

Energy Matters

July - September 2023

A newsletter from Shakti Sustainable Energy Foundation delivering articles and writeups on relevant issues, its various engagements towards enabling climate change solutions and development positive outcomes in collaboration with policy makers, civil society, academia, and industry.

Philanthropic Partnerships to Scale Green Hydrogen & Decarbonise Industries

The recent G20 meeting in Delhi, India, called for building a sustainable and equitable global hydrogen ecosystem. Japan, was the first country to put hydrogen on the G20 agenda during its presidency in 2019.

G20 reinforced the confidence being placed on Green Hydrogen/Green Ammonia as viable alternatives to fossil energy sources to aid global efforts in achieving climate goals. A Green Hydrogen Innovation Centre has been created under the International Solar Alliance to pivot the country towards Green Hydrogen inspired by a quest for self-Reliance and concern for environment.

Replacing the use of coal and other fossil fuel sources with Green Hydrogen can reduce the Greenhouse Gas emissions from such sectors. With Green Hydrogen supplies expected to become more

accessible and competitively priced in the coming years, adopting Green Hydrogen as fuel and/or feedstock can make industries more sustainable and competitive.

Large corporates have already taken steps to invest in Green Hydrogen. Along with Government and Corporate action, there

is a need to work on enabling the wider Green Hydrogen supply and demand ecosystem. More cross-cutting work would be required in the coming years. Decision makers need to re-imagine answers on how to do away with industrial age process and efficiency constraints and think out of the box for new decarbonised solutions. Philanthropy can support specific research.

India's G20 presidency proved to be an important opportunity to establish the importance of Green Hydrogen towards India's energy transition and towards its aim to attain leadership in Green Hydrogen. The time is now ripe to raise philanthropic partnerships to scale Green Hydrogen and decarbonise industries. It is an opportunity that must be seized.

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Will Climate Fuel Green Globalisation: Looking Ahead of G20

The recent G20 meeting in Delhi, India, resulted in the Delhi Declaration with a consensus to 'urgently accelerate' actions to address environmental crises and challenges including climate change and recognising that the crisis is real and here. This declaration backed by 85 percent of the global GDP and two thirds of the global population carries weight.

The transition to net zero aligned development is arguably one of the greatest challenges for the world. This not only calls for an overhaul on the way we produce, consume, and move, but a fundamental transformation of nearly all major industries.

Considering business and national commitments, pooling in ideas, business power and influence, and funding is a must to support the evolution of policy and practice eco-system to support

and guide new India's economic and development paradigm.

Access to Technology and finance to enable the transition are key input imperatives. Globalization is the underlying bedrock on which global access to technology and capital can be unleashed at scale and speed. The coming decade is going to be decisive in enabling climate innovation.

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PIPE Programme by Shakti

The Power Innovation Platform for Ecosystem Activation (PIPE) programme by Shakti seeks to support cleantech innovation and enable technologies can that be deployed at scale.

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CONVENINGS

Shakti believes in bringing together stakeholders from different arenas to enable them to work together, analyse problems, explore solutions, encourage innovative thinking and engage with them to help catalyse effectiveness towards a more sustainable future. In this Newsletter, we showcase some key Convenings organised by Shakti that resulted in impactful and positive discussions.

Cities and Climate Action Workshop by Shakti and BIOCON Foundation

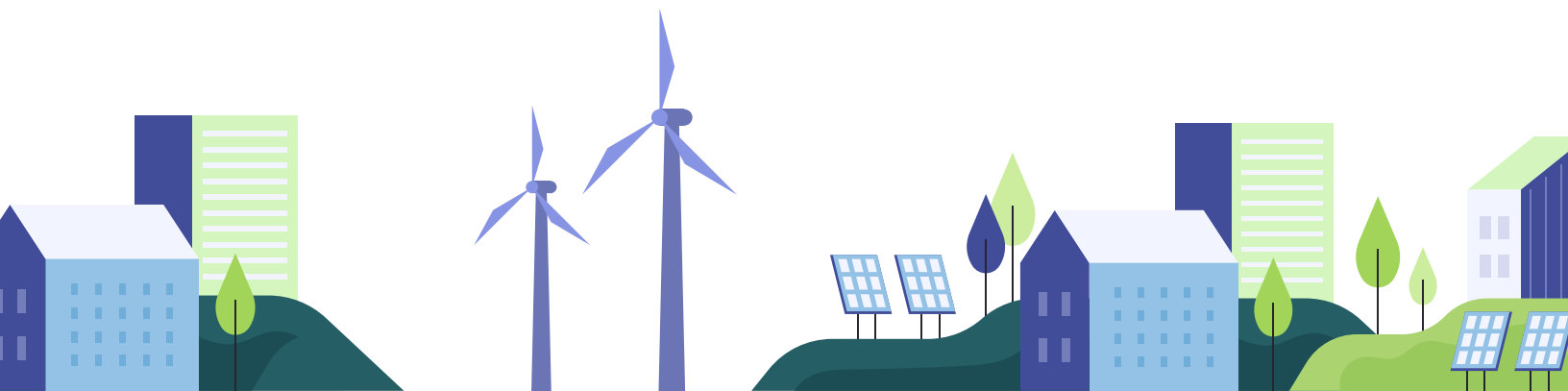
Biocon Foundation and Shakti Sustainable Energy Foundation jointly organised a workshop on July 7, 2023 at Bengaluru aimed at establishing collaboration among CSR and Philanthropies to take concerted action addressing the challenges posed by climate change to the economic growth engines of India - our urban centres.

A subsequent workshop, was held on September 21, that placed a significant emphasis on the strategic intervention domains for philanthropic and corporate entities to support the cities become climate resilient.

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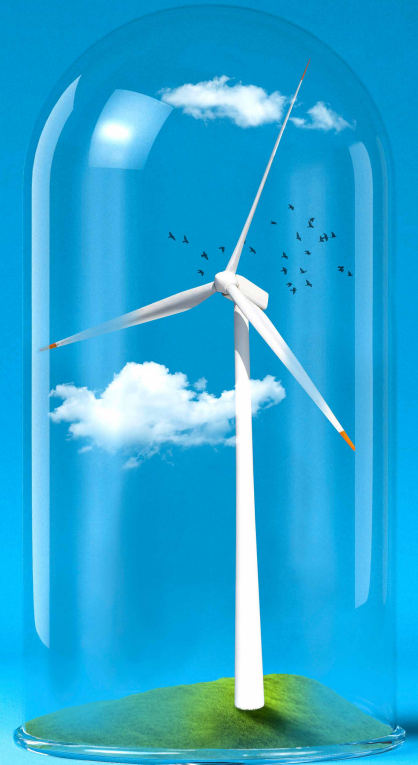
“ Estimates suggest a doubling of urban population by mid-century, to reach 40 per cent by 2030 and 51 per cent by 2050. ”



The Role of CSOs in India's Response to Critical Raw Materials

Shakti convened a Brainstorming Meeting on 'The role of CSOs in India's response to Critical Raw Materials'. The meeting brought together a remarkable assembly of Civil Society Organisations (CSOs) leading the charge on CRMs. The purpose was clear: to unite, share progress, and importantly, to explore ways to amplify our collective impact in paving the way for a smooth energy transition for India.

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Sustainable and Climate-resilient Practices in Agriculture and Land Use Within India

On September 13, 2023, Shakti Sustainable Energy Foundation conducted a convening that aimed to pave the way for sustainable and climate-resilient practices in agriculture and land use within India. This convening brought together a diverse array of experts representing prominent civil society organisations, creating a dynamic and insightful platform for dialogue.

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Role of Energy Storage System for Renewable Energy Integration in India

Shakti Sustainable Energy Foundation convened a Stakeholder Consultation on the 'Role of Energy Storage System for Renewable Energy Integration in India'. The discussion centred around - need for energy storage for flexibility in the greener grid; policy and regulatory framework; storage applications; financing needs; and key implementation challenges and barriers in India. The convening was an important forum for exchange of ideas and detailed open discussions on the subject.

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CENTRESTAGE

As a thought leader and respected knowledge partner, Shakti team members are invited to participate and share their thoughts at various important platforms, events, and discussions. This is a recognition of their expertise and knowledge in a vast variety of topics. In this newsletter, we showcase some of the prime events where Shakti team participated.

Shakti Signs MoUs with CESL and EESL

On 22 July 2023, EESL organised a side event 'Accelerating India's transition towards Net Zero through Energy Efficiency, Sustainable Cooling & Mobility' at the 14th Clean Energy Ministerial (CEM14) in Goa, wherein EESL and its subsidiary Convergence Energy Services Limited (CESL) forged multiple partnerships across the energy sector. An MoU signed between Shakti and Energy Efficiency Services Limited, was exchanged between Shri Vishal Kapoor,

MD and CEO, EESL and Mr Koyel Kumar Mandal, Chief of Programmes, to mark the collaboration in developing a strategic partnership aimed at driving the market transformation towards energy-efficient fans.

An MoU between Shakti and Convergence Energy Services Limited (CESL), was also exchanged between Shri Vishal Kapoor, MD and CEO, CESL and Mr Koyel Kumar Mandal, Chief of Programmes, Shakti to develop a strategic partnership to jointly work and collaborate to increase the adoption of sustainable mobility technologies in the areas of electric mobility.

[Read more](#)



GroW Network Supported by Shakti, AFD and SIDBI Holds Impactful Events

GroW (Greening of finance by Women) Network, founded by Shakti Sustainable Energy Foundation, Small Industries Development Bank of India (SIDBI), and Agence Française de Développement (AFD), recently hosted two impactful events that have made significant contributions to the fields of sustainable entrepreneurship and gender-inclusive finance. The first event on July 13, 2023, marked GroW Network's inaugural Virtual Meet-up tailored for its members and the second event on September 15, 2023 was the GroW Investor-Entrepreneur Matchmaking series that provided a unique platform for high-potential women entrepreneurs in the climate solutions sector to connect with capital providers.

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Shakti Signs MoU to Support NHEV

National Highways for Electric Vehicles is the first intercity E-mobility pilot programme under Transformative Mobility and Battery Storage Mission through Ease of Doing Business(EODB) division of 'Advance Services for Social and Administrative Reforms' based on licensing remodelling for the setup of Charging Stations on National Highways under Ministry of Power. Two out of twelve National Highways (Delhi-Jaipur, Delhi-Agra) would be converted into E-Highways which are being prototyped on Annuity Hybrid E-Mobility (AHM) financial model to fund economical EV charging infra on these highways.

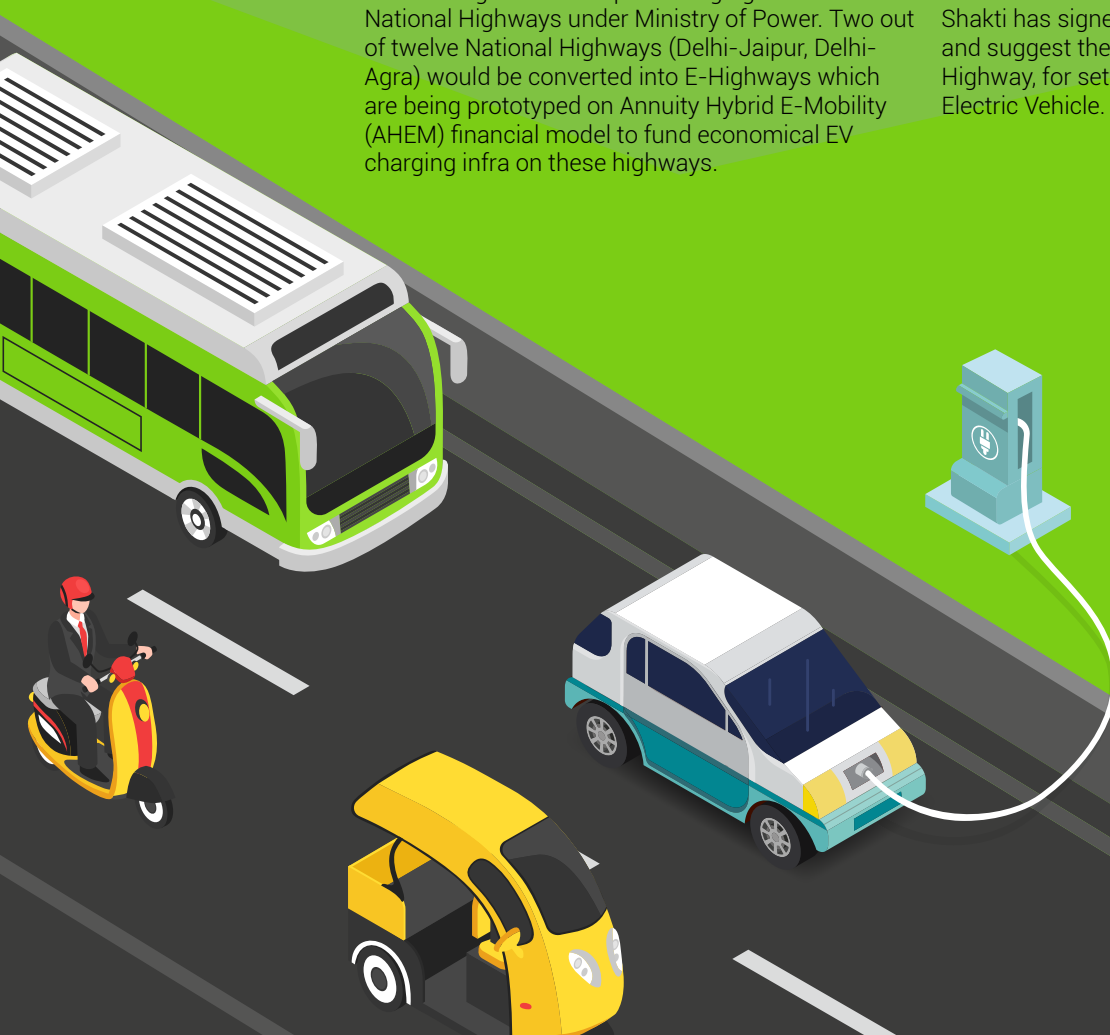
The goal of the NHEV pilot is to create Ease of Doing Business in E-mobility by making it feasible to licence, design, commission, install, electrify, certify, and finance charging and green energy stations for Public Private Partnership (PPP) models among diverse institutional, geographical, and community levels.

Shakti has signed an MoU to support NHEV to assess and suggest the power availability along the National Highway, for setting up charging infrastructure for Electric Vehicle.

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How Can We Operationalise Equity in the Global Stocktake (GST) Debate?

The consultation on 'How can we operationalise equity in the Global Stocktake (GST) debate?' that took place in New Delhi on July 11, 2023, was organised jointly by the Council on Energy, Environment, and Water (CEEW), the Institute for Sustainable Development and International Relations (IDDRI), and the Indian Institute of Management – Ahmedabad (IIMA). The main objective of the workshop was to explore how equity and accountability could be integrated into the Global Stocktake process, especially in light of the growing developmental needs and perspectives from the global south. In the session 'Finance as a Bridge to Equity', Nidhi Madan, Associate Director, Shakti, emphasised the importance of Indian civil society in facilitating international collaboration and the efficient allocation of climate finance to support developing nations.

[Read more](#) | [Video](#)



Towards Optimal Pathways for Decarbonising the Indian Steel Sector

An event was organised by ICRIER on 'Towards Optimal Pathways for Decarbonising the Indian Steel Sector' on August 9, 2023, to deliberate on the outcomes of the Shakti-supported study on landscape review of the policy levers of top steel-producing countries to transition towards a carbon-neutral steel sector and understanding the impact of Carbon Border Adjustment Mechanism (CBAM) on the Indian steel sector.

Mr Nitin Desai, Former Under-Secretary-General at the United Nations, current member of ICRIER's Board of Governance, and current board member at Shakti delivered his welcome address at this event and Dr Sachin Kumar, Director, Industry, Building and Cooling Programme at Shakti delivered the inaugural address in this dissemination workshop.

[Read more](#)



Manufacturing Energy Efficient Fans in MSME Sectors: Issues & Remedial Measures



On July 14, 2023, The Energy and Resources Institute (TERI), in collaboration with the Fan Manufacturers Cluster Foundation of Kolkata (FMC FK), organised a half-day consultation workshop on 'Manufacturing Energy-Efficient Fans in the MSME Sector: Issues and Remedial Measures' in Kolkata. This workshop brought together key stakeholders from various sectors, including fan manufacturers, decision-makers such as the Department of MSME & Testing (Government of West Bengal),

technical agencies, and financial institutions. In the closing remarks, Sakshi Nathani, Assistant Programme Manager, Buildings & Cooling at SSEE, emphasised that fans are essential for providing thermal comfort to many households in India. Enhancing energy efficiency with affordability should be seen as a necessity rather than a luxury while addressing the challenges.

[Read more](#)



The event focussed on the challenges faced by small-scale manufacturers in the manufacturing of energy-efficient fans.

Shakti at the Bombay Chamber of Commerce Event

Manu Maudgal, Head, Corporate and Philanthropic Engagement, Shakti, participated in a Private equity & Venture Capital Conclave on 'Financing India's Green Future' in a session 'Navigating Evolving Regulatory Landscape in Green Financing'.

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India Cold Chain Conclave: Himalayan Chapter

The India Cold Chain Conclave, Himalayan Chapter was organised by the National Centre for Cold Chain Development (NCCD) in collaboration with the PHD Chamber of Commerce and Industries (PHDCCI) at Kashmir International Convention Centre, Srinagar, J&K on September 20th, 2023. In one of the technical panel discussions on 'Energy Efficient Technologies & Energy Transition', Dr Sachin Kumar, Director of Industry, Buildings & Cooling Programme at Shakti, highlighted the development of an integrated sustainable cold value chain.

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Shakti as Knowledge Partner at the 14th Clean Energy Ministerial/8th Mission Innovation

The ZEV Technology Showcase of the 14th Clean Energy Ministerial/ 8th Mission Innovation was inaugurated by Goa's Honourable Chief Minister, Dr Pramod Sawant, at the Dr Shyama Prasad Mukherjee Indoor Stadium. Senior dignitaries, including Shri Sudin Dhavalikar, Minister of Power, Goa, Bureau of Energy efficiency were present. Shakti, in collaboration with TERI and CALSTART supported the ZEV

Technology Showcase for Buses and Trucks as a Knowledge partner. The technology display, which took place concurrently with the G20 India Energy Transition Ministerial Meeting (ETMM), highlights cutting-edge innovations like electric vehicles, hydrogen fuel cells, and other clean fuel.

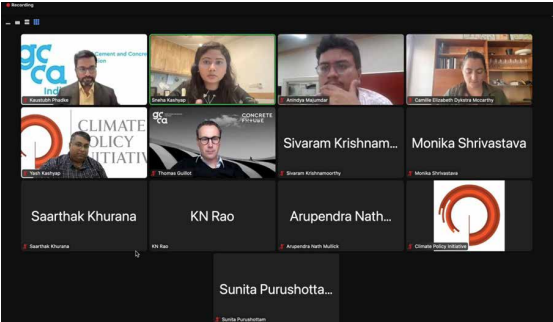
[Read more](#)



Decarbonising the Indian Cement and Concrete Sector

Sheha Kashyap, Assistant Programme Manager, Industry Programme, Shakti, participated in a stakeholder roundtable on 'Decarbonising the Indian Cement and Concrete Sector' which was jointly organised by Climate Policy Initiative and GCCA India – Global Cement and concrete Association, India on September 14, 2023.

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Alternate battery technologies for e-rickshaws in India.



EVfying Last Mile Freight in the UT of Ladakh



Last Mile Connectivity of Gramin Dak Sevaks



Electrifying Meghalaya: Exploring Entrepreneurial Opportunities for Women and Marginal Communities in E-Mobility



India Clean Transportation Summit



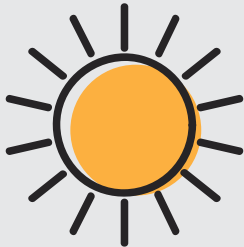
Policy Support & Enablers to Accelerate India's Electric Mobility



Connect Karo 2023 Organised by WRI



EV Dashboard
Panel Discussion:
Power of EV Sales Data in Policy



INSIGHTS

World Ozone Day – Electric Vehicles Making an Impact

The International Day for preservation of the Ozone Layer, or simply, “World Ozone Day”, commemorates the ratification of the Montreal Protocol, an international environmental treaty, signed on September 16, 1987. Its primary objective was to protect the Earth’s ozone layer by phasing out the production and consumption of substances known as ozone-depleting substances (ODS). It has been highly effective in achieving its objectives and has had positive environmental and health impacts at a global scale.

Read more

A Report by Shakti Sustainable Energy Foundation and Oxford Policy

A report by Shakti Sustainable Energy Foundation and Oxford Policy Management ‘Scoping Study for a Cities Climate Change Programme’ serves as a comprehensive assessment of the current scenario of climate action in Indian cities.

The report emphasises the benefits of undertaking climate action in cities, the specific challenges, and its utility within the larger climate actions ecosystem. It hopes to inform civil society and other urban stakeholders on the challenges and to catalyse innovation required to enable bold steps towards a sustainable urban future.

Read more



HIGHLIGHTS

Shakti Celebrates World EV Day to Raise Awareness about EVs and Promote their Adoption

As part of World EV Day, Shakti began a month-long initiative on Independence Day, August 15, 2023, a day that symbolises freedom and innovation. Shakti team embarked on an electrifying journey to promote sustainable transportation and debunk myths surrounding electric vehicles. A hashtag, #jointheEVolution was created which saw major adoption across social media platforms. This hashtag became a unifying force, bringing together individuals and organisations committed to accelerating the transition to electric mobility.



Did You Know, Fascinating Facts EV characters and Riddles related to EVs was part of this Social Media initiative in an effort to make EVs relatable and exciting. The aim was to enlighten the audience on the benefits and potential of EVs paving the way for a greener future. As part of our World EV Day celebrations, exciting office activities were organised that brought colleagues together in a spirit of creativity and collaboration.

[Read more](#) | [EV Day activities](#) | [Watch video](#)



Video

Onam Celebrations at Shakti 2023

Shakti celebrated Onam in the office, with delicious Onam Sadhya lunch for everyone. The day was made colourful with employees wearing traditional Kerala attire. Shakti is committed to promoting diversity and inclusion that resonates strongly in its activities and celebrations infusing a sense of bonding and team spirit.

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New Joinees

Khushi Sharma:
Joined as Assistant
Communications
Manager



Bansi Shukla: Joined
as Senior Programme
Manager in the Industry,
Buildings, Cooling team.

Balaji Raparthi: Joined
as Senior Programme
Manager in the Electric
Mobility team.



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