



enVision
India's First Energy Festival

3rd - 5th November 2022 | IIT Madras Research Park



India's First Energy Festival to ideate, collaborate,
share perspectives and accelerate the adoption
of renewable energy in the country.

Since its inception in 2010, IIT Madras Research Park has evolved to become a beacon of technological excellence. Nurturing some of the most successful startups to scaled commercialization & fostering R&D collaboration, globally, given its strength "bringing unlike minds together".

Partnering with the India Energy Storage Alliance (IESA), EnVision 2022 aims to set clear the roadmap of technologies that will take India towards Net-zero.



**Industry
Experts**

**Eminent
Professors**

**Energy
Startups**

**Students &
Research Scholars**



EnVision - For Industry, Academia and Students

RP Tours

Nurture & inspire young technologists for future challenges

Seek & identify young talent who can propel your R&D forward

Connect with students & youngsters from top univesities

Photo Ops

EV Parade

Startup Interaction

Industry



Academia

Network with top industrialists

Understand real-time challenges for commercialization

Learn the short & long-term goals towards Net-Zero

Expert Talks

Interact with Eminent Professors & Scholars

Students

Visit the IITMIC innovation Ecosystem of 270+ startups

Ideate problem statements & kickstart collaborations with Academicians

Documentary Screening

Paper Presentations

Themes of EnVision

Day 1

Techno-economic readiness in 0-5 Years

Renewable energy generation: Technology and Economics
Energy Storage Systems
Enhancing Energy Efficiency: Heating and Cooling

Day 2

Techno-economic readiness in 5-10 Years

Electrification of Transportation and Mobility
Green Hydrogen Generation
Decarbonisation of ammonia, steel, cement sectors

Day 3

Techno-economic readiness in 10+ Years

Carbon capture, utilisation, sequestration and recycling
Small modular nuclear reactors and compressed air

Event Schedule

3rd November

Day 1

0-5 Years

	09:00 onwards	Registrations at 7th Floor, D-Block, IITM Research Park
INAUGURATION CEREMONY	10:00 - 10:45	Dr. N Kalaiselvi – Director General, CSIR M M Murugappan – Chairman, CUMI Murugappa Group
KEYNOTE ADDRESS	10:45 - 11:30	Prof. Ashok Jhunjhunwala - IITM Research Park
BREAK	11:30 - 12:00	Tea & Refreshments
RENEWABLE ENERGY GENERATION: TECHNO-ECONOMICS	12:00 - 13:30	A Talk by Dr. Milind Kulkarni - Reliance Panel Discussion Moderator: Anson Sando - IITM Research Park Sujoy Ghosh - First Solar G Sivaramakrishnan – ANERT Ramakrishnan G K - Wärtsilä Baskara Pandian - Vikram Solar
BREAK	13:30 - 14:15	Lunch
ENERGY STORAGE SYSTEMS	14:15 - 16:15	A Talk by Dr. R. Gopalan - ARCI A Talk by Dr. Rahul Walawalkar – IESA Panel Discussion Moderator: Dr. Kaushal Jha - CEET Mahesh Godi – Godi Energy Akshay Singhal - Log 9 Ravichandran Purushotham - Danfoss Gayatri Dadheech - Exide
BREAK	16:15 - 16:45	Tea & Refreshments
ENHANCING ENERGY EFFICIENCY	16:45 - 18:30	A Talk by Prof. Satyanarayanan Seshadri – IIT Madras Panel Discussion Moderator: Prof. Ashok Jhunjhunwala - IITM Research Park Dr. Satish Kumar - AEEE Kartik Kumar - Saint Gobain Research India Ankit Poddar - Zedbee Technologies Bharatwaj Ramakrishnan – Applied Materials
BREAK	18:30 - 21:00	Networking Dinner

Event Schedule

4 th November	Day 2	5-10 Years
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DECARBONISATION OF CONSTRUCTION, CEMENT AND STEEL	09:30 - 10:40	A Talk by Prof. Manu Santhanam - IIT Madras A Talk by Dr. Samik Nag - TATA Steel A Talk by Prof. Ajay Shukla - IIT Madras
BREAK	10:40 - 11:10	Tea & Refreshments
WIRELESS POWER TRANSMISSION	11:10 - 11:30	A Talk by Prof. Uday Khankhoje - IIT Madras
ELECTRIFICATION OF TRANSPORTATION AND MOBILITY	11:30 - 13:00	A Talk by Randheer Singh - NITI Aayog Panel Discussion Moderator : Prof. Karthick Athmanathan - IIT Madras Anitha Dhianeshwar - Flowtrik Rahul Bagdia - pManifold Debi Prasad Dash - IESA Prof. L. Kannan - IIT Madras Ram Bhavaraju - Ather Energy
BREAK	13:00 - 14:00	Lunch
CARBON CAPTURE	14:00 - 14:30	A Talk by Prof. Rajnish Kumar - IIT Madras
GREEN HYDROGEN	14:30 - 16:30	A Talk by Prof. Aravind Kumar - IIT Madras Panel Discussion Moderator : Dr. Ajinkya Kamat - IESA Pawan Mehndiratta - L&T Shaji John - Ohmium Dr. Anuradda Ganesh - Cummins Technologies Prithvi Pal Singh Negi - Dept of Science & Technology
	16:30 - 16:45	TOYOTA CONNECTED : Eco-Routing Session
	16:45 onwards	Research Park Tour - Centre for Battery Engineering & Electric Vehicles, Recycling Lab, Incubation Cell High-Tea & Networking

Event Schedule

5th November

Day 3

10-15 Years

OFFSHORE WIND	09:30 - 10:15	A Talk by Dr. K. Balaraman - National Institute of Wind Energy A Talk by Srijith Menon - UK Embassy Research
SMALL MODULAR NUCLEAR REACTOR	10:15 - 11:15	A Talk by Dr. A.K. Nayak - BARC
BREAK	11:15 - 11:45	Tea & Refreshments
LONG DURATION ENERGY STORAGE	11:45 - 12:05	A Talk by Prof. Aravind Kumar Chandiran - IIT Madras
CLIMATE FINANCE	12:05 - 13:30	Panel Discussion Moderator : Chandrashekar Chincholkar - CES Jayant Deo - Former IEX Vinod Kumar - AusTrade Madhavan Nampoothiri - Aspiration Cleantech Ventures Sushil Muhnot - Former CMD, Bank of Maharashtra Aman Hans - Former NITI Aayog
CONCLUSION	13:30 - 14:00	IITM Research Park and IESA
BREAK	14:00 - 14:45	Lunch
EV PARADE	14:45 - 15:45	EV PARADE - IITM to IITM Research Park Courtyard
	15:45 Onwards	High-Tea - IITM Research Park Courtyard



Dr. N. Kalaiselvi

Director General, CSIR - Central
Electro Chemical Research Institute



Prof. Ashok Jhunjunwala

President, IIT Madras Research
Park and Incubation Cell



Dr. Rahul Walawalkar

President, India Energy
Storage Alliance



Dr. Milind Kulkarni

President, PV Manufacturing,
Reliance New Energy Solar



Dr. Akshay Singhal

Founder and CEO,
Log 9 Materials



Sujoy Ghosh

Vice President and Country
Managing Director,
India-First Solar



Shaji John

Head - Sales and Business
Development, Ohmium (South
Asia, Middle East and Africa)



Dr. Anuradda Ganesh

Director and Chief Technical
Advisor, Cummins Technologies



**Ravichandran
Purushothaman**

President,
Danfoss India



Dr. Satish Kumar

President and Executive
Director, AEEE



Pawan Mehndiratta

Head-Technology & Manufacturing,
Hydrogen business,
L&T Green Energy



**Prof. Aravind Kumar
Chandiran**

Assistant Professor,
Department of Chemical
Engineering, IIT Madras



Prof. Rajnish Kumar

Professor, Department of Chemical Engineering, IIT Madras



Ankit Poddar

CEO,
ZedBee Technologies



Madhavan Nampoothiri

Director,
RESolve Energy



Ramakrishnan Gopalakrishna

General Manager
Business Development, Wärtsilä



Rahul Bagdia

Chairman & Managing Director,
pManifold



Prof. Karthick Athmanathan

Professor of Practice,
IIT Madras



Prof. Satyanarayanan Seshadri

Associate Professor, Applied Mechanics, IIT Madras



Debi Prasad Dash

Executive Director,
India Energy Storage Alliance



Prof. L. Kannan

Professor of Practice, Department of Engineering Design, IIT Madras



Ram Bhavaraju

Head - Software Development, Ather



Dr. A.K.Nayak

Head - Nuclear Control and Planning Wing, Dept of Atomic Energy - BARC



Dr. K. Balaraman

Director General, National Institute of Wind Energy, Ministry of New and Renewable Energy



Dr. R. Gopalan

Regional Director,
International Advanced Research
Centre for Powder Metallurgy and New
Materials



Sushil Muhnot

Senior Advisor,
CUTS International



G. Sivaramakrishnan

Agency for New and Renewable
Energy Research and Technology,
Kerala



Aman Hans

Ex - Public-Private Partnership
Specialist, NITI Aayog



M M Murugappan

Chairman, CUMI
Murugappa Group



Anson Sando

Head – Energy Programs,
IIT Madras Research Park



Baskara Pandian

Technical Head - Solar Cells,
Vikram Solar



Prof. Kaushal Jha

Centre of Excellence for Energy
and Telecom, IIT Madras
Research Park



Mahesh Godi

Founder & CEO, Godi Energy



Dr. Gayatri Dadheech

Chief Technology Officer,
Exide Industries Limited



Dr. Kartik Kumar

Deputy Director, Saint Gobain
Research India Pvt Ltd



Prof. Manu Santhanam

Building Technology and Construction
Management division, IIT Madras



Srijith Menon

Senior Adviser - Energy British
Deputy High Commission, Chennai



Chandrashekar Chincholkar

Director - Corporate Advisory,
Customized Energy Solutions India Pvt Ltd



Jayant Deo

Indian Energy Exchange (IEX),
former



Bharatwaj Ramakrishnan

Director at the Office of the CTO,
Applied Materials



Prof. Ajay Shukla

Associate Professor,
IIT Madras



Prof. Uday Khankhoje

Associate Professor - Electrical
Engineering, IIT Madras



Randheer Singh

Director - Electric Mobility and
ACC Program, NITI Aayog



Dr. Ajinkya Kamat

Innovation Fellow,
India Energy Storage Alliance



Vinod Kumar N

Director - Trade & Investment, AusTrade



Anitha Dhianeshwar

Co-founder & Director,
Flowtrik Technologies Pvt. Ltd.



Dr. Samik Nag

Research & Development, Tata Steel



Thakur Prithvi Pal Singh Negi

Program Coordinator - Hydrogen,
Ministry of Science & Technology



Vidyashankar Subramanian

Vice President - Project Advisory & Structured
Finance, SBI Capital Markets

Gold Sponsor

TATA STEEL

 **WeAlsoMakeTomorrow**

Silver Sponsor





Contact
anson@respark.iitm.ac.in
ritvika@respark.iitm.ac.in

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