

ANNUAL REP: 47 RT2020-21



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ABOUT US

WHO WE ARE

Alliance for an Energy Efficient Economy (AEEE) is a leading not-for-profit organisation in India that creates awareness about Energy Efficiency (EE) as a resource. We promote data-driven and evidence-based EE policies and research as an energy efficiency market enabler. With a vision to foster a culture of energy efficiency in India, we work with the government, industry and civil society organisations to accelerate the country's energy transition to a climateresilient, energy-secure future. At AEEE, we undertake cutting-edge, researchbased projects for global bilateral, multilateral foundations and government agencies specialising in Sustainable Cold Chains, Advanced Technologies, Sustainable Building Designs, State and Local Action, Power Utility and eMobility, Energy Data Services and Sustainable Aviation.

AEEE follows a 'Lean-Mean-Green' philosophy to design and construct net-zero energy-water-waste built environments, sustainable transportation and a robust energy data framework for better policymaking and implementation. We take pride in our commitment to aiding India in meeting its commitments to 2030 Nationally Determined Contributions (NDCs) and the United Nations (UN)' Sustainable Development Goals (SDGs).

OUR CORE VALUES

Our values are rooted in principles of human rights and equity, inspired by our vision of a sustainable, energy efficient future.



OUR VISION

To be a leader in responsible use of energy to transition to a climate resilient and energy secure future

OUR MISSION

Foster a culture of energy efficiency in India



Enable energy transition in collaboration and cooperation with the government, industry, and civil society organisations





Accelerate impact as a policy enabler through thought leadership and research to meet India's 2030 Nationally Determined Contribution (NDCS) and United Nations' Sustainable Development Goals (SDGs)



MESSAGE FROM THE CHAIRPERSON

Striving for Excellence through Multi-Sector Collaborations

It is with pleasure that we present to you the 2020-21 Annual Report for Alliance for an Energy Efficient Economy (AEEE) that covers achievements and outcomes of the past year.

The Alliance for an Energy Efficient Economy was established as an industry body to advance energy efficiency in India, over a decade ago. During this period, AEEE has managed to emerge at the forefront of shaping thought leadership across critical energy efficiency initiatives in India ranging from energy efficiency in the built environment, thermal comfort for all, smart mobility initiatives, state actions as also aspects related to progressing industrial energy efficiency.

Even as we continue to grapple with the adverse impacts of the ongoing pandemic, AEEE successfully managed to retain the momentum on its key initiatives though this past year. The report shares several salient aspects of the impact enabled on-ground by the AEEE team across its various focus areas. As a membership driven body, AEEE is uniquely placed in enabling core actions across corporate and public sector institutions.

AEEE's membership spans across large corporates, technology innovators, wide spectrum of educational and research institutions, as also varied energy end-users committed to energy efficiency. By bringing together key energy stakeholders in India, we have influenced effective and impactful policies for a robust energy ecosystem. In the recent years, AEEE has also launched several initiatives in partnership with several leading global donors, bilateral and multilateral agencies, and peer organizations solidifying AEEE as a credible and effective platform in the field of energy efficiency in India.

Combining our expertise and research capabilities to inform our campaigns and advocacy work to help enable country's emission reduction goals remains central to AEEE's philosophy. India has set for itself a target for reduction of emissions by 33-35% by 2030, below 2005 levels. In keeping with our mission of 'transitioning to a resilient and energy secure future', AEEE remains committed to playing a stellar role in India's transition to achieving these NDC targets.

In closing, I wish to record my deepest appreciation for all our partners, the secretariat team and most importantly, our membership at large for contributing to the progress and mission of AEEE. I am confident that this synergistic collaboration would continue to blossom and enable India's transition to clean energy.

Upendra Bhatt Chairperson



MESSAGE FROM PRESIDENT AND EXECUTIVE DIRECTOR

Decade of action to fulfil 2030 promises

COVID-19 has impacted us all in unforeseeable ways. Acknowledging the physical, emotional, and mental challenges many of us are facing, I would like to thank my colleagues who have weathered this challenging time gracefully. I would also like to express my gratitude to our members, partners, funders, and supporters, for their contribution, guidance, and constant support towards the vision and mission of Alliance for an Energy Efficient Economy.

Revisiting the initial stages of the pandemic in India, we acted proactively and took necessary preventive measures to ensure our employees' safety. We introduced a work-from-home policy and accelerated our migration to Google Cloud. I am happy to report that not only did we adapt to this transition smoothly, but we were also able to innovate and strengthen our outreach efforts.

Through the year, AEEE, in collaboration with Cool Coalition, Kigali Cooling Efficiency Program (K-CEP), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and the National Cooling Action Plan (NCAP) Working Group, set out to developing a global NCAP development methodology to help national governments conduct holistic assessment of their countries' current and projected cooling demand and develop tailored NCAPs.

Additionally, we formed the India Cooling Coalition (ICC), an independent and robust entity to facilitate the India Cooling Action Plan (ICAP) through knowledge exchange, engagement, and collaboration. In continuation to ramping up the implementation of ICAP, we also initiated a multi-year project with GIZ on district cooling implementation in India to reduce cooling-related greenhouse gas emissions in the Indian building sector. Lastly, in the spirit of ICAP implementation, we concluded a study on cold chain energy efficiency in India, collaborating with The World Bank, to enhance energy efficiency in India's packhouses. The study recommends a multi-stakeholder approach to build on the efforts of ongoing initiatives by the Ministry of Agriculture and Farmers' Welfare (MoA&FW), Ministry of Food Processing Industries (MoFPI), and Ministry of Commerce and Industry (MoCI).

Additionally, we also strengthened our leadership team with two director-level hires and increased our team strength when hiring patterns showed a downward trend across the industry.

As for the coming year, we are thrilled and gearing up for some exciting projects, including the launch of Phase II of the Green Vehicle Rating (GVR), State Energy Efficiency Index 2020, and Solar Decathlon India, among others. I look forward to working and strengthening relationships with our existing members and forging new partnerships in the year ahead, in the spirit of the triple-sector leadership that has enabled AEEE to make a mark in India's energy outlook over the years. It is even more crucial, especially in the Decade of Action, to encourage and call on people to make Global Goals their own to deliver our 2030 promises. This is our time to eliminate our carbon legacy, and we shall do our best!

Satish Kumar President and Executive Director



MESSAGE FROM TREASURER

Building with Resilience, One Day at a Time

Doing an annual report for 2020-21 during the COVID-19 crisis has surprisingly been enlightening. It has helped us take solace from the past and equipped us with a unique lens to evaluate our work.

Emerging out of dynamic challenges that the pandemic presented before us, 2020-21 has been a year of delivery at AEEE. It helped us realise our potential, enabling resilient operations through the year.

For this reason, on behalf of the entire AEEE family, I would like to express my sincere gratitude to our partners, and members for continuing to place their trust in us; it has enabled us to strive for and perform better. I would also like to highlight the contribution of AEEE employees through these trying times and thank them for their unwavering commitment, which has immensely helped AEEE advance in their journey towards an energy secure future in India.

When the pandemic hit India in 2020, our immediate priority at AEEE was the health and safety of our colleagues, that led us to transition our entire strength to remote working in a short span of time; our new ways of working involved incorporation of new technologies. We took pivotal steps to protect jobs and the long-term stability of our organisation.

Today, as we respond to and recover from the crisis, we deeply realise the importance of investing in our people.

Over the year at AEEE, we were able to sustain operations and balance performance across our businesses. While our pipeline of work has remained strong, we will continue to reel through the impact of the pandemic even through FY21, which is why we need your support and trust to keep us going.

I thank our members, partners, staff, and other stakeholders for sticking by our side through thick and thin. I hope we takeaway new energy from here and deliver the best for tomorrow. Hope you enjoy this read; do your share your feedback with us.

> Venkat Garimella Treasurer

COMBATING COVID-19 WITH RESILIENCE

The COVID-19 crisis brought about a massive shift in the way we have worked for decades. To mitigate the spread of the virus, organisations across the world had to adapt to digital, with teleconferences and webinars becoming the new norm.

Acknowledging this transition, our journey has been eventful since the past year. We introduced a robust work from home policy to ensure safety and wellbeing of our employees and rolled out guidelines for work operations. Our efforts to stay afloat during these trying times were built on the foundation of 'FAITH'- our employee behavioural framework, which served as a guiding roadmap for our staff.

FLEXIBILITY

TO CHANGE AS SITUATION UNFOLDS

Α

AWARENESS & ALERTNESS

TO MAINTAIN CONSTANT VIGIL

INSPIRE

EVERYONE IN THE COMMUNITY WITH OUR EXEMPLARY BEHAVIOUR

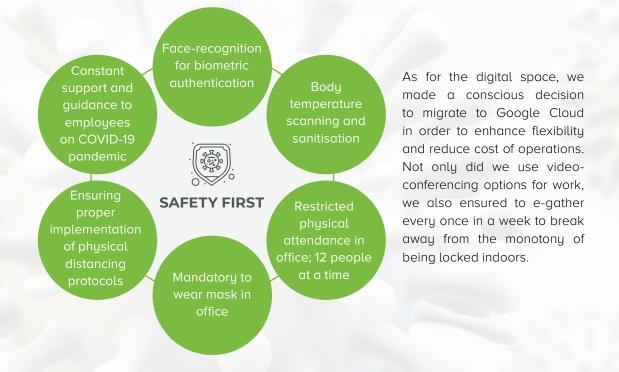
THANKFUL

FOR WHAT WE HAVE & TO THOSE WHO FIGHT FOR US

HEALTH

IS ABOVE EVERYTHING ELSE – FOR YOU & EVERYONE AROUND YOU

We went all out with our efforts to be one step ahead of the pandemic, which is why we even took necessary preventive measures around and inside the office premises. Our efforts included:





As of today, we try to operate out-of-office at least twice a week, but do not encourage those to visit with any symptoms of cough and cold. Our work from home guidelines continue to apply as before and are monitored and reviewed on a monthly basis as per the current COVID-19 situation. A big thank you and congratulations to all our employees, especially the support staff, who have walked an extra mile to make this transition easy and smooth.

We are certain to come out of this difficult stronger and soon!

GENERATING IMPACT

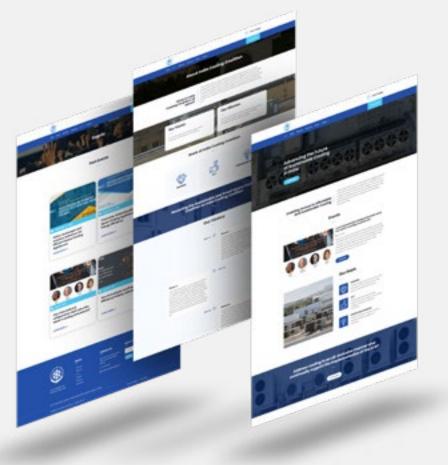
2020-21 has been a challenging yet eventful year. While the COVID-19 pandemic crippled us all with its emotional, mental, and physical implications, at AEEE, we still managed to sail through these trying times.

Here's a snapshot of what we did in the past year:

1. India Cooling Coalition -Strengthening Implementation of the India Cooling Action Plan (ICAP)



AEEE worked towards positioning the India Cooling Coalition (ICC) as an independent and robust entity by launching their new website and a new brand identity, i.e., logo. We worked towards defining coalition goals and objectives through its charter and governance framework, while also developing an active community of knowledge exchange, engagement, and collaboration for facilitating implementation of the India Cooling Action Plan (ICAP).



2. Youth come forward to combat the climate crisis with Solar Decathlon India



We kickstarted the Solar Decathlon India competition for undergraduate and postgraduate student teams from Indian institutions to innovate and combat climate change by designing net-zero-energy, net-zero-water, net-zero-waste and climate resilient buildings. Student teams prepared affordable, industry-ready solutions for real projects with the help of online education and mentoring provided during the year.

In its inaugural year, the competition brought together students, academia, industry experts, and government agencies to work on some cutting-edge innovations, among others.



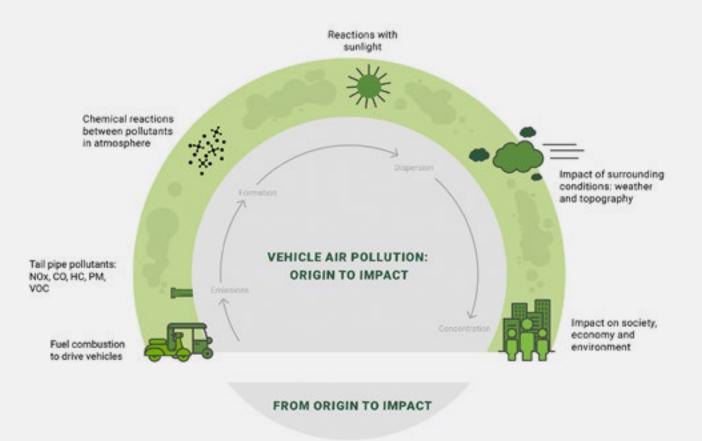


3. Leading the race towards a zero-emissions future



We launched Phase I of Green Vehicle Rating (GVR) to reshape consumer knowledge on the environmental performance of vehicles. This was done by identifying high to low performing vehicle models, in two and three-wheeler categories, in terms of the negative impacts of greenhouse gases and criteria pollutants released from tail pipes of top selling models. Along with a comparative analysis of models, the GVR also revealed external costs of energy-related pollution from vehicle exhausts - both GHGs and air pollutants. In 2020-21, GVR evaluated tail pipe emissions of twenty 2-wheeler models, and two 3-wheeler models. This pool included products from Bajaj, Hero Motors, TVS, Honda, Suzuki, and Eicher.

Green Vehicle Rating (GVR) for 2 and 3-wheelers envisions to create evidence-based awareness in consumers and shift their demand towards greener variants that rely on low emissions technology and high fuel economy. GVR allows consumers to identify the cleanest and most economically sensible vehicle models from an available pool, gives consumers web-based access to easy to understand information – in monetary terms – to inform their purchase decisions, and see the costs and benefits of owning greener vehicles.



4. Exploring climate-friendly residential cooling solutions

Under the Mission Innovation project of the Government of India, the Department of Science and Technology has been providing support to Alliance for an Energy-Efficient Economy (AEEE) to comprehensively support the Global Cooling Prize outreach activities through the prize period of two years (2018-2020).

The main objective of this project is to start a cooling revolution through the Global Cooling Prize. The purpose is to spur the development of a radically more energy-efficient cooling technology. Through this competition, we are aiming to identify innovative cooling technologies that could reduce the climate impact of Residential Air Conditioning (RAC) at least by 5X times.

Over the course of two years, innovators have had an opportunity to develop, test, and demonstrate their transformative cooling solutions to the world. During the program, AEEE has led India-specific partner engagement, outreach and communications, participant recruitment and engagement, and have organized and managed India-specific events for the Global Cooling Prize.

During the competition, over 2,100 registrations from 95 countries were received for the contest, and 445 teams submitted their preliminary ideas. Out of them, 139 teams from 31 countries followed through with detailed technical proposals, and eight teams made it to the contest's final round.

Following the announcement of two Grand Winners during the award ceremony on April 29, 2021, we have reached the Global Cooling Prize conclusion. What many people thought was an impossible task two and a half years ago - developing a cooling solution with 5X lower climate impact - is now a reality and here today.

The two-year-long competition concluded on April 29 with the announcement of two Grand Winners during the award ceremony.

Gree Electric Appliances, Inc. of Zhuhai with partner Tsinghua University; and Daikin with partner Nikken Sekkei Ltd. emerged as the two winners among eight Finalists after shattering the perceived ceiling of performance. These companies have produced prototypes that have five times (5X) less climate impact than standard air conditioning units available in the market today. When scaled, such technologies can prevent 132 GT of CO2 -equivalent emissions cumulatively between now and 2050 and mitigate over 0.5°C of global warming by the end of the century.

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5. Mapping energy consumption for a cleaner tomorrow

Anil Kumar Jain, Secretary of Coal Ministry, Government of India, inaugurated AEEE's Dynamic Energy and Environmental Quality Data Management Dashboard, on 24 March 2021. Being the first-ever real time energy dashboard in India, it maps electricity consumption and air quality patterns of the AEEE office, helping us understand our energy demand thoroughly. This is a critical move to inducing behavioural change for a cleaner tomorrow.

AEEE's energy dashboard stems from our awareness of what we want to measure and why. Public disclosure of our dashboard demonstrates the possibility of quick, data-driven decisions with the right approach, especially for energy efficiency, where processes like energy audits are often considered tedious and time consuming.



AEEE president Satish Kumar welcomes Anil Kumar Jain for the launch of AEEE's energy dashboard



PARTNERSHIPS AND MOU



AEEE has partnered with United for Efficiency (U4E) for progressing the global agenda to transition towards efficient appliances to unlock the very significant economic, social and environmental benefits with affordable, higher performance products and modern energy systems.



AEEE became a core member of ISHRAE's Technical Group - F101: Evaporative Cooling system and is supporting the development of the 'Standard for Construction, Performance, and Testing of Ducted & Non-Ducted Direct evaporative cooling units'. AEEE has contributed to the finalization of scope (AEEE's input: inclusion of MEPS and the construction material) and the standard title.



AEEE signed an MoU with Eurovent Certita Certification (ECC) to develop Minimum Energy Performance Standards (MEPS) of evaporative air coolers and knowledge sharing & technical assistance.



AEEE signed an MoU with Climate Smart City Alliance Framework (CSCAF) to facilitate Eco Niwas Samhita (ENS) implementation across India's residential sector and enhance capacity building & knowledge sharing.



AEEE signed an MoU with Energy Efficiency Services Limited (EESL), which focuses on diagnostic studies and developing a policy roadmap for cold storage retrofit.



Signed an MoU with Central Coalfields Limited (CCL), that seeks to identify opportunities for enhancing energy efficiency in CCL facilities. The MoU focuses on providing assistance to CCL for developing an overall energy efficiency roadmap for buildings, mining operations and heavy earth-moving machinery.

GOVERNMENT AND OTHER ENGAGEMENT

AEEE has been part of government committees, working groups, and consultations over the last few years. In our endeavour to expand outreach and engagement, we have, during 2020-21, also been pro-active in submitting comments on government policies, reports, and draft regulations and in pitching for peer reviews.

1. BUILDINGS AND COMMUNITIES

Review of government policies, reports, and regulations

- Submitted comments on Draft EIA Notification 2020
- Submitted comments on Draft Policy Framework for Developing and Promoting Decentralized Renewable Energy (DRE) Livelihood Applications in Rural Areas
- Submitted comments on Draft Data Centre Policy 2020
- Participation in government committees, working groups, and consultations
 - Indian Society of Heating, Refrigerating and Air Conditioning Engineers' (ISHRAE) technical group 'F101: Evaporative Cooling system', to develop standards on construction, performance, and testing of ducted and non-ducted direct evaporative cooling units
 - United for Efficiency's (U4E) Commercial Refrigeration Model Regulation Guidelines Development initiative to develop model regulation guidelines for commercial refrigeration systems
 - UNEP Cool Coalition's working group on National Cooling Action Plan (NCAP) to develop a global NCAP development methodology that can help national governments conduct a holistic assessment of their countries' cooling current and projected cooling demand
 - India Cooling Action Plan's (ICAP) [an initiative led by Ministry of Environment, Forest and Climate Change's (MoEF&CC)] thematic working group on cold chain to operationalise the recommendations of the ICAP in the cold chain sector. AEEE is leading this working group.
 - India Cooling Action Plan's (ICAP) [an initiative led by Ministry of Environment, Forest and Climate Change's (MoEF&CC)] thematic working group on space cooling to operationalise the recommendations of the ICAP in the space cooling sector. AEEE is leading this working group.
 - Climate Smart Cities Assessment Framework's [an initiative led by Ministry of Housing and Urban Affairs (MoHUA)] working group on energy and buildings, to drive implementation of energy efficiency in residential buildings in 100 Smart Cities under the Smart City Mission

2. POWER UTILITY AND ELECTRIC MOBILITY

Review of government policies, reports, and regulations

- Submitted comments on IEA-BEE Report on 'Energy Efficiency for Economic Recovery: A Discussion Paper'
- Submitted comments on Proposed Amendments to Electricity Act 2003
- Submitted comments and Suggestions on Draft Power Market Regulations 2020
- Submitted comments on Draft Rights of Consumers Electricity Rules
 2020
- Submitted comments on Specific Requirements for Electric Power Train of Vehicles
- Submitted a note on Mumbai Power Outage 2020
- A special review on Dissecting India's Electricity Tariff Landscape for EVs
- Submitted comments on the Central Electricity Authority (CEA) Portal

Participation in government committees, working groups, and consultations

• Dept. of Science & Technology (DST) and Principal Scientific Adviser's working group on the development of standards for Light Electric Vehicles



3. INDUSTRIAL ENERGY EFFICIENCY

Review of government policies, reports, and regulations

- Submitted comments on IEA-BEE Report on 'Energy Efficiency for Economic Recovery: A Discussion Paper'
- Submitted comments on the Central Electricity Authority (CEA) Portal
- Submitted comments on Proposed Amendments to Electricity Act 2003

 Participation in government committees, working groups, and consultations

• Working Technical Group's [WTG, an initiative led by The Global Environment Facility (GEF) and UNIDO] MSME-EESL Project for promoting market transformation for energy efficiency in MSMEs

Peer reviews

- Peer review of CEEW- India Residential Energy Survey (IRES)
- Provided inputs to International Energy Agency's (IEA) 'Energy Efficiency Investment & Finance' survey
- Provided inputs to Asia-Pacific ESCO Industry Alliance's (APEIA) ESCO market survey



4. ENERGY DATA SERVICES AND STATE AND LOCAL ACTION

Review of government policies, reports, and regulations

- Submitted comments on the Central Electricity Authority (CEA) Portal
- Submitted comments on Non-Personal Data Governance Framework
- Submitted comments on Ministry of New and Renewable Energy's (MNRE) draft policy on Distributed Renewable Energy (DRE) for Livelihood Applications
- Submitted comments on Draft Electricity Rights of Consumers Rules
 2020
- Participation in government committees, working groups, and consultations
 - Invited to attend one meeting of the BIS LITD10 committee in "listen-only" mode

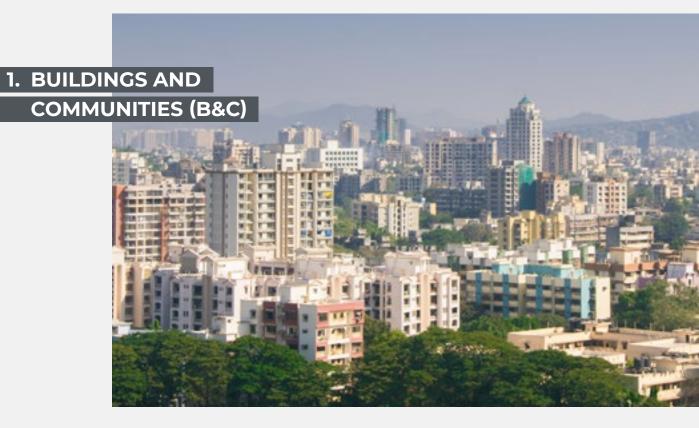
Peer reviews

Review of International Energy Agency's (IEA) India Energy Outlook 2021



RESEARCH LANDSCAPE

INSIGHTS OF WORK DONE BY AEEE PROGRAM VERTICALS



ADVANCING ENERGY EFFICIENCY, EQUITY AND VISIBILITY OF ENERGY IN BUILDINGS AND COMMUNITIES

To create social value and targeted impact in the specific areas of thermal comfort for all, energy access and food security by undertaking cutting-edge research and analysis, policy advocacy and implementation, market transformation, and creating tools and other knowledge products.

INITIATIVES AND ACHIEVEMENTS 2020-21

SHEETAL program to facilitate the roll out of India's sustainable cooling agenda: Supported by CIFF, The Alliance for Sustainable Habitat, Energy Efficiency and Thermal Comfort (SHEETAL) is a consortium of Civil society organisations led by The Energy and Resource Institute (TERI) with the Alliance for an Energy Efficient Economy (AEEE), and the Council on Energy, Environment and Water (CEEW).

SHEETAL convene different line ministries and international and domestic cooling policy experts to collaborate and synergise actions to accelerate sustainable cooling in India."

- Facilitating Eco-Niwas Samhita implementation in affordable housing: Developed a policy strategy to increase the adoption of ENS in India through a replicable implementation framework and a strategically designed toolkit.
- Mapping of existing residential sector energy efficiency policies and guidelines in Uttarakhand: Research work to support MoEFCC's National Mission on Himalayan Studies (NMHS) which aims at supporting climate-responsive and low-carbon development in the state of Uttarakhand by addressing the critical urban issue in its existing residential sector.
- Global NCAP development methodology: AEEE, under the aegis of Cool Coalition, Kigali Cooling Efficiency Program (K-CEP), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and supported by the National Cooling Action Plan (NCAP) Working Group, is developing a global NCAP development methodology that can help national governments conduct a holistic assessment of their countries current and projected cooling demand and develop NCAPs.

It is a first-of-its-kind guide map that can be readily adapted to fit a country's specific context and priorities.

- AEEE (Secretariat) worked towards defining the Coalitions goals and objectives through its Charter & Governance framework, positioned India Cooling Coalition as an independent and robust entity (new logo and website), and worked towards developing an active community of knowledge exchange, engagement, and collaboration for facilitating the implementation of ICAP (webinar series).
- Multi-year project with GIZ on District Cooling implementation in India: The project aims to support the Bureau of Energy Efficiency (BEE) and Ministry of Environment Forest and Climate Change (MoEF&CC) in implementing the India Cooling Action Plan (ICAP) regarding energy-efficient District Cooling Systems (DCS) and envisions on developing enabling conditions for faster implementation of DCS in India. The project intends to reduce cooling-related greenhouse gas emissions in the Indian building sector (compared to the business as usual scenario).
- Completed a first of its kind World Bank assignment on Cold Chain energy efficiency in India. Analysis of energy efficiency opportunities in the packhouse segment was carried out, and policy and regulatory recommendations were submitted to the Bureau of Energy Efficiency (BEE) to enhance India's pack-houses' energy efficiency.

With the ongoing global sweep in the way we all approach energy, there is an urgent need to address different spheres of the way we live in today's world. The three critical factors, namely - housing, food, and health, must be looked at in amalgamation. While efforts to support the transition to a better tomorrow are underway through various policies and reforms, we cannot repudiate the importance of industry partners to introduce energy-efficient and climate-friendly interventions in the current building construction and cold chain practices across India.



Tarun Garg Program Lead, Buildings and Communities (B&C)



SUSTAINABLE TRANSITION OF POWER SECTOR AND MOBILITY THROUGH ENERGY EFFICIENCY AND DEMAND MANAGEMENT

In today's carbon-constrained world, electricity and mobility sectors are on the cusp of transformation. AEEE's electric mobility research focuses on nudging electric vehicle adoption, supporting electrification of fleets and managing the vehicle to grid integration. AEEE's power utility strategy focuses on electricity distribution and aims to unlock demand flexibility to address the challenges of the Indian power sector. The team brings in a unique value proposition by undertaking in-depth research and stakeholder engagement to bridge knowledge-gaps, and by facilitating policy and regulatory reforms.

INITIATIVES AND ACHIEVEMENTS 2020-21

- The PUEM team has continued to track the developments in the e-mobility space and strengthened the research initiatives to accelerate the adoption of EVs in India through knowledge products to address the barriers. The team has mapped the existing best practices associated with charging and vehicle to grid integration. To support decision making the team has developed multi-criteria decision-making tools, and roadmaps for the future mobility ecosystem in India. Our expertise within the EV charging space is iterated in the four reports that we published in FY 20-21 viz.
 - Charging India's Four-Wheeler Transport: This study aims to facilitate the planning and establishment of public e-4W charging infrastructure in Indian cities.



 Charging India's Two and Three-Wheeler Transport: This guide for planning charging infrastructure for 2-and 3-wheeler fleets in India sheds light on the kind of infrastructure required for commercial light electric vehicles.



 EV-A new entrant to India's Electricity Consumer Basket: The study focuses on the implications of EV charging on DISCOMS. It highlights the need to factor in future EV charging in its (DISCOM) resource and investment planning.



4. Vehicle-Grid Integration (VGI): A new frontier for electric mobility in India: This study aims to present the evolving concept of Vehicle-Grid Integration and its different elements and analyse the feasibility of its implementation in the Indian context.



As India strives towards achieving its decarbonisation goals in transport and power sectors, there is a vital need to understand the interlinkages between these two carbon intensive sectors. While efforts are underway to support economic recovery from Covid induced lockdown, the role of think tanks is to pave the way to a green transition. The stimulus measures and reforms present a unique window of opportunity for the industry to strategically realign India's development plans with climate and environment objectives.



Chandana Sasidharan Principal Research Associate, Power Utility and Electric Mobility (PU&EM)

3. INDUSTRIAL ENERGY EFFICIENCY (IEE)

ACCELERATING INDUSTRY TRANSITION TO A SUSTAINABLE LOW CARBON ECONOMY

The IEE team focuses on hard to abate cement and steel industry and small and medium enterprises (SMEs) in India, to enable industry transition. The work done is in collaboration with industry partners on mitigation strategies such as enhanced energy efficiency, technological innovation, demand reduction and data-enabled energy management to realise climate goals.

INITIATIVES AND ACHIEVEMENTS 2020-21

Published a report on energy data management for residential and commercial buildings in India. The report provides an in-depth assessment of existing top-down and bottom-up data collection frameworks, existing institutional set-up and identifies key data gaps in estimating key performance indicators for policymaking.



- Published a report on low carbon approaches for decarbonisation of building construction. It identifies and assesses the current status of material demand reduction strategies including alternate low carbon cement, circular economy, and design optimization among others.
- Organised webinars on "Actions towards a billion-dollar ESCO market" and "Decarbonizing building construction in India"

There is an urgent need for increased investment towards low carbon, sustainable and resilient approaches in the Industrial sector to realise climate goals.



Deepak Tewari Principal Research Associate, Industrial Energy Efficiency (IEE)

4. STATE AND LOCAL ACTION (SLA)

ADVOCATING ENERGY EFFICIENCY AS AN INTEGRAL PART OF STATE AND LOCAL DEVELOPMENT POLICY

The State & Local Actions team advocates Energy Efficiency as an integral part of State development policy. We work to strengthen states' institutional capacity to use data to identify & monitor EE interventions using the State EE Index. We support states in EE policy formulation and provide a convening platform for SDAs and Industry.

INITIATIVES AND ACHIEVEMENTS 2020-21

State Energy Efficiency Index (SEEI) 2020 –

SEEI 2020 is the third annual energy efficiency index to assess energy efficiency implementation across all demand sectors – buildings, industry, municipalities, transport, agriculture and DISCOMs – along with cross sector initiatives in India's 36 states and Union Territories.

- SEEI 2020 has 68 qualitative, quantitative, and outcome-based indicators across all sectors, looking at policy & regulation, financing mechanisms, institutional capacity, adoption of EE measures and energy savings. The indicators were finalized in consultation with BEE.
- Prior to starting SEEI 2020, a feedback survey on SEEI 2019 was conducted with the 36 SDAs, of which 22 responded. 72% of SDAs said that the annual index helps them improve data collection on energy efficiency while 77% said that the index helps them track the state's progress in energy efficiency.
- A dedicated portal was developed to institutionalise data collection from the SDAs and streamline the process for energy data management.
- A series of industry round tables was organized with Energy Management Centre, Kerala (SDA), in which 24 companies participated. AEEE plans to conduct similar round tables with other SDAs in 2021.
- 4 regional virtual workshops were conducted to elucidate the SDAs on the requisite steps in the SEEI 2020 exercise and to guide them with relevant data collection from the concerned departments as well as to encourage healthy competition among the states.
- In addition to data submitted by SDAs, AEEE has collected data from CII, EESL, IGBC, GRIHA, GBCI and BEE. The Data review process with BEE is ongoing, in preparation for the launch of SEEI 2020.
- Improving Rural Livelihoods Through EE Cooling & Refrigeration in India

The project, funded by Good Energies Foundation, is centred around the use of energy efficient cooling solutions for off-grid and weak-grid rural communities to:

- Reduce food loss through the uptake of agricultural applications such as pre-cooling, staging cold room, cold storage, etc.
- Provide cold-storage facilities in rural healthcare centres
- Build additional income opportunities for rural productive businesses and manufacturers of cooling solutions.

The project will support Government of India's Sustainable Development Goals (SDG) - Zero hunger through improved food security, Good health and well-being through access to better health and services, Climate change mitigation and Affordable clean energy through addressing climate change.

AEEE provides a platform for stakeholder engagement for SDAs and the industry. The team organises SDA-industry roundtables that facilitate dialogue among industry leaders and SDAs to target energy efficiency programs for consumers and industry in the state. It also provides business opportunities for Original Equipment Manufacturers (OEMs) and companies offering energy-efficient products and services.



Sangeeta Mathew Program Lead, State and Local Action (SLA) & Energy Data Services (EDS)



CREATING VALUE FROM END-USE ENERGY DATA TO EMPOWER POLICYMAKERS, CONSUMERS AND THE ENERGY EFFICIENCY MARKET

Energy Data Services is a cross-cutting team at AEEE. It focuses on closing gaps in end-use energy consumption data, turning such data into useful insights, and creating analytical tools. Its end objective is to support data-driven policymaking, spur markets for energy efficiency products and services, and nudge consumer behaviour.

INITIATIVES AND ACHIEVEMENTS 2020-21

- Towards Climate-smart Hospitals in India: India's first hospital energy survey across 5 climate zones, 18 states, 2400 hospitals
 - AEEE in collaboration with the Centre for Chronic Disease Control (CCDC) is undertaking the first-ever nationwide energy survey in India to characterize the energy use of hospitals.
 - The survey, which comprises 75-100 data points per hospital, will cover public and private hospitals.
 - The baseline energy assessment of a representative sample of Indian hospitals can be leveraged to facilitate the promotion and uptake of cleaner, sustainable energy use through policies and programs.
- Development of a concept note for India Building Energy Consumption Survey Commercial (IBECS-C)
 - The team defined the value streams of granular, operational end-use energy consumption data in the commercial building sector using expert interviews & consultations and existing literature for various beneficiary groups. These groups included the private sector (i.e., enterprises and energy technology companies), policymakers, researchers, and DISCOMs. These use-cases will be utilised as the foundational stepping stone towards institutionalising the IBECS-C to create a national sample statistic of energy end-use data in hotels, hospitals and IT & ITeS buildings to support national energy management.
 - This approach will be enriched using EDS's learnings and experiences from the hospital energy survey being conducted in collaboration with CCDC.
- Development of a comprehensive concept note for India Green Button Alliance
 - Building up from the US' Green Button Alliance, the EDS team probed into the potential of effecting energy efficiency interventions by using a standardised energy end-use data-sharing framework. This concept note will build on how end-use energy data is shared with consumers in other countries and that in India. The different consumption sectors defined are residential, commercial, and industrial sectors.
 - The concept note was socialised in the form of a paper 'Access to Standardised, Transparent, and Granular Electricity Consumption Data: A Novel Engagement Model for the Indian Consumer', which is stated to be published in the proceedings of the India Smart Utility Week 2021
- The EDS team unpacked the data in high-impact reports/publications that AEEE contributed to create engaging data stories and dashboards:
 - India Cooling Action Plan A Guided Graphical Tour
 - State EV Tariff Map
 - Charging Infrastructure Planning Tools for
 - Electric buses
 Electric Four Wheelers (HV)
- Electric Four Wheelers (LV)
- Paper on 'Access to Standardised, Transparent, and Granular Electricity Consumption Data: A Novel Engagement Model for the Indian Consumer' accepted for publication for India Smart Grid Forum (ISUW) 2021

The EDS team is working to institutionalise the India Buildings Energy Consumption Survey – Commercial (IBECS-C) to enable enterprise-level energy use management and GHG emission reductions. Access to periodical and granular energy end-use data will enable large enterprise-level consumers to compare their energy performance with their peers. It will equip them to differentiate their buildings in the real estate market on the basis of their energy footprint. It will also spur a demand for energy technology companies such as energy data analytics (such as IoT, building energy management companies, etc.), equipment manufacturers, facility managers, ESCOs, etc.

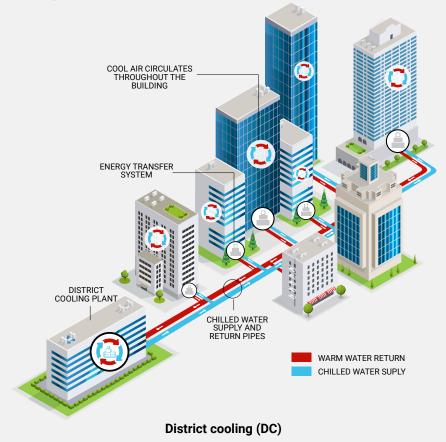


Sangeeta Mathew Program Lead, State and Local Action (SLA) & Energy Data Services (EDS)

SHAPING THE ENERGY EFFICIENCY 2021 AGENDA

1. BUILDINGS AND COMMUNITIES

- The agenda of thermal comfort and energy efficiency in the residential buildings will be further driven through
 - Development of a material & technology compendium accompanied with procurement guidelines.
 - Development of an ENS compliance mechanism (toolkit)
 - Development of a comprehensive set of guidelines focusing on climate responsive and low carbon development for the residential buildings in Uttarakhand.
 - Design context-specific recommendations for generating an effective and culturally appropriate behaviour change communications (BCC) strategy for driving the agenda of Adaptive Thermal Comfort.
- In district cooling project, adequate support will be provided to the state governments for the implementation of DCS in selected demonstration projects. The project will also help bridge the knowledge gap for creating innovative business models to accelerate investment and mainstream DCS. These activities will involve rigorous consultations with national and international experts, financial institutions, state councils, and regional authorities for identifying barriers and prioritizing DCS implementation within the cities.



- The National Cooling Action Plan (NCAP) methodology will be developed for Cambodia and Indonesia.
- AEEE is working with an objective to reduce food waste, enhance farmers' incomes and improve the handling of food and medicinal products through a more energy efficient and climate-friendly cold chain. Our work is leading to improved information on multiple benefits of energy efficiency and sustainability in the cold chain infrastructure and greater alignment between different stakeholders, particularly within the select states and between the centre and the states.
 - Report/White paper on scenario mapping of cold chain in India to recommend a facilitative cross cutting policy regime for cold chain infrastructure
 - Analysis of Cold Storage infrastructure in West Bengal to identify Retrofitting opportunities in the ESCO model
 - Support pilot implementation at select cold storage facilities
 - Support EESL and/or other ESCOs in rolling out large scale cold storage retrofit (modernization) program
 - Model design and O&M guidelines for pack house and other components
 - Report/White paper on scenario mapping of immunization supply cold chain in India













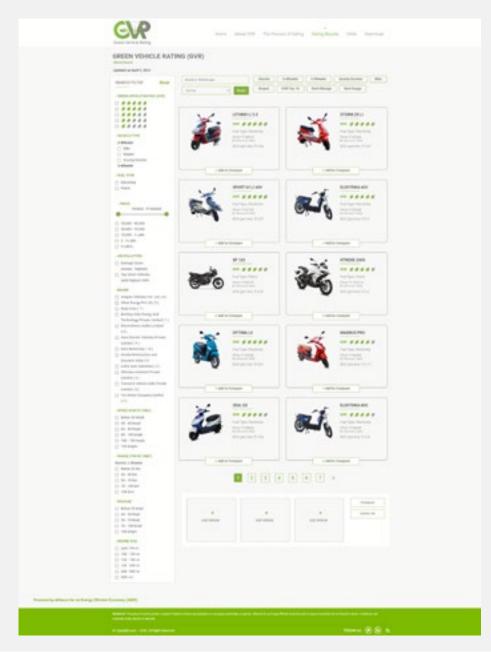


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2. PUBLIC UTILITY AND ELECTRIC MOBILITY

Widening our research canvas, the PUEM team plans to adopt a multi-pronged approach to tackle demand management and promote electric mobility in India in the upcoming year. We are gearing up to deliver impactful outcomes on the following prospects:

Green Vehicle Rating: AEEE has pioneered the Green Vehicle Rating (GVR), the country's only vehicle rating system based on environmental performance. GVR serves as a consumer information tool that identifies high to low performing vehicle models, in two and three-wheeler categories, in terms of the negative impacts of GHG emissions and criteria pollutants released from tailpipes of top-selling models. In this edition of GVR, the scope is widened to include both ICE and EV models of two and three wheelers.



The role of energy efficiency and demand management in India's energy future: AEEE is planning to provide thought leadership to unlock the potential of demand flexibility in India. The PUEM team intends to bring out significance of demand response and demand flexibility in the energy transition of India through dedicated efforts to engage key power sector stakeholders and industry. To promote utilisation of demand as a resource and enable a market for demand aggregation, the team would roll out a set of whitepapers and webinars with the support of industry.

3. INDUSTRIAL ENERGY EFFICIENCY

- We will work with construction sector stakeholders to identify challenges for constructing net-zero buildings (with a focus on embodied emissions) and create an enabling framework for accelerating the uptake of low carbon options.
- We will work with small and medium enterprises to build post-COVID resilience by accelerating the deployment of cleantech solutions through awareness creation, skill enhancement and scale-up through replication.
- We will work with corporates to accelerate industry commitment for energy efficiency in post COVID era to meet NDC commitments.



4. STATE AND LOCAL ACTION

۲ Launch State Energy Efficiency Index (SEEI) 2020

State Energy Efficiency Index 2020

The State Energy Efficiency Index 2020 has been jointly developed by the Bureau of Energy Efficiency (BEE) and Alliance for an Energy Efficient Economy (AEEE) with the following objectives:



Help drive EE policies and programme state and local level



Highlight best practices



a foundation to set state-specific EE targets



Institutionalise data of EE activities by states, especially by SDAs

Track progress in

and India's energy

managing the states'

Complete needs assessment for cooling solutions in agriculture and rural

healthcare and identify 2 districts in 2 states in which to deploy optimal cooling solutions, which will be monitored for a year to assess their impact in improving rural livelihoods, as well as their energy and carbon footprint. This activity will help identify optimal sustainable cooling solutions to scale up.

Solution Work with selected State Development Authorities to identify and support state-specific energy efficiency interventions.

5. ENERGY DATA SERVICES

- Building and leading the Building Efficiency Coalition (BEC) of private sector members (i.e. enterprises and energy technology companies), along with some public sector and knowledge sector members, to collectively lead the charge towards designing and implementing the first iteration of IBECS-C.
- Developing a common information-sharing model for end-use energy data (India Green Button Alliance) by definitely defining its main components – metadata, standard and protocol, testing and compliance, data privacy and security, stakeholders, and regulations.
- Preparing and publishing powerful data visualisations, including linking macro socio-economic data with energy end-use consumption at the national, state and local levels across consumer and fuel types.



ENERGY ENABLERS

AEEE is a convening platform bringing together key energy stakeholders- industry, government, civil society organisations, and professionals, to engage in a constructive dialogue, influencing effective and impactful policies to build a robust ecosystem for effective implementation.

AEEE MEMBERS

At present, AEEE has 40 members, representing diverse segments of the energy efficiency (EE) industry such as technology, equipment and service providers, research and academia, consulting companies, and varied energy end-users committed to energy efficiency. AEEE follows a participatory approach involving members and seeking guidance from its knowledge partners and peer organisations. With a host of benefits and customised services, the AEEE membership offers an exclusive opportunity to lead the growth and transformation of the energy sector, participate in policy dialogues, and enhanced visibility and credibility for all its members.

Premium Members





AEEE LEADERSHIP

The 11th Annual General Meeting, held on 29 August 2019, elected the Executive Council of Alliance for Energy Efficient Economy (AEEE) for the term 2019-2021. The council is chaired by Upendra Bhatt, Managing Director of cKinetics, and brings with it expertise, experience, and knowledge of many seasoned professionals to shape the course of AEEE's work in future.



SECRETARIAT LEADERSHIP

The appointed leadership, along with President Satish Kumar, will lead the industry body to carry out its wide array of objectives for the next two (2) years in support of the country's resource efficiency and low carbon development agenda.

EC Members Elected for 2019-2021

| Name | Position in EC | Designation & Company |
|------------------------|----------------|---|
| Upendra Bhatt | Chairperson | Managing Director, cKinetics Consulting Services Pvt Ltd |
| Mr Prabal Bose | Member | Vice President |
| Mr Venkat Garimella | Treasurer | Vice President – S&A, EE, A2E & CSR International Operations, Schneider Electric |
| Mr Ranganath N Krishna | Member | The Grundfos Ambassador, Grundfos Pumps India |
| Prof Rajan Rawal | Member | Executive Director, CARBSE, CEPT Univ |
| Arjun Premchand Gupta | Member | Founder & CEO, Smart Joules Pvt Ltd |
| Chirag Baijal | Member | Managing Director, HVAC, Carrier Aircon |
| Saurabh Kumar | Member | Managing Director, EESL |
| Unnikrishnan | Member | Managing Director, Saint Gobain |
| Darshi Dhaliwal | Member | CTO, Toro Watt Corp |
| Satish Kumar | Secretary | President & Executive Director, AEEE |
| Shalini Sarin | Invited Member | Director, Elektromobilitat |
| Pramod Deo | Invited Member | Former IAS Officer, CERC and MERC Chairman |
| Sanjiv Aggarwal | Invited Member | Partner, Actis |



AEEE's President and Executive Director works directly with the Board, i.e., the Executive Council (EC). To enable effective governance and coordination, AEEE's operational matters are overseen by a Management Committee, comprising of the Chairperson, Vice-Chairperson, and a Treasurer.

Additionally, to guide the AEEE Secretariat further, the EC is categorised into three sub-committees:

Sub-Committee

| HR and Compensation Committee | F & A Committee | Programs and Projects Committee |
|-----------------------------------|---|------------------------------------|
| Dr Shalini Sarin (Acting Covenor) | Venkat Garimella - Convener | Chirag Baijal- Convener |
| Arjun Gupta | Mr. Sanjiv Bhatia (non-EC participant) | A.R. Unnikrishnan- Co-Convener |
| Venkat Garimella | Upendra Bhatt | Rajan Rawal |
| Upendra Bhatt | Ranganath Krishna – Outgoing Treasurer | Darshi Dhaliwal |
| | | Upendra Bhatt |

Roles & Responsibility of Sub-Committees



FINANCE AND AUDIT COMMITTEE: provides

oversight on budgets, organisational spends, budget approvals for capital expenditure, new projects, and programmes



REMUNERATIONS AND HR POLICY

COMMITTEE: provides oversight on HR policies, conducts senior leadership performance reviews, approves annual increments and/or senior hires



PROGRAMMES AND PROJECTS OVERSIGHT

COMMITTEE: ensures proper functioning and alignment of AEEE programmes with its vision and mission

OUR TEAM

AEEE has on board domain experts and dedicated professionals who are actively engaged in taking AEEE's work to greater heights in alignment with its larger vision and mission. The team at present is as follows:

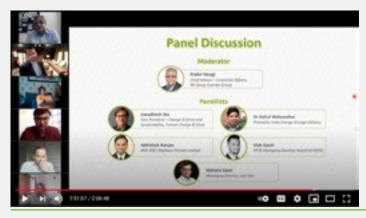
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| 20Sandeep KachhawaPriorian Research Associate21Sangeeta MathewProgram Lead22Sanjay ChaurasiaAssistant Manager- Graphics & DTP Designer23Satish KumarPresident and Executive Director24Shatakshi SumanSenior Research Associate25Shirish BhardwajResearch Associate26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram Lead1Sneha SacharSenior Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 21Sangeeta MathewProgram Lead22Sanjay ChaurasiaAssistant Manager- Graphics & DTP Designer23Satish KumarPresident and Executive Director24Shatakshi SumanSenior Research Associate25Shirish BhardwajResearch Associate26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadAdvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 22Sanjay ChaurasiaAssistant Manager- Graphics & DTP Designer23Satish KumarPresident and Executive Director24Shatakshi SumanSenior Research Associate25Shirish BhardwajResearch Associate26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadHotisor1Sneha SacharSenior Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 23Satish KumarPresident and Executive Director24Shatakshi SumanSenior Research Associate25Shirish BhardwajResearch Associate26Shravani ItketwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadProgram LeadConsultant, Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Atliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | - | - |
| 24Shatakshi SumanSenior Research Associate25Shirish BhardwajResearch Associate26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram Lead Advisor 1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 25Shirish BhardwajResearch Associate26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadHatvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 26Shravani ItkelwarResearch Associate27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadHatei Sachar1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 27Simrat KaurResearch Associate28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadAdvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior AdvisorConsultant, Advisor1Shruti SarafConsultant, Alliances and Communications1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 25 | - | Research Associate |
| 28Srishti SharmaResearch Associate29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadAdvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior Advisor1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 26 | | |
| 29Sumit KumarAssistant Accounts Manager30Tarun GargProgram LeadAdvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | | |
| 30Tarun GargProgram LeadAdvisor1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 28 | Srishti Sharma | Research Associate |
| Advisors1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 29 | Sumit Kumar | Ŭ |
| 1Sneha SacharStrategic Advisor2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 30 | | - |
| 2Bhaskar NatarajanSenior Advisor3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | A | dvisors |
| 3Prasad VaidyaSenior AdvisorConsultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 1 | | Strategic Advisor |
| Consultants1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 2 | Bhaskar Natarajan | Senior Advisor |
| 1Shruti SarafConsultant, Alliances and Communications2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | 3 | Prasad Vaidya | Senior Advisor |
| 2Ishan BhandResearch3Gaurav VakilConsultant, Buildings & Communities | | Cor | nsultants |
| 3 Gaurav Vakil Consultant, Buildings & Communities | 1 | Shruti Saraf | Consultant, Alliances and Communications |
| | 2 | Ishan Bhand | Research |
| 4 Jagadeesh Taluri Consultant, Building and Communities | 3 | Gaurav Vakil | Consultant, Buildings & Communities |
| | 4 | Jagadeesh Taluri | Consultant, Building and Communities |

OUTREACH





Webinar on policy landscape and industry initiatives for efficient space cooling appliances on 11 November 2020. The event was attended by 73 participants. Visible above are Shubhashis Dey (Associate Director, Shakti Sustainable Energy Foundation), Alex Hillbrand (Energy Efficiency and Climate Advocate, Natural Resources Defence Council), Neha Dhingra (CLASP), Aditya Chunekar (Senior Research Associate, Prayas), and Jitendra Bhambure (ISHRAE).



Launch of the report 'Vehicle-Grid Integration – A New Frontier For Electric Mobility In India' on 7 October 2020, followed by a panel discussion on Enabling EV Adoption in India. Visible above are Prabir Neogi, Chief Advisor – Corporate Affairs, RP-Sanjiv Goenka Group, Awadhesh Jha, Vice President – Charge & Drive and Sustainability, Fortum Charge & Drive, Dr Rahul Walawalkar, President, India Energy Storage Alliance, Abhishek Ranjan, AVP, BSES Rajdhani Private Limited, Vish Ganti, VP & Managing Director, AutoGrid INDIA and Nishant Saini, Managing Director, eee-Taxi. The event was attended by 56 participants.

Launch of the report 'A Policy Strategy for Decarbonising the Building Sector: Facilitating Eco Niwas Samhita' on 28 October 2020, followed by a panel discussion on challenges in adopting and implementing Eco Niwas Samhita codes at the Urban Local Body (ULB) level. The event was attended by 99 participants. Visible above are Simrat (Research Analyst at AEEE) and Peter Graham (Executive Director, Global Buildings Performance Network).





Webinar on consumer understanding of cooling appliances energy efficiency on 5 November 2020, organised by India Cooling Coalition, attended by Satish Kumar (Founder and President of AEEE) as a speaker. The event was attended by 97 participants. Visible above are Satish Kumar (President and Executive Director, AEEE), Simrat Kaur (Research Analyst, AEEE), Anna Agarwal (Fellow, Centre for Policy Research), and Jitendra Nalwaya (Vice President, BSES Delhi).

Webinar on 'Actions towards a billion-dollar ESCO market' on 5 November 2020. The event was attended by 82 participants. Visible above are Satish Kumar (President and Executive Director, AEEE), Arijit Sengupta (Director, Bureau of Energy Efficiency), Arjun Gupta (Founder and CEO, Smart Joules), and Milind Chittawar (SEETech Solutions).

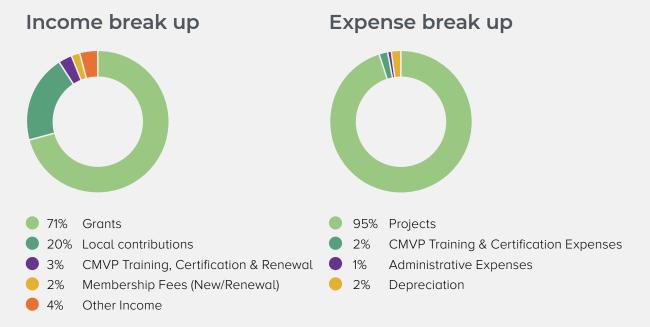


AEEE EVENTS & TRAINING CALENDAR APRIL 2020 TO MARCH 2021

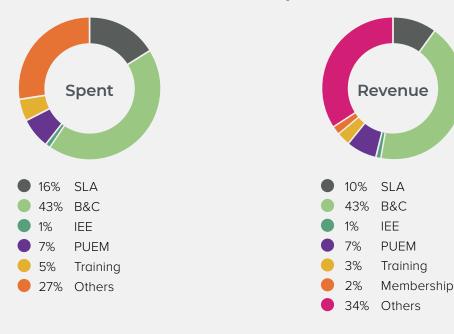
Outreach to Members and Stakeholders through AEEE Events

| Sl.no | Event Type | Theme | Venue | Date | Participants |
|-------|-------------------------------------|---|---------------------------|-----------------------------|--------------|
| 1 | Round Table | India Cooling Coalition | Zoom meeting | May 20, 2020 | 17 |
| 2 | Report Dissemination | e-launch of "Charging India's Four-Wheeler Transport" report | Go-To Webinar platform | May 29, 2020 | 111 |
| 3 | Webinar | Indirect Evaporative Cooling - a safer and energy efficient approach to HVAC | Go-To Webinar platform | June 9, 2020 | 307 |
| 4 | Report Dissemination | e-launch of "EV - A New Entrant to India's Electricity Consumer-Basket" | Go-To Webinar platform | July 31, 2020 | 120 |
| 5 | Round Table 1 | Discussion with AEEE Premium Members Offering Energy-Efficient Products & Services to promote Energy Efficiency in the State of Kerala | Go-To Webinar platform | August 20, 2020 | 16 |
| 6 | Training & Certification program | 19th Round Certified M&V Professional Training & Exam | Zoom meeting | Aug 27-29, 2020 | 19 |
| 7 | Webinar | Implementation Strategies for India Cooling Action Plan | Go-To Webinar platform | Sept. 2, 2020 | 239 |
| 8 | Round Table 2 | Discussion with Appliance manufacturers Offering EE Products & Services to promote EE in the State of Kerala | Go-To Webinar platform | Sept. 3, 2020 | 19 |
| 9 | Report Dissemination | e-Launch of Charging India's Two- and Three-Wheeler Transport | Go-To Webinar platform | Sept. 4, 2020 | 94 |
| 10 | Workshop | State EE Index 2020 SDA Workshop – North Region | BEE MS Teams platform | 15 Sep 2020 | 45+ |
| 11 | Workshop | State EE Index 2020 SDA Workshop – South Region | BEE MS Teams platform | 16 Sep 2020 | 30+ |
| 12 | Workshop | State EE Index 2020 SDA Workshop – East Region | BEE MS Teams platform | 17 Sep 2020 | 30 |
| 13 | Workshop | State EE Index 2020 SDA Workshop – West Region | BEE MS Teams platform | 18 Sep 2020 | 40 |
| 14 | Roundtable 3 | Roundtable Discussion with Companies Offering Energy-Efficient Products & Services to Promote Energy Efficiency in the State of Kerala "Industry Sector" | Go-To Webinar platform | 23rd Sept. 2020 | 20 |
| 15 | Report Dissemination | Vehicle-Grid Integration – A New Frontier for Electric Mobility in India | Go-To Webinar platform | 7th October 2020 | 56 |
| 16 | Webinar | Webinar on Facilitating Eco-Niwas Samhita Implementation in Affordable Housing | Go-To Webinar platform | 28 October 2020 | 99 |
| 17 | Webinar | Webinar: Consumer understanding of cooling appliances energy efficiency | Go-To Webinar platform | 5 November 2020 | 97 |
| 18 | Webinar | Webinar on 'Actions towards a billion-dollar ESCO market' | Go-To Webinar platform | 5 November 2020 | 82 |
| 19 | Webinar | Webinar: Policy landscape and the Industry initiatives for efficient space cooling appliances | Go-To Webinar platform | 11 November 2020 | 73 |
| 20 | Training | Online CMVP training and Exam | Zoom meeting | 10-12th Dec 2020 | 23 |
| 21 | Webinar | On Decarbonising Building Construction in India | Go-to-webinar platform | 17th February 2021 | 112 |
| 22 | Webinar | Exclusive Session: Overview of Biden-Harris Administration's Focus on Climate and Energy Policy | Zoom Meeting | 10th March 2021 | 40 |
| 23 | Roundtable Discussion | Roundtable on Green Vehicle Rating (GVR) India's only vehicle rating system based on the environmental performance of vehicles | Zoom Meeting | 18th and 23rd March 2021 | 10 |

OPERATIONS & FINANCIALS



Thematic revenue break up



Top 5 sources for AEEE's funding in 2020-21



| | | | | ALUANCE FOR | AN UNERGY EFF | ALUANCE FOR AN ENERGY EFFICIENT ECONOMY | | | | | |
|---|----------|--------------|------------------------------------|---------------------------------------|---|--|---------------|--|------------------------------------|-------------|------------------------------------|
| | | | | BALANCES | BALANCE SHEET AS AT 315T MARCH 2021 | T MARCH 2021 | | | | | |
| LIVERUTIES | Note | | As at 31 March 2021 (In Es.) | | As at 31 Morch 2020 (In Rs.) | ASSETS | Note | | As at 31 March 2021 (In Rs.) | | As at 31 March 2020 (In Rs.) |
| Corpus Fund | 1 | | 2,29,55,517 | | 2,29,55,517 | Property, Plant and Equipment Project Related | ŵ | 1,07,84,606 | | 1,07,08,483 | 119 85 550 |
| Capital Grant Reserve | ~ | | 1,07,84,603 | | 1,07,08,483 | Others. | _ | 8,05,816 | 1,15,90,422 | 2,81,075 | 100,011 |
| Current Uabilities and Provisions | | | | 100 00 00 0 | | Investments | - | | \$19'96'15 | | 92,99,416 |
| Exponents Payables and Provisions Duties and Taxes Grant Balances | en et un | 7,02,58,505 | 8,24,92,570 | 24,31,773 24,31,773 4,36,31,101 | 5,62,89,845 | Current Assets Interest Accrued on FDR | | | 76,470 | | 93,270 |
| Member/No Kees Received in advance Project Advance from Gi2 | | | 13,58,000 | | 11,75,002 | Cash & Bank, Balances | 90 | | 9,63,18,726 | | 765,59,59,7 |
| Income & Expenditure Account Operand Italiance | | 1,78,97,38,1 | | 84,48,153 | | Other Current Assets Prepaid Expenses T05 Receivable | 6 | 5,11,994 | | 3,62,545 | |
| radi: Escena of income over Expenditure of Current Year Levic Transferred to Corous Fund | _ | (16,58,237) | 1,10,21,234 | 1,92,31,318 (1,50,00,000) | 1,26,79,471 | Income Received/lie Other Current Assets | 9 1 | 94,26,972 | 1,53,33,631 | 48,00,015 | 88,32,516 |
| | + | | 100 00 00 00 | | TANK THE TRE TANK | Teed | ļ | | 13,30,55,924 | | 10,38,06,318 |
| Total | - | | 15,90,35,924 | | averageore | for Allineas for An Energy Efficient Economy | feeow | | | | |
| As per our report of even date For Singh K V Gepta & CO Chartered Accountants (FRN 000133N) | (| | | | | | | | | | |
| CA Rakesh K Agamual | | CO* CILIC | | Jan / | teh- | fund. | Interior | | | | |
| M. No. 055908 Flace: New Debit Date: 1944 Arg. 2.2.1 |) North | | 10 | Alliance For a | Satish Kumar Secretory an Energy Effici | ant Economy | Cha Execut | Chairperson Executive Council Alliance For an Energy Efficient Economy | Economy | | |

Financial Statements

| COFENDITURE | 45 at 31 March 2621 (in Rt.) | As at 31 March 2020 (in Rs.) | INCOME | AS M 31 March 2021 (in Rs.) | As at 31 March 2020 (In Rs.) |
|--|------------------------------------|------------------------------------|--|-----------------------------------|------------------------------------|
| CRA Project Bolesed Expenditure | | | FCRA Projects Receipts & Grants | 146.95.063 | 151.36.127 |
| MacArthur Foundation | 3,46,95,063 | 3,53,26,527 | NUTLY RECEIVED (WINDOWS IN THIS PARTY INTERPARTY INTE | ATRICE AN | 1 AN 67 251 |
| Good Energies Foundation | 43,20,847 | 1,40,52,751 | Grant Received (Good Energies Foundation) | 14010101016 | ACTORNAL CONTRACTOR |
| Out Core Guart | | 48,19,010 | Guard Received (Dak Core Grant) | | 41,19,020 |
| PULL Martine II | | 4,84,415 | Grant Received (ESCO Market) | 10 | 4,84,415 |
| Carook (Teolise 2 | | 6,01,648 | Grant Received (Space Cooking 2) | | 6,01,643 |
| operative subming a Submarks in Statistics of Supremer Ore | 1.00.78.553 | 45,11,633 | Grant Received (Support in Suliding Capacity of Partner Crg.) | 20 | 1.50,00,000 |
| properties tableton. | 30,88,256 | 67, 20, 865 | Grant Received (Bectric Vehicle) | 30,88,256 | 67,10,885 |
| | 41.61.150 | 1.53.434 | Guart Received (Green Vehicle Radine-10 | 41,61,150 | 1,53,434 |
| Green Vernoe Nacing-II | 20.07 1955 | 22.45.842 | Grant Received (G8/NI) | 20,07,355 | 21,15,842 |
| | 100 00 000 | 1 20 640 | Grant Received (CBI) | 1,60,80,651 | 1,32,640 |
| | 1.12.635 | | Grant Received (New Venture Fund) | 1,12,915 | * |
| Dealer Press of the second sec | 2 255 200 | | Guara Received SSEF- NMHS | 7,25,700 | • |
| CHAN-1922 | AN 30, 745 | | Court Received (Clevete Imperative Foundation - RCEP) | d3,85,745 | |
| Cumpto Imperatore Foundation - Auto- Nace 579A Protect Resistant Direct Evenediture | | | Nan FCRA Direct Income | | |
| | 0 | 40.07.010 | Business Remaining Parandi Ine an Econom (Michael Crossing | | 21.32.246 |
| Project Expenditure-American Council ter an Energy-Efficient Economy | | 010,00,00 | | 730 11 12 | |
| Project Expenditure - Gi2 | 23/20/27 | | Project - ONC | 26.12.479 | 26.50.705 |
| Project Expanditure -GCP-Department of Science & Technology | 26,13,478 | 56,53,296 | Project Grant -GUP Department of SOBNER & Frence Op | 113 11 13 | CAN DO NO. PA |
| Project Expenditure-National Mission on Himalayah Studies | 57,44,511 | 24,70,022 | Project Granty National Million on Illimateyan 2048 43 | TTC'44'/C | to de alte |
| CMMP Training & Certification Expenses | 21, 32, 464 | 17,80,294 | CWVP Training, Certification & Renewal | 099/66/67 | 51,31,000 |
| Project Expanditure- United Nation Environment Programme | 27,18,009 | | Project Granty United Nation Environment Programme | 27,15,000 | |
| Project DosanStrue-Indo German Energy Forum | 33,362 | | Project - Indo German Erengy Forum | 6,14,000 | •2 |
| Brelevi Fusional Ministery of Environment, Forest and Climots Change | 3,13,365 | | Project Grant-Ministry of Chriotrymont, Forest and Climate Change | 8,50,000 | |
| Breidert - Windel Bank County | | 64,02,100 | Project - World Bank Group | | 81,58,435 |
| Factories 2000 | | 6,000 | Sponsorship / Other Receipts - Energise 2023 | 1 | 15.54,004 |
| | | | Memberuhip Fees (New / Rohewal) | 14,67,002 | 14,25,132 |
| Other Overheads | | | Other Income | | |
| Desreciation | 21,89,364 | 21,37,759 | Bank Interest Received | 2,59,940 | 10/07/2 |
| Administrative Expenses | 6,35,782 | 2,79,240 | Interest Received on FDR | 6,00,400 | 427.255 |
| Loss on Sale/Disposal of Fixed Atents | × | 17,01,123 | Interest on IT Refund | 00.002 | 00,000 |
| | | | Misc. Income | | 165'0 |
| Excess of income over Expenditure | (16,58,237) | 1,92,51,519 | Transfer from Capital Grant Reserve | 20,20,20,296 | 51,66,099 |
| | | | Name of Contract o | 4 74 76 26 415 | 11 07 52 875 |

Satish Kumar Chairperson Secretary Efficient EconomAlliance For an Energy Efficient Economy

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Place: New DefN

As per our report of even date for Steph K V Gupta & Co Onariened Accountants (pion 000133M)

CA Rakesh K Aga (Partner) M. No. 003908

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(Creiman)

(Secretary)

For Alliance for An Energy Efficient Economy

Annual Report 2020-21

Financial Statements

Page No - 46

| STADDas | As at 31 March 2021 (In As) | AS 25 31 March 2020 (1a Ru.) | PACHERINES | As M B1 March 3021 (m fis.) | As an Bit Mawch 2020 Bin Fis.) |
|--|--|------------------------------------|---|---|--------------------------------------|
| Operating Cash & Sash References | 7,42,98,538 | 7,16,16,691 | | | |
| 100A Prejecte Receipter | | | PCRA Project Related Parments | | |
| Grave Received (MacArthur Foundation) | 3,57,27,500 | 3,57,61,250 | Mechtebur Feundation | 3,59,94,738 | 2,83,91,598 |
| Grant Received (Scool Freezies Foundarian) | 1,70,25,000 | | Gred Frengles Foundation | 011/05/04 | 1,43,94,795 |
| Out Core Grant | | | Oak Core Grand | • | 517°57'87 |
| (SCO Market 1 | | | ESCO Market II | | 6,27,975 |
| (raise Coultre 2 | | | Space Cooling 2 | + | 272,12,4 |
| Grave Beneved Russourt in Building Capacity of Partner Ort.) | | 1,50,60,000 | Support in Building Capacity of Partner Org. | 1,00,15,718 | 113,04,04 |
| | | 52,56,221 | Decivic Vehicle | 689/89/00 | 667,13,299 |
| denie derektent konsten version in derekten fil | 277,768 | 62, 16,602 | Green Wehicle Rating- II | 900'16'05 | 1,41,582 |
| discussion from the second secon | 1,79,018 | \$1,37,281 | 0.8PW | 363/19/12 | 21,07,797 |
| Grante Received 42 FTL | 100.09 40.0 | | CIFF | 147,11,152 | 2,57,357 |
| Grant Baceheed Plane Venture Fund | 1.01.23,600 | | New Vertoure Fund | CTN/C | |
| Grave Bernhard BADHO | 14.37,290 | 14,37,290 | SHMM | 2,25,700 | |
| Grant Received (Cimate Imperative Foundation - COP) | 43,85,745 | | Climate Imperative Foundation - KCEP | 49,85,745 | Ċ |
| attest fording. Plasman Resemblies | | | MON FORA Project Related Direct Payments | | |
| ALTER T | 200,005 | 27.16.271 | ACIE | , | 16,39,256 |
| World Barb Growt | 25.83.550 | 55,74,886 | veronal Bank Group | 842,94 | 63,87,822 |
| Therease and Science & Technology | 20.00,000 | 2,31,166 | Department of Science & Technology | 33,96,846 | 53,38,104 |
| Nutroval Mexicon on Herustratin Statist | 0 | 77,81,016 | National Mission on Himalayan Stadies | 45,00,003 | 見たち、町 |
| CMTP Training, Certification & Renewal Fees | 29,32,605 | 81,97,833 | CMVP Training & Certification Expenses | 158736722 | 200,16,11 |
| Scorrochio / Other Receipts - Energies 2000 | 6,00,000 | \$1,18,665 | Administrative Expenses | 262'25'6 | 1,62,982 |
| Membership fees (New / Renewal) Received | 10.81,750 | 6,56,000 | Energie 2020 | | 6000's |
| Project -Ministery of Ewiczyment, Forest and Climate Change | 8.53,000 | C. Marcala | Ministery of Ervior unsert, Forest and Gimste Charge | 14562 | |
| Project -Inde German Energy Forum | 6,14,000 | | Project -Indio German Energy Forem | 13,162 | |
| Other Receipts | A CONTRACTOR OF A CONTRACTOR O | 16.24,360 | Project - Get | 400 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | |
| Project - United Nation Enviorment Programme | 140'89'61 | | United Research University of the Participation of | and all all an | |
| Other Recreti | A 12 100 | 140124 | Final Accels succharded during the sear | 8.75,407 | 1,11,95,564 |
| Incerest Received on FDR | DULL AND | 200 000 | Unwill and Grave Balancied to Orabit Faundation | - | 1.35,056 |
| Interest on IT returns | Cadiba | 110 | | | 16,50,000 |
| Milk, Income | 16 AB C47 | 10.41 600 | | | 25,000 |
| Barris, Incernent Mecement | ALC'UNICE. | COLUMN 1 | TTN, demonstrated | 21,25,011 | 14/63,712 |
| Membership Feet Received | | CONTRACT. | Investment in Bank POR's | 002,00,0 | 841'00'08 |
| Freed Autority cold during the search | 0 | 1 501000 | TTC on Back #201 testerest income/ Other Income | 100,886 | 4,11,425 |
| Conjugate Hanning Procession County Entry Market | 6111616 | 21.56.101 | CCT Paid | | 17,780 |
| tudo tenentutre etta ampena en en pres una | 44,44,000 | | Project Advance to Vendors | 14,56,120 | • |
| the fund of Office Security Deposit | | 3,50,000 | | | |
| Income Tax Refund received during the year | 2,90,715 | 7,82,064 | Charles Carls & Read References | 943.16.726 | 2/2.91,518 |
| | | | Province and the second s | | |
| | | | | Add of the second | 017 N. 15 1.1 |

Financial Statements

For Allance for An Energy Efficient Economy

Satish Kumar Secretary Alliance For an Energy Efficient Economy Alliance For an Energy Efficient Economy

1.202 1

(Partner) M. No. (85908

CA Rakesh K A

Place: New Del

and.

Chairperson

10

Secretary

As per our report of even date For Singh K V Gapta & Co Charteved Accountants (FBN 0001181M)

Annual Report 2020-21



Contact Us

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