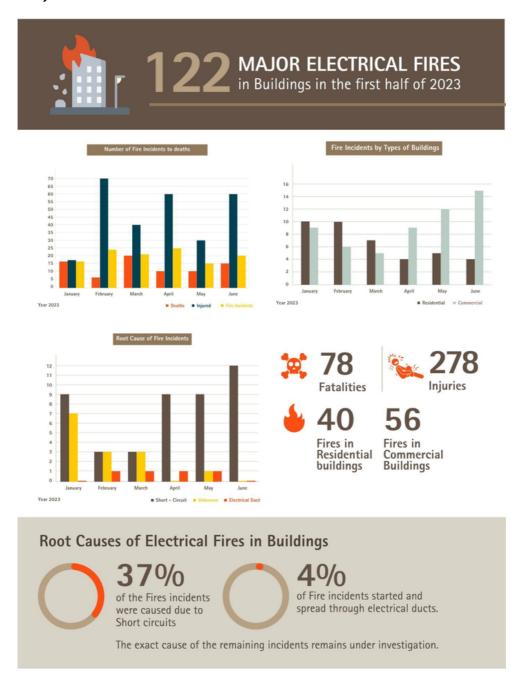


July 2023

Cover Story

Short circuit is the cause behind 37% of the building fires between Jan 23 to June 23, observes ICA India's Fire Tracker



Disclaimer: Data collected from publicly available news sources. This is indicative data and may not be comprehensive.

ICA India has been closely tracking the building fires across India to analyse root causes and understand the loss of lives and property. The data provides incisive insights into the state of electrical safety across various regions, types of buildings, and electrical installations.

In Focus

Empowering our first line of defense: Enhancing Safety and Emergency Response for Fire Service Personnel



ICA India conducted a Technical Session on July 19, 2023, for Fire Services, Govt. of West Bengal.

The session aimed at improving fire safety parameters, reducing the danger of electrical fire incidents, and strengthening emergency response capabilities. The team from ICA India, including Mr. Amol Kalsekar, Chief Manager of ICA India, Mr. Hemant Sali, Ex SE & Electrical Inspector of PWD, Maharashtra, and Mr. Indrajit Biswas, Project Associate of Eastern Region at ICA India, facilitated various sessions for the attendees.

Announcement

Assessing benefits of solar based micro irrigation in India



Stakeholder consultation by ICA through its Alliance for Solarised Irrigation (ASI) along with Indian council for Agricultural Research (ICAR)

The discussion focused on assessing the appropriateness and feasibility of bundling solar pumping systems with micro-irrigation and promoting these technologies together.

The consultation saw participation from the industry experts from solar, irrigation and pumping systems, international Institutes working on agriculture and water management, NGOs and field extension personnels

This consultation is a part of the ongoing study by ICA and ICAR-NIAP for policy advocacy to states (Rajasthan and Uttar Pradesh) on convergence of solar and micro irrigation subsidy schemes of federal government.

ICA India is glad to have been a part of fourth ETWG meeting DAKSHTA with EESL under India's G20 presidency and the 14th Clean Energy Ministerial meeting.



The event aimed to discuss energy efficiency experience and learning in the global context.

Mayur Karmarkar, MD, ICA India as a part of the expert panel shared his views on how EESL's demand aggregation & innovative financing model has helped in market transformation for IE3 motors by addressing high upfront cost for industrial users.

ICA India has been an active knowledge partner to EESL on this journey since 2017.

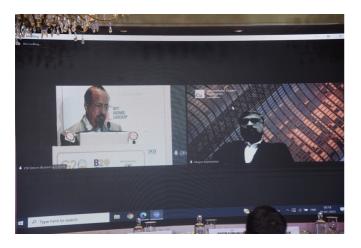
ICA India at the 4th Green Pro Summit 2023 orgainzed by CII Green Buildings



The 4th Green Pro Summit was held on 20th July 2023, at Bengaluru. The theme for this edition was 'Towards Net Zero'.

GreenPro is a prominent Indian Ecolabel that empowers industrial and building sector users to select sustainable products, materials, and technologies to reduce environmental impacts.

Since its establishment in 2015, GreenPro has been supporting manufacturers and end-users in achieving their sustainability objectives. To date, we have certified over 6600+ products in the building and industrial sectors.



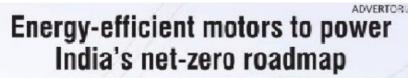
Mayur Karmarkar, MD, ICA India presented his views on "Copper Industry Decarbonisation: Aiding the Automotive Sector", highlighting Copper as a strategic raw material for Energy Transition & copper industry's pathway to NetZero.

Media Spotlight

Energy Efficient motors to power India's net zero roadmap

Mayur Karmarkar, MD, ICA India writes on the urgent need for higher energy efficiency standards in India and the importance of aligning with global emission reduction commitments

Published by The Indian Express Delhi (Sunday Edition) |



By Mayor Kamarkar

India has occumited to achieve net-peroemissions by 300%, uncersoring the ungancy of dimital action. However, india's energy consumption is projected to grow approximately 1.5 times faster than the global average in the need times decades. I Electric motion and instancement systems account for approximately 70% of the electricity consumed by industries at a global lavel. Given that the industry contributes to about 40% of the six of edincity demains, motions consume arosend 26% of the total electricity, surpassing lighting at 34%.

In FVI2, the Indian electric motors matfect was estimated to be around IR (10,000). Crease, with a compound entrusi growth rate (CAGR) of 15% in value terms and 5.4% in Blowelf (FW) terms. The demestic motor manufactures are represented by members of the Indian Electrical S Electronics Manufactures' Association (IEE-MA), All India Electric Motor Manufacturers Association, VEEMAN), and Sowthern India. Engineering Manufacturing Association (SIEMA).

It is crucial to recognise the increasing need for energy efficiency due to various reasons such as starcity of energy and climate change concerns. Many councileshave acknowledged the potential of encugy-efficient motors and issued cirectives tophase out lower-effecting motors for the adoption of higher-efficiency ones to perthe Minmum Deny Performance Statdards (MEPS). While for the in efficient: instilled base to be reprecial with higher efficiency motors, a voluntary program such as Platfornal Metar Replacement. Program, where ICA is a knowled ge partner to therpy thorney bennes Limited (EES.) could be helpful to accelerate the adoption of higher efficiency motors at lower than market price by the industries.

Resiste research. His. Anal Hath, Association Vice President, Essaad Bit se Utd. high-rights that 13 economies worldwide have adopted IE3 as the minimum efficiency standard fee helicardal enters. However, tode has been following the IE2 standard as its MEPS standard as its from the Indian Cleanard and Cleanard and Cleanard and Cleanard and Cleanard and Essaed as india meet if 3 and higher standards, and this percentage is https://www.isa.org/report/ecit/energy-outlook-res

SPECTOR MOTORS

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SPECTOR DESIGNATION

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expected to reach 40% next year based on the course's trend. He further opines that upgrading to IE3 motion as MEPS is crucial to lave INI. 400 Coron in imports and boost the records in the counters.

Minimum energy performance standards (MEPS) serve as a cucial mechanism for regulating the energy performance of appliances and equipment. These standards are wisely recognized and offer a rest effective approach for governmental effects associated with the utilization of various appliances. At present, india's MEPS include ISS and omwards energy efficient motions. Since the mandatoxy implementation of MEPS at the ISS laudi in 2018, the mandatoxy implementation of MEPS at the ISS laudi in 2018, the mandatoxy implementation of MEPS at the ISS laudi in 2018, the mandatoxy implementation of MEPS at the ISS laudi possible propriets and proposed propriets in 2018 in ISSS.

following the implementation of motor MEPS in 2018, the Bureau of Indian Standards (005) has issued isomers of 120 manufacturers for producing energy-efficient motors with IRS certification (Dilmanks Out of these, 75 licenses have been granted for the manufacturing of pressure efficiency (IE3) motors, and 20 units have obtained licenses for producing super-premium (IE4) efficiency motors. These 75 licensees for IRS motors alone cader for more than 98% of the market demand.

The adoption of IEA motors still gresents a challenge for motor manufacturers due in what demand and higher prices. Furthermore, the use of their life frequency Drives (VFDs) in combination with IEB meters to enhance overall energy savings requirs in awar higher cores, if IEB becomes the new MEPS, focus on 16 motors is highly likely to increase. With increased resupptition and volume, the cost of IEA motors is

expected to decrease.

Considering that IE3 motors have achieved a substantial market share of around 80% in India, with numerous incesses obtained for manufacturing these motors, it is now necessary to upgrade the current mandatory MEPS from IE2 so IE3 in India by FY24.

Without timely upgrades to higher NBPS, there is a risk to the notion's dimenia action upwardingers, lephener identification action upwardings in destrict decay benies to india's industrial decaybonization affords in combating of materials. Switching to E3 and above materials as estimated to save 21.1 tensus (TW) of energy and INB 125 is industrial to rest five years. It will also aligned the notification of the point of the continues of the point of the continues of the point of t

Altereaver there is also the risk of becowing a dumping ground for the import of tower-thorn as motors in the steeries of higher MEPS. As several countries have already adopted 4.0 as MEPS and artistporting IEE motors to countries like Incis, upgrading to IEE as MEPS would algorifcastly such the import of lower efficiency

Higher energy efficiency metors will not only containable to indical disease good but also support sustainable growth and the disease. The sufficient effect of man officerum and policymakers is exacted to pass end up and adapting higher energy of the clercy motors, powing the work for a presener met environmental future.

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