

ANNUAL REPORT 2021/2022



CLEAN ENERGY NEPAL

August, 2022



CEN EXECUTIVE BOARD AND STAFF TEAM

CEN has its Executive Committee consisting of renowned experts in national and international level having expertise in environment, energy, climate change, air pollution and media sector. The executive committee is an important asset for the organization as it is providing strategic leadership for the organization since its establishment. CEN currently comprises a staff team of 7 young professionals (including one supporting staff) with diverse expertise. The group is an energetic and dynamic young, experienced, dedicated and motivated to work for the organization.

<u>EXECUTIVE BOARD</u>	<u>STAFF TEAM</u>
<ul style="list-style-type: none"> • Mr. Bhushan Tuladhar, Chairperson • Mr. Rajan Parajuli, General Secretary • Ms. Kriti Shrestha, Treasurer • Mr. Manjeet Dhakal, Member • Mr. Suman Basnet, Member • Ms. Amita Thapa Magar, Member • Ms. Rassu Manandhar, Member • Kamal Raj Gosai, Member 	<ul style="list-style-type: none"> • Lalmani Wagle, Interim Program Coordinator/ Senior Program Officer • Barsha Parajuli, Program Coordinator • Deependra Dangol, Admin & Finance Manager • Bimal Chhetri, Admin & Finance Officer • Anju Koirala, Program Officer • Nabina Tiwari, Program Officer • Sonam Shrestha, Research and Knowledge Management Associate • Kamala Baskota, Supporting Staff

MESSAGE FROM THE BOARD CHAIR

Dear Friends and well-wishers of CEN,

We are pleased to present this Annual Report of Clean Energy Nepal for the year 2021/22. As in previous years, our achievement has grown and we are continuing our journey “Sustainable Environment for all”. Clean Energy Nepal was established in 2000 A.D. and in past 2 decades, CEN has been an active organization leading research based education and evidence based advocacy campaigns.

From the time of establishment of CEN has been contributing to build the capacity of local public, youth, professionals, educators, students and different government institution by enhancing their knowledge on Climate Change, Air Pollution, Sustainable Transport, Sustainable Development Goals and other several issues related to environment conservation. The momentum is continuing this year too. While achieving our goal, we have expanded our partnership not only with the national and international organizations, but also with all tiers of government (local, provincial and federal), media and academic institutions.

CEN organized several capacity building trainings, consultation programs, policy dialogues and interventions in Kathmandu, Surkhet, Dhangadhi, Illam, Pokhara, Biratnagar, Dhulikhel, Itahari, Udayapur and Dharan during different occasions. Despite partial hindrance by the Covid-19 pandemic, for this year, local weather station has been installed in Belaka Municipality, Udayapur. The farming community, municipal government authorities and stakeholders have been trained on using ProMS mobile application, a platform, through which information including weather forecast could be accessed that helps in planning and preparedness. With CENs advocacy and lobby, Dhulikhel Municipality and Itahari Sub-Metropolitan City has endorsed FFNPT campaign, a solidarity to global initiatives to phase out fossil fuels and support just transition. Furthermore, CEN organized capacity building on monitoring low cost sensors for young people in Surkhet, Dhangadhi, Pokhara, Illam and Kathmandu. These youths further collected data from pollution hotspot areas. Moreover, Fuel Economy Labelling Scheme for LDVs in Nepal has been prepared to sensitize the government to take initiative in developing Auto-Fuel Economy Labelling Scheme for LDVs. We would like to thank our staff team for their hard work, enthusiasm and commitment who pursued optimum efforts to create cleaner and greener environment. We are equally thankful to all our partners, collaborators, and well-wishers for their continued support and cooperation and expect that this support and collaboration will expand further in the coming years as well.

Bhushan Tuladhar
Chairman
Clean Energy Nepal

ACKNOWLEDGEMENT

CEN would like to take this opportunity to thank all the collaborating partners, donor agencies, and well-wishers for being with us throughout this year. In particular, we are thankful to the US Embassy in Nepal, CARE Nepal, United Nation Environment Program (UNEP), Asian Disaster Preparedness Center (ADPC), Arbonaut Ltd., Climate Action Network South Asia (CANSAs), Climate Action Network (CAN), Fossil Fuel Non Proliferation Treaty (FFNPT) Global Campaign and Save the Children for their invaluable support in this fiscal year 2021/22.

We would also like to thank the Central Department of Environmental Sciences (CDES), Tribhuvan University, Center for Energy Studies (CES), School of Environment Science and Management (SchEMS) and all the partner organizations for their collaboration during various events throughout the year.

CEN also acknowledges the beneficiaries of our project for their intense sincerity and effort they invested in Agro-met Advisory Services (AMAIS) to build security pilot project and National Farmers Group Federation (NFGF) for the coordination and support.

We are thankful to Clean Air Network Nepal (CANN), Climate Action Network South Asia-National Steering Committee (CANSAs-NSC) and Nepalese Youth for Climate Action (NYCA), & Climate Change Network Nepal (CCNN) members for their strong bondage to take the joint efforts to success. We would like to remember the great collaboration and support provided by NYCA and its regional chapters throughout the year.

We would also like to express our sincere gratitude towards the Government of Nepal, and the government institutions and officials who provided full support to implement all the programs and projects. We highly appreciate the coordination from the Department of Environment (DoEnV), Ministry of Forest and Environment (MOFE), Department of Transport Management (DoTM), Ministry of Physical Infrastructure and Transport (MoPIT), Social Welfare Council (SWC), District Coordination Committee (DCC) Kathmandu, Kathmandu Metropolitan City (KMC) Lalitpur Metropolitan City (LMC), Belaka Municipality, Udayapur, Birendranagar Municipality, Dhangadi sub-Metropolitan City, Illam Municipality, Pokhara Metropolitan City, Siddharthanagar Municipality, Janakpurdham Sub-Metropolitan City and Biratnagar Metropolitan City. Finally, we would like to extend our appreciation to the volunteers who were part and parcel of each and every step in 2021/2022.

CEN Family

CLEAN ENERGY NEPAL AT A GLANCE



HIGHLIGHTS OF ACCOMPLISHMENT FOR THE YEAR 2021/2022

1. Action/Research

Program / Action	Outcomes
Developing Fuel Economy Label Scheme for the LDVs in Nepal	<i>A Fuel Economy Labelling Scheme for the LDVs in Nepal</i> document was prepared. The document will be the feed for CSOs to advocate policy makers towards formulating a Fuel Economy labelling Scheme for LDVs in Nepal.
An automatic Local weather station and display board has been installed at Belaka Municipality, Udaypur.	Belaka Municipality authorities and the municipality office visitors can view the real time weather data (temperature, rainfall, humidity) from the display board. Further Municipality authorities including agri-technicians, municipality officials, media, academia, lead farmers, and youths can access the weather data recorded from the weather station and model generated; through ProMS application (both web and mobile).
Installation of low-cost air quality sensors	Air quality data is accessible through TSIIlink. 8 low cost sensors (Bluesky, TSI) have been installed in 7 American spaces at Dhangadi, Surkhet, Pokhara, Biratnagar, Illam, Bhairahawa, Kathmandu and 1 in Jakpurdham Sub-Metropolitan Office Building in collaboration with CDES, TU. The air quality data availability will support in the data driven advocacy and lobby.
Youth engaged on data collection through low cost sensors.	47 youths from 5 cities (Dhangadi, Surkhet, Pokhara, Biratnagar, Illam and Kathmandu) were capacitated on monitoring low cost sensors. Among these youths, 25 further engaged in data collection from the air pollution hotspot areas through Open Seneca (low cost sensor). The collected air quality data will be the feed for the status papers for the cities and support in the data driven advocacy.
A research on the understanding of Nepali young people on climate change	Data gaps are fulfilled and knowledge/ data generated for supporting data driven advocacy and lobby.

Photographs



Figure 1: Low-Cost Sensor installed in Illam



Fig 2: Youth using open Seneca for hotspot identification



Figure 3: Weather station in Belaka Municipality, Udayapur



Figure 4: Display board in Belaka Municipality

2. Policy Dialogue and Advocacy Interventions

Program / Action	Outcomes
Webinar on “Solutions to Air Pollution due to Open Burning”	During the webinar, experts discussed on the contribution of air pollution in Kathmandu and its health impacts and also on the solutions to open waste burning. 67 participants including representative from Ministry of Health and population, Department of Environment, health practitioners, academia and development partners were sensitized to take action against open burning.
Nepal Climate Discussion on IPCC Sixth Assessment Report (AR6): What its outcomes mean for Nepal	The key results of IPCC report focusing on Nepal’s vulnerability and approaches that need to be integrated to tackle the unpredicted impacts of climate change was shared among 104 participants from different backgrounds including government agencies, civil society organizations (CSO), academia and youths.
National workshop on Air pollution in Nepal: Issues, Challenges and the mitigation options.	During the discussion, experts highlighted on various issues and challenges of air pollution and gave an overview of policies, practices. The discussion gave recommendations for policy makers.
Discussion on “Shifting to Euro VI Emission Standard in Nepal”	20 participants representing MoFE, DoE, Municipal authority, SWC, media, academia, youth and CSOs discussed on Environmental and economic consequences of shifting to Euro VI emission standard. The participants were sensitized on shifting to Euro VI emission standard.
Discussion on “Key issues and challenges in promoting e-mobility in Nepal”	55 participants including representatives from DoE, MoFE, DoTM, NEA, AEPC, entrepreneurs, media, youth and CSOs and development partners discussed on key issues and challenges including promoting e-mobility in Nepal.
Stakeholder consultation on air pollution.	Consultation among government, CSOs, development partners, academia, youths and media in Dhangadhi, Surkhet, Illam and Biratnagar to discuss on sources of air pollution, impacts, policy intervention and initiatives by local bodies to reduce air pollution and identify air pollution hotspots. The discussion directed the youths in selecting the sites for air quality data collection through open Seneca.
Provincial and National Consultation on the possible	Knowledge disseminated to the multi-stakeholders (including MoFE, DHM, NARC, municipal authorities,

<p>way forward for addressing the climate innovation at Belaka into policy and up-scaling</p>	<p>CSOs and partners, youth, academia and media) at both Provincial and National level on piloting the climate innovation (Mobile application). Collected feedbacks from the multiple stakeholders on making the innovation user friendly and possibilities of upscaling.</p>
<p>Nepal climate discussion on “Fossil Fuel Non-Proliferation Treaty (FFNPT): Opportunity for shifting cities’ energy base towards renewable”</p>	<p>Solicit views and suggestions from civic and policy planners groups (25 participants) on the FFNPT concept and discussion on endorsement of FFNPT agenda in favor of renewable energy based economic models for Nepal.</p>
<p>Fossil Fuel Non-Proliferation Treaty (FFNPT) Campaign Solidarity Symposium”</p>	<p>Consultation with 60 participants representing Municipal governments (Mayor, Deputy Mayor, ward chairpersons, Municipal officers) at Dhulikhel Municipality and Itahari Sub-Metropolitan City on prospects of renewable energy based economy and FFNPT agendas. Fossil Fuel Non-Proliferation Treaty (FFNPT) Campaign has been endorsed by Dhulikhel Municipality and Itahari Sub-Metropolitan City.</p>

Photographs

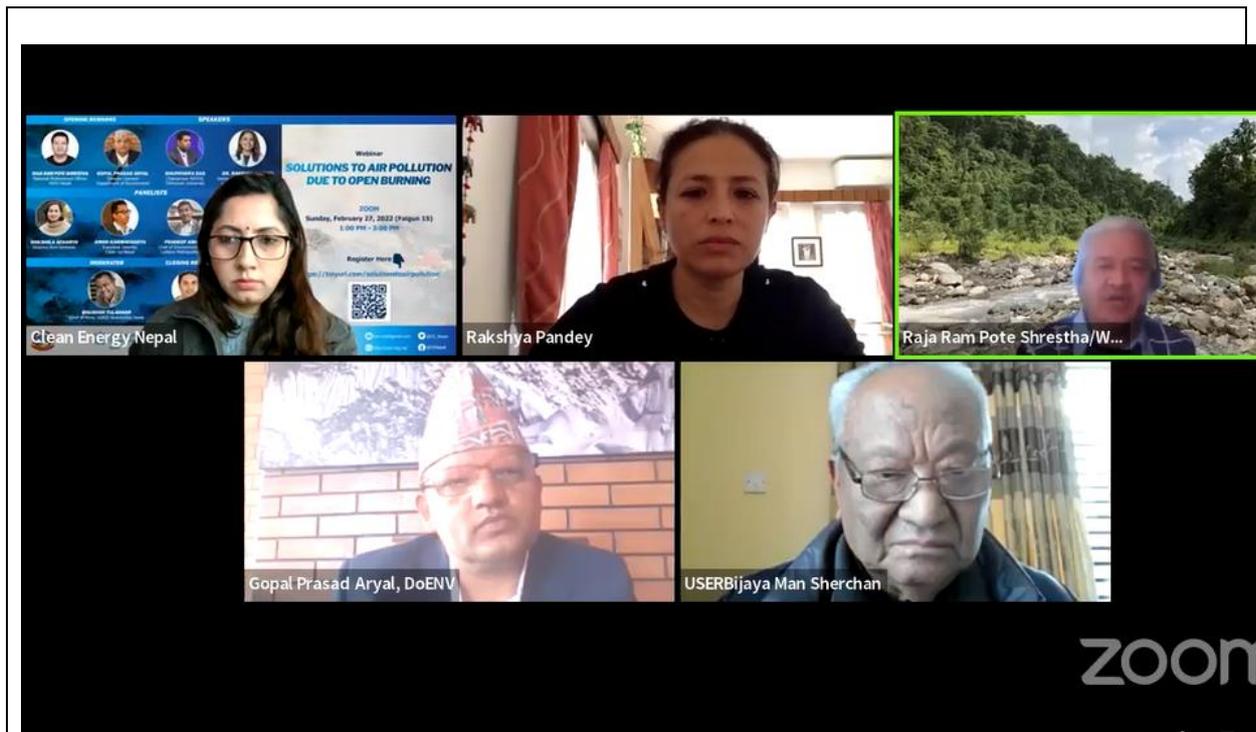


Figure 5: Webinar on Solution to Air Pollution due to Open Burning



Fig 6: Stakeholder consultation in Surkhet



Fig 7: Stakeholder consultation on air pollution issues in Dhangadi



Fig 8: National Sharing Consultation on learning from piloting ProMS mobile application



Fig 9: Provincial Sharing consultation



Figure 10: Discussion on “Shifting towards Euro VI emission standard in Nepal”

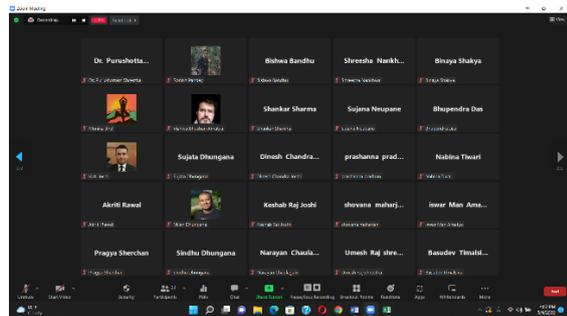


Fig 11: Discussion on “Issues and Challenges in promoting e-mobility in Nepal”



Figure 12: Multiple stakeholder's discussion on FFNPT campaign



Figure 13: Discussion on "Fossil Fuel Non-Proliferation Treaty (FFNPT) Campaign Solidarity Symposium at Dhulikhel Municipality and Itahari Sub Metropolitan City

3. Awareness and Capacity Building

Program / Action	Outcomes
Virtual sharing session of COP 26: What is the Nepal's progress and strategies for COP 26?	85 participants from different background including MoFE, civil society organizations (CSO), academia and youths were updated on COP26 negotiations process and how the developing and least developed countries are pushing the developed high carbon emitter countries.
Nepal climate discussion on “Post COP 26: Outcomes and way forward”	COP 26 key outcomes, decisions and Nepal’s commitment to action shared/discussed with stakeholders 25 participants from different backgrounds including government agencies, civil society organizations (CSO), academicians, and youths attended the program.
Youth Capacity building on Air Pollution Monitoring.	Young people including NYCA (at Dhangadi, Surkhet, Pokhara, Kathmandu, Biratnagar and Illam) were sensitized on air pollution (sources, impacts) local and international aspect of air pollution. Capacitated youths collected data from different locations through low cost sensors.
Orientation to youth on air pollution and climate change	56 Students from Aishwarya Multiple campus, Dhangadi and Community Agriculture Illam were oriented and sensitized on the local issues of air pollution and climate change.
Seminar on Fuel economy and Exhaust Emissions Measurement in LDVs (Light Duty Vehicles) and Policy Development and Awareness Program	Awareness about Fuel Economy Labelling and E-Mobility Promotion in Nepal Draft fuel economy labeling scheme for LDVs have been prepared. Stakeholders including car dealers, companies and other government officials sensitized on the importance of electric vehicles.
Three Hands-on training on ProMS mobile application and feedbacks collection.	The farming community, municipal authority, youth, media, academia from Belaka Municipality are, able to use the ProMS mobile application and access information. ProMS app as an end product is more user friendly than the initial version as feedback for improvements in the application (ProMS) were

	collected during all the training sessions and incorporated.
CEN podcast	Disseminated the knowledge of the experts on the issues of climate change. Sensitized local people, government and other concerned stakeholders.
Green Discussion series:	More than 8 sessions throughout the year where 550 youths directly benefited from the shared learning's virtually.
7 days 7 capacities Building session :	7 days 7 capacities building session was organized from 1st July-7th July. These sessions were focused on topics like drafting a mail, video making, effective communication skills, graphic designing, and blog writing along with campaign designing. These session capacitated the participants with the technical expertise on computer skills.
100th Day Climate Awareness:	Climate awareness 100 weeks was celebrated by making a short video clip related to environment protection and sustainability. For the video nepali words related to protect the environment and for its sustainability were included. This enhanced the interest to explore the new Nepali environmental words.
Residential Climate Training	A three-day residential program with a motto, "Train to Tackle, to Win Climate Change Battle" with youth below 29 years from Gandaki province was organized by NYCA Pokhara group The youths were able to grab knowledge on "Climate change and it's scenario in Nepal", "Youth Involvement", campaign designing and advocacy.
Capacity Building sessions:	25 youths including core members, regional chapter's representatives and XV volunteers were capacitated on media and communication, advocacy, research, budget financing, GESI, project and evaluation and campaign designing.

Photographs



Fig 13: Sharing outcomes of COP 26 virtually



Fig 14: After the seminar on fuel economy and exhaust emission measurements in LDVs



Fig 15: Youth training in Dhangadi



Fig 16: Orientation to youths in Aishwarya Multiple Campus



Fig 17: Youth training in Dhangadi and Pokhara



Fig 18: Youth training in Pokhara



Figure 19: Post-COP 26 Event



Figure 20: Orientation Training



Fig 21: Residential Climate Training
Climate Talk



Fig 22: Climate Talk

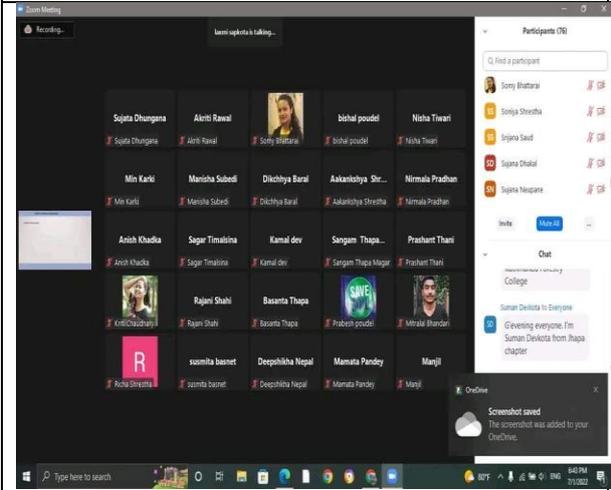


Fig 23: 7 days 7 capacities Building
Sessions



Fig 24: Climate Smart Farm Baitadi



Fig 25: Teacher's Training on Climate
Change



Fig 26: Capacity Building Workshop

4. Campaign and Demonstration

Program / Action	Outcomes
FFNPT Campaign	Municipalities including Dhulikhel Municipality, Itahari Sub Metropolitan City, Dharan Sub-Metropolitan City, Pokhara Metropolitan City, Lalitpur Metropolitan City along with civil society organizations and leaders were sensitized on FFNPT campaign and promoted to end the use of fossil fuels shifting to renewable energy.
FFNPT Campaign (Youth)	More than 200 youths were directly engaged in the Campaign. Information sharing through photo and video helped to raise awareness and sensitize youth about fossil fuel non-proliferation treaty as well as climate crisis. 112 slogan was collected from youth all over Nepal which inspired them to take action. Social media outreach was more than 10,000 through the campaign. Youth workshops helped youths to learn about fossil fuel and also described youth roles to reduce fossil fuel consumptions.
School and Awareness Campaign	Through school and college awareness campaigns, we have reached more than 1200+ children and youth from different schools and colleges and shared about the climate and environment. They are taught the huge impact of small acts of kindness to the environment through video, documentary and different activities. It was conducted throughout the month as per feasibility of the student and school/colleges given by their examination dates.

Photographs



Fig 27: School and College Awareness Campaign



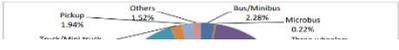
Fig 28: FFNPT Campaign

5. Knowledge Generation and Information Sharing

Program / Action	Outcomes
Fact Sheet on Global Climate Change Campaign: Fossil Fuel Non-proliferation Treaty	Background information about the global initiative to phase out fossil fuels disseminated to multiple stakeholders.
‘Our Concern’ newsletter	Recent happenings on clean air, energy, urban mobility and climate change issues including local, national and international news compiled and disseminated to the stakeholders/readers.
Fuel economy and exhaust emissions measurement in Light- Duty Vehicles (LDVs)	The results/information obtained from the detailed study shared among all stakeholders (government agencies, transport entrepreneurs, academicians, and media) Through a common platform ideas, opinions, and suggestions about the existing fuel economy and exhaust emissions scenario of Nepal collected.
Publication of Policy Brief “Lessons from mobile app based delivery of agro-met advisory services to the Belaka farmers”	Lessons learned from piloting mobile app based delivery of agro-met advisory services to the Belaka farmers disseminated to provincial (province 1) and national stakeholders.
A video documentary covering the implemented climate innovation at Belaka Municipality, Udaypur.	Importance of weather information at local level shared with multiple stakeholders different tiers of government of Nepal (Federal, Provincial and Local), development agency, partners and donors.

 facebook More than 7000 people	 twitter More than 1300 followers
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Photographs

 <p>Policy Brief No. 1 • July 2022</p> <p>Lessons from mobile app based delivery of agro-met advisory services to the Belaka farmers</p> <p>About the initiative The project supported approx.5000 local farmers in accessing and applying real time weather information for refining their crop planning calendar; thus, saving time, costs and efforts. The achievement was possible through development, testing and application of a mobile app called ProAMS, which is equipped with agronet related early warning and varieties of weather information including rainfall, temperature, humidity, risks of flood, landslides and forest fire. The project was executed by a competitive grant from ASPC for innovative climate challenge competition. Arbonaut in partnership with CEN won the competition for this project which they implemented in collaboration with Belaka Municipality and Federation of Farmers Groups between Jan and Jul 2022. Ministry of Forest and Environment of Nepal endorsed the project as a climate compatible initiative for municipal level activities.</p> <p>Approach The uniqueness of the project lies on its interactive mobile app that was designed and developed with essential features required for the local farmers. A sophisticated automatic weather station has been established and operationalized in the municipality complex with digital display board. The real time data of the station is accessible to all those using the app. Testing with the farmers who carry a smartphone revealed that the app is quite useful for them to making wise decisions regarding appropriate weather conditions for farming activities such as seeding and harvesting of crops.</p> 	<p>Policy Brief on Air Pollution & Health in Kathmandu Valley – Transport</p> <p>Introduction Air pollution is a major public health risk in Kathmandu Valley where the annual average concentration of PM_{2.5} is about five times higher than World Health Organization (WHO) guidelines (WHO, 2018). Realizing this, the Ministry of Health and Population together with the WHO is implementing the Urban Health Initiative (UHI) in Kathmandu Valley to build evidence on the health impacts of air pollution, enhance the capacity of the health sector and raise awareness on this issue. This policy brief on air pollution from transport in Kathmandu Valley is part of a series on different sources of air pollution in Kathmandu Valley and its linkage to health.</p> <p>Various studies have shown that transport – both vehicle emissions and resuspension of road dust – is a major contributor to air pollution in Kathmandu. Furthermore, with the number of vehicles continuing to increase rapidly, emission from this sector is bound to increase.</p> <p>The urban transport system in Kathmandu Valley is dominated by large number private vehicles, mainly two-wheelers, and a highly unorganized public transport system. The number of vehicles registered in Bagmati zone, most of which are in Kathmandu Valley, is increasing at a rate of over 12% per annum. Among these vehicles, more than 78 percent are two wheelers and only about 3% are public transport vehicles (DOTM, 2018).</p> <p>Figure 1: Types of Vehicles Registered in Bagmati Zone</p>  <table border="1"> <thead> <tr> <th>Vehicle Type</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Pick-up</td> <td>1.94%</td> </tr> <tr> <td>Others</td> <td>1.52%</td> </tr> <tr> <td>Bus/Minibus</td> <td>2.28%</td> </tr> <tr> <td>Microbus</td> <td>0.22%</td> </tr> </tbody> </table>	Vehicle Type	Percentage	Pick-up	1.94%	Others	1.52%	Bus/Minibus	2.28%	Microbus	0.22%
Vehicle Type	Percentage										
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Published policy briefs

 <p>तथ्य पत्रिका खनिज इन्धन अप्रसार संधि अभियान खनिज इन्धन प्रयोगको कारणबाट न्यूनीकरणको समर्थनका लागि विरव्यापी पहल</p> <p>परिचय</p> <ul style="list-style-type: none"> • खनिज इन्धनको अत्याधिक प्रयोगका कारण विरव्यापी रूपमा जलवायु संकटको सृजना भएको छ । • कोइला, तेल र ग्याँस जस्ता खनिज इन्धनको अत्याधिक उपयोगले गर्दा कार्बनडाइअक्साइड (CO₂), मिथेन (CH₄), नाइट्रसअक्साइड (N₂O) जस्ता हरितगृह ग्याँस उत्सर्जन भइरहेको छ । • विरव्यापी रूपमा CO₂ प्रतिवत हरितगृह ग्याँस उत्सर्जन खनिज इन्धनको प्रयोगले गर्दा हुने गर्दछ । • सबैभन्दा धेरै हरितगृह ग्याँस उत्सर्जन गर्ने राष्ट्रहरू चीन, संयुक्त राज्य अमेरिका, र युरोपियन संघ हुन् । • पेरिस सम्झौताद्वारा लक्षित १.५ डिग्री सेल्सियस तापक्रम बृद्धिलाई सीमित गर्नको लागि संसार २०२० देखि २०३० को बीच खनिज इन्धन उत्पादन प्रति वर्ष लगभग ६ प्रतिशतले घटाउन आवश्यक छ । (संयुक्त राष्ट्रसंघको उत्पादन अन्तर प्रतिवेदन, २०२०) • नेपालको वातावरण क्षेत्र पेट्रोल र डिजेलमा पूर्णरूपमा निर्भर छ । वातावरण क्षेत्र एवमले ७७९१ कार्बनडाइअक्साइड समान हरितगृह ग्याँस उत्सर्जन गर्दछ । युन कुल हरितगृह ग्याँस उत्सर्जनको ३७% हो । (नेपाल राष्ट्रिय संचार प्रतिवेदन, २०१७) • आर्थिक वर्ष २०१९/२० मा नेपालले १५,००,२७३ किलो लिटर डिजेल र, ८७,३८ अर्ब, ९६९,०२९ मेट्रिक टन, एल.पी ग्याँस र, ३०,७३ अर्ब, ९९२,७७३ किलो लिटर पेट्रोल लागत रु. २८,३७ अर्ब र कोइला लागत रु. १९,२६ अर्ब बराबरको अभावत गरेको छ । (नेपाल विदेश व्यापार साङ्ख्यिकी २०१९/२०) • विरव्यापी रूपमा खनिज इन्धनको उत्सर्जन र उपयोग कम गर्नको लागि खनिज इन्धन अप्रसार संधि अभियान सेप्टेम्बर २०२० मा औपचारिक रूपमा शुरु भएको हो । • नेपालमा खनिज इन्धनको उपयोग घटाउन खनिज इन्धन अप्रसार संधिको समर्थन आवश्यक छ । 	<p>Developing Fuel Economy Label Scheme for the LDVs in Nepal</p> <p>For Clean Energy Nepal</p> <p>By Prof. Amrit Man Nakarmi PhD <i>Lead Consultant</i></p>
<p>Fig: Fact Sheet on Fossil Fuel Non-Proliferation Treaty Campaign</p>	<p>Fig: Fuel Economy Labeling Scheme for LDVs</p>

TOWARDS CARBON NEUTRAL INSTITUTION

Since CEN has its own carbon offset policy, CEN conducted series of activities to mitigate the carbon emitted through air and road transport during the implementation of its program activities this year too.

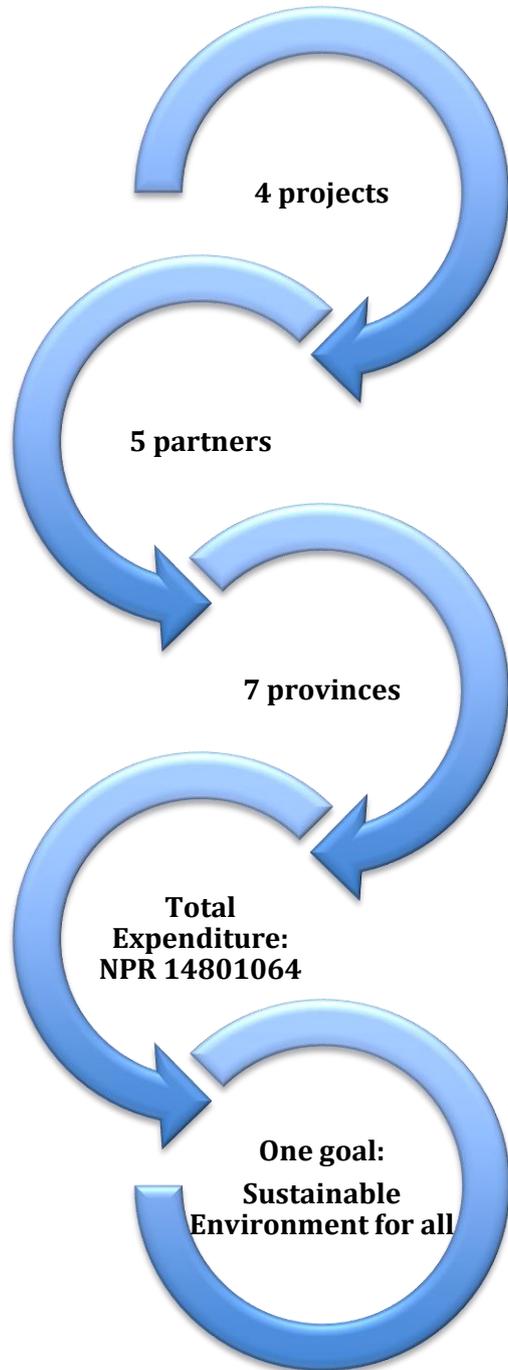


60% of CEN’s Energy demand met by solar energy



Promotion of walking and cycling and public vehicles through different campaign

CEN activities reflection



CEN IN MEDIA

CEN in Media

App on weather situation for farmers developed

CEN pilot project : 'Building Food Security through Agro-met Innovation Advisory Service'

--- The Nepal Weekly | August 2, 2022



Clean Energy Nepal (CEN) has organised a workshop on knowledge sharing on weather forecast service established as a pilot project in Belaha Municipality in Udaypur district. The event with title 'Building Food Security through Agro-met Innovation Advisory Service' was organised in Kathmandu on Friday. Jira Rai, Deputy Mayor, Belaha Municipality, Bishnu Pokharel, Department of Hydrology and Metrology, Misan Dhungana, Ministry of Forest and Environment, President of National Farmers Group Federation Nabara Basnet Prof. Roshan M. Bajracharya were among the participants of the event.

On the occasion, CEN elaborated that the six month long project developed a local weather station in the municipality premises. Likewise developed communication system with Department of Metrology, National Agriculture Research Centre to share weather forecast related data and information. Moreover the project has developed app for information for the local farmers.

The project was supported by Asian Disaster Preparedness Centre, Nepal Government Ministry of Forest and Environment, Department of Meteorology and National Farmers Groups Federation also had supported the project to be successful.

The uniqueness of the project lies on its interactive mobile app that was designed and developed with essential features required for the local farmers. A sophisticated automatic weather station has been established and operationalized in the municipality complex with digital display board. The real time data of the station is accessible to all those using the app. Testing with the farmers who carry a smartphone revealed that the app is quite useful for them in making wise decisions regarding appropriate weather conditions for farming activities such as seeding and harvesting of crops.

The project supported approximately 5,000 local farmers in accessing and applying real time weather information for forming their crop planning calendar, thus, saving time, costs and efforts. The achievement was possible through development, testing and application of app called ProMIS, which is equipped with agronomist related early warning and varieties of weather information including rainfall, temperature, humidity, risks of flood, landslides and forest fire.

Major achievements of the project are categorized into three aspects. The first achievement is

वायु प्रदूषण रोकथामका लागि इलामे युवालाई सचेत गराउदै स्वच्छ ऊर्जा नेपाल

स्वच्छ ऊर्जा नेपालले इलाम जिल्लाको विभिन्न स्थानहरूमा युवाहरूलाई वायु प्रदूषण रोकथामका लागि सचेत गराउने कार्यक्रम अन्तर्गतमा एक कार्यक्रम आयोजना गरेको छ। कार्यक्रममा युवाहरूलाई वायु प्रदूषण रोकथामका लागि आवश्यक हुने विभिन्न कार्यहरूको बारेमा जानकारी गराइएको थियो।



कार्यक्रममा युवाहरूलाई वायु प्रदूषण रोकथामका लागि आवश्यक हुने विभिन्न कार्यहरूको बारेमा जानकारी गराइएको थियो। कार्यक्रममा युवाहरूलाई वायु प्रदूषण रोकथामका लागि आवश्यक हुने विभिन्न कार्यहरूको बारेमा जानकारी गराइएको थियो।

जलवायु विपरितको मारमा किसान

जलवायु विपरितको मारमा किसानहरूको समस्या बढिरहेको छ। किसानहरूले जलवायु परिवर्तनको कारणले आफ्नो जमीनमा बाढ, सूखे, र अन्य प्राकृतिक विपदाहरूको सामना गर्नु परेको छ।



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'कोप २६ का छलफल नेपालका लागि सकारात्मक, आशावादी हुने ठाउँ छ'

संयुक्त राष्ट्रसंघको जलवायु परिवर्तन सम्बन्धी अन्तर्राष्ट्रिय सम्मेलन (COP26)को छलफलमा नेपालको प्रतिनिधिमण्डलको सदस्यहरूले सम्मेलनको सकारात्मक र आशावादी स्थितिमा रहेको बताएका छन्।



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'जलवायुजन्य समस्या समाधान वा प्रभाव न्यूनीकरणमा सबैले दायित्व लिनुपर्छ'

जलवायु परिवर्तनको समस्या समाधान गर्न सबैको दायित्व लिनुपर्छ। जलवायु परिवर्तनको कारणले जलवायुजन्य समस्याहरू बढिरहेका छन्।



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