



TECHNOLOGIES FOR A BETTER TOMORROW

A CSR Bulletin by IIT Madras

ADVANCING SUSTAINABLE COOLING SOLUTIONS



IIT Madras in collaboration with Vertiv recently inaugurated a new **Lab for Testing the Flammability of Alternative Refrigerants**. This initiative, funded by **Vertiv India's** Corporate Social Responsibility (CSR) program, is a significant step towards developing sustainable cooling solutions for India and the world.

The lab's primary focus aligns with the Montreal Protocol Kigali Amendment, an international agreement India has signed to phase out harmful refrigerants with high global warming potential (GWP). Currently used HFC refrigerants will be gradually withdrawn starting in 2025, necessitating the development of safe and effective alternatives.

The new lab at IIT Madras addresses this critical need by providing a platform to:

- Evaluate low-GWP refrigerants
- Prioritize safety
- Develop India-specific solutions

Reach out to csrpartner@ia.iitm.ac.in for future collaborations.

CSR PROJECT SHOWCASE

Beyond Sunshine and Wind

Indus Towers in collaboration with IIT Madras has taken a significant step towards a sustainable future by launching R&D Laboratories for **Green Hydrogen with Solar Integration and Battery Management System** at the IIT Madras

The **Green Hydrogen Microgrid** generates hydrogen from renewables and uses it to power stationary systems, while the **Battery Engineering Lab** develops **Battery Management Systems** critical for ensuring the safety and dependable performance of batteries in diverse applications preferably EVs under stressed conditions.



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CSR SPOTLIGHT

AI-driven Education for Children with Dyslexia

Open and free educational resources are brimming online, empowering self-learning for all. Technology, particularly AI, plays a crucial role in making education accessible.

However, a significant group often gets overlooked, children with dyslexia. IIT Madras aims to bridge this gap by creating an **AI-driven pedagogical framework** specifically designed for **children with dyslexia**.

This project goes beyond simply offering open content. It focuses on creating a comprehensive solution that includes:

- Screening Tool
- Caretaker Guidance
- Dyslexia-Friendly Content
- Mobile App Delivery

Don't miss out on this exciting opportunity. **Contact us today!** **Email:** csrpartner@ia.iitm.ac.in



NEWS AND EVENTS



IIT Madras Conclave Fuels Growth of Sports Tech in India

IIT Madras hosted India's first Sports Tech Start-Up Conclave in Delhi, aiming to fuel sporting excellence through technology. Over two days, the event witnessed product pitches from promising sports tech ventures, with shortlisted companies receiving funding from IITM Pravartak Technologies.

The initiative aims **to support 200 sports tech startups in the next five years**. IITM also unveiled "EduSwasth," a tech-based physical education program, and discussions focused on athlete performance, nutrition, and grassroots sports development. Additionally, IITM launched five new online courses in Sports Science and Management, alongside an anti-cheating initiative for chess. This conclave signifies IITM's commitment to fostering innovation and empowering India's sporting future.

PARTNER SPEAK

Renault Nissan Tech is proud to collaborate with IIT Madras and the Greater Chennai Police on a scientific study aimed at enhancing public transport safety. This initiative seeks innovative solutions from students and start-ups, with real-world implementation in mind. The project also included the launch of 'Low-Cost Technologies for Road Safety Improvement' at the Police Commissionerate and Labour Statue Junctions, in partnership with the Metropolitan Transport Corporation (Chennai). This project aligns with the UN's Sustainable Development Goal to improve safety by reducing fatalities.

I'm happy to be part of the team that collaborated with IIT Madras on this CSR project focused on road safety improvement. Partnering with IIT-M is crucial for collecting scientific data and implementing low-cost technologies to prevent accidents and reduce fatalities. ”

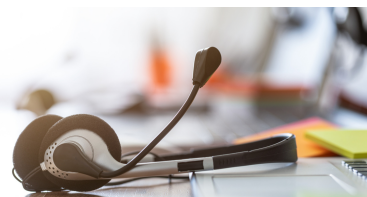


MR. HIROTAKE HARADA

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WE WOULD LOVE TO HEAR FROM YOU!

We trust you enjoyed perusing our CSR Newsletter Bulletin! Do get in touch and let us know your thoughts. We look forward to hearing from you!



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