technologies compatible with available local fuel sources so the most vulnerable can assess the technologies. Research development disseminations and delivery possibilities should be included in the project.
- Cooperation, collaboration, and coordination should be done with the province level agriculture and forestry ministry.
- Activities relating to backward and forward linkage of the project should be carried out parallel along with technology installation. For example, installation of biogas should be linked with promotion of livestock farms and slurry management to promote the CCS.
- Strengthen supply chain by mobilizing the local workforce to provide after sales service.
- Stove design should meet the users' needs such as space heating, agro processing and commercial cooking.
- Access to finance, access to information (how are we giving information to the illiterate), low level of mobility of female should be included
- Awareness campaign should focus on both male and female

- Coordination, collaboration, and coordination should be strong enough. LG has allocated much of its budget in renewable energy and women empowerment. Thus while identifying partners; criteria should be transparent to gain more weightage.
- Free distribution kills the market. Project should not have contradicting policies. In addition, the concept of free distribution should be strongly eliminated.
- Monitoring has to be the part of implementation.
- Coordination with Province level ministries (Agricultural, Tourism, Forest and Environment) to include them in project implementation or monitoring
- Conservation significant area such as buffer zone, vicinity of forest area should be prioritised
- ICS favorable for water heating and space heating to be focused in high altitude area
- More budget should be allocated in technology deployment and should be given to users directly at local level and less in trainings and awareness
- Extended to new geographical area to include Karnali pradesh
- NGOs play an important role in Community mobilization, leadership and awareness campaigns and demand creation. Collaborate with NGO to effectively implement the project.
- Women promoters to effectively implement the project and targeted to the female and most vulnerable communities
- Service centre at each province, repair maintenance centre, development of local manufacturing company makes the project sustainable
- Collaborate with private sector, microfinance, NGOs,
- Projects should be demand driven and should be focused on need.
- Training to women on electrical safety and basic technical skills on using induction stoves increases the use of stove and increase their confidence
- Capacitate female to repair and maintenance to ensure sustainability and empower women
- Research and development to make technologies more efficient rather to replicate the same old technologies
- Strengthen existing Network rather than establishing new ones and allocate more budget to users.
- Sustainability: after sales service and focus on user sensitive programs to increase the use
- Different financial package of support to poorest of the poor people to effectively implement the project
- Shifting to electric cooking may take long time, technical efficiency to user and private sector
- Focused on Socially adaptation of technologies
- Technological capacity development to ensure sustainability
- Provincial/local government should share the cost in technology
- AEPC budget should be focused on enabling environment including the development of
- Need to consider the technological barrier in adopting the electric cookstoves.

List of participants:

First Name	Last Name	Email	Organization	Job Title
Bhupendra	Kandel	bkandel@sundarnepal.org.np	Sundar Nepal Sanstha	Executive Director
Ishwar Chandra	Khanal	ishwar.khanal@aepc.gov.np	AEPC	Senior Officer
Hira	Ghale	kajighale@gmail.com	Namsaling Community Development Center (NCDC)	Team Leader
Pradeep	Budhathoky	pbudhathoky@gmail.com	GIZ RERA Programme	Technical Advisor
Tufel	Khab	tufelk4@gmail.com		
Rana Bahadur	Thapa	rana.thapa@aepc.gov.np	AEPC	Sr. Officer
Jagdish	pathak	jagdish.pathak90@gmail.com	Ministry of Physical Infrastructure Development, Province-5	Engineer
Kushal	Gurung	grgkushal@gmail.com		
Nawa Raj	Dhakal	nawa.dhakal@aepc.gov.np	Alternative Energy Promotion Centre (AEPC)	Deputy Executive Director
Kala	Timalsina	kalatimalsina@gmail.com	WoNEE	
Arjun	Subedi	subediarjun00@gmail.com	AEPC	Engineer
Krishna Prasad	Dhakal	kpbs.surkhet@gmail.com	K.P. Byabasayik Sewa Pvt.Ltd.	Managing Director (MD)
Anjee		surenpandit977@gmail.com		
Indira	Shakya	indirashakya@gmail.com	Centre for Rural technology	Gender and Energy Expert
Surendra	Pandit	just2suren@gmail.com		
Tek	Balayar	balayartb@gmail.com	RDSC	Team Leader
Krishna Prasad	Dhakal	dhakalkp@gmail.com	MOITFE, Gandaki	Division head
Robin	Sharma	robin_sharma@nrepnepal.com	NREP	provincial coordinator
Arun	Dongol	arun_dongol@yahoo.com	Kathmandu Alternative Power and Energy Group	Feasibility Study for Energy Efficient Cooking Technologies and Efficient Cities
Kimon	Silwal	kskimonsilwal@gmail.com	KAPEG	Staff
Keshab Bahadur	Khadka	kgynuwakot@gmail.com	kishan gobar gas udhyog	
Subik	Shrestha	Subik_stha@hotmail.com	MoPID, Sudur Paschim	Engineer
Sujan	Paudel	sujanpaudel495@gmail.com	AEPC/SREP	ESS Verification and

				Monitoring Officer
Pankaj	Kumar	pankaj.16jan@gmail.com	DAI Europe	Provincial Coordinator
Sunil	Karna	sunilkumarkarna1968@gmail.com	MoITFE, Province No 2	Under Secretary
Srijana	Bote	srijanabote483@gmail.com	Kawasoti Municipality Ward 15 Nawalpur	Office Helper
Kalyan	Bastola	Info@tsn.com.np		
Hari	KC	acharyakc.hari@gmail.com	national solar and order suppliers	managre
Lila	Karki	redapalpa@gmail.com	REDA Palpa	Executive director of REDA
Sushmita	Dulal	sushmitadulal@gmail.com		
Ghanendra	Bhandary	ghanendrabhandary11@gmail.com	NCDC	Engineer
Shivalal	Karki	lalshiva0@gmail.com		
Dil Bahadur	Ayer	aidyuttam@gmail.com	Shuklaphanata Municipality, Kanchanpur Nepal	Mayor
Parbata	Bhatta	prabata.bhatta@aepc.gov.np	AEPC	Sr. Officer
Kala		kala.wonee@gmail.com		
Gopal	Sharma	dhital.gopalsharma@gmail.com	Ministry of Physical Infrastructure Development, Karnali Province, Surkhet	Senior Divisional Engineer
Vidya Deo	Joshi	vidyaa.joshee@gmail.com	PIU/AEPC-P7	Sr. Officer
Pitamber	Pandey	pitamberpnd10@gmail.com	AEPC	ESS Verification & monitoring officer
MOPID-1	Biratnagar	moirprovince1@gmail.com	Province 1, Government, Nepal	Clean cooking Solution CCS
Damodar	Tiwari	damodariti@gmail.com	Mopi	
Somhari	Tripathi	tripathisukdev@gmail.com	KAPEG	Electrical Engineer
Rima	Sah	rimasah468@gmail.com	Women Network for Energy and Environment	Member
Debu	KC	kcdebu12@gmail.com		
Ayush	Acharya	ayushacharya17@gmail.com		
Namrata	Tusuju Shrestha	Namrata_Shrestha@NREPnepal.com	program analyst	
Birkha	Shahi	birkha.shahi1@mail.com	FECOFUN	General secretary
Ajay	Thapa	ajay_thapa@nrepnepal.com	Nepal Renewable Energy Program	Provincial Coordinator
Sandeep Kumar	Kanth	sandipkumarkanth@gmail.com		
Jivan	Shrestha	jivanstha2046@gmail.com	Ministry of physical infrastructure development, Gandaki	Engineer

			province	
Rajeev	Shrestha	rajeev.shrestha@aepec.gov.np	AEPC	ESS Verification and Monitoring Officer
Krishna Chandra	Poudel	krishnachandra.poudel@aepec.gov.np		
Abhay	Karna	Abhay_Karna@NREPNEPAL.COM	Nepal Renewable Energy Program	Programme Analyst (Province No. 2)
Sirjana	Thapa Magar	dcrdc@ntc.net.np	DCRDC, Bglung	Chairperson
Ashish	Bhatta	ashishbh07@gmail.com	SREP\AEPC	Province Engineer
Nigma	Tamrakar	ntamrakar09@gmail.com	Freelance consultant	GESI expert
Ishwor	Pandey	ito.bhimsenthapamun@gmail.com	BhimsenThapa Rural Municipality	Mayor
Damodar	Tiwari	damodarti@gmail.com	AEPC/MOPID Gandaki province, Pokhara	Engineer
Mukti	Chhetri	mukti.chhetri@aepec.gov.np	Alternative Energy Promotion Centre	Finance Expert
Mukesh	Ghimire	mukesh.ghimire@aepec.gov.np	AEPC	Assistant Director
Prem Kumar	Pokhrel	prem.pokhrel@aepec.gov.np	AEPC	Climate and Carbon Financing Expert

Photographs

Zoom Meeting | You are viewing Rana Bahadur Thapa's screen | View Options

Government of Nepal
Ministry of Energy, Water Resources and Irrigation
Alternative Energy Promotion Centre
Making Renewable Energy Mainstream Supply in Nepal

Green Climate Fund

- Financial Mechanism within UNFCCC, established (COP 16- Cancun) to help developing countries to invest in low carbon resilient development.
- Acts as operating entity for implementing Paris Agreement
- Can access funding through different three windows.
- Half of the adaptation pool for LDCs, SIDS and African states.
- International Channel or Direct access by country.
- Direct access through Direct Access

```

    graph TD
      A[Adaptation] --- B[GCF funding windows]
      B --- C[Mitigation]
      B --- D[Private sector facility]
  
```

Zoom Meeting controls: Unmute, Start Video, Participants (48), Chat, Share Screen, Record, Reactions, Leave

Windows taskbar: Type here to search, 3:18 PM 6/22/2020

You are viewing AEPC Online Meeting's screen | View Options

Debu KC	Gopal Sharma	Vidya Deo Joshi	Pradeep Budhat...	pankaj kumar
Dil Bahadur Ayer	Jagdish pathak	ROBIN SHARMA	K	Ayush Acharya
Arun Dongol	Rajeev Shrestha	Subik Shrestha	Kushal Gurung	Parbata Bhatta
Tufel Khab	AThapa	AKumarKarna	Kimon Silwal	Pratima KC

Zoom Meeting controls: Unmute, Start Video, Participants (47), Chat (4), Share Screen, Record, Reactions, Leave

Windows taskbar: Activate Windows, Go to Settings to activate Windows.