



IIT Madras

TECHNOLOGIES FOR A BETTER TOMORROW

A CSR Bulletin by IIT Madras

Sustainability & Climate Change Special

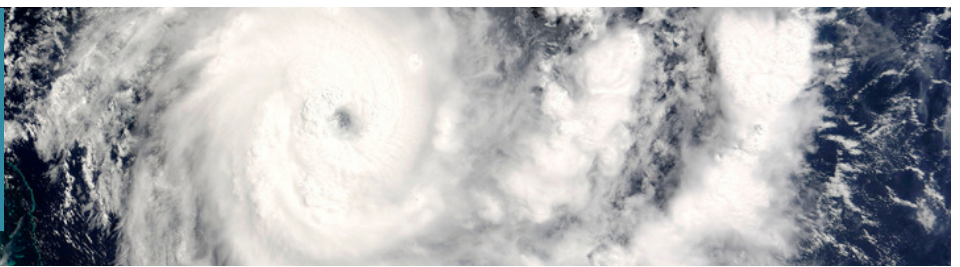
IIT MADRAS TOGETHER WITH GERMAN SCIENTISTS EXPLORE INTERACTION AND MERGING OF TWO CYCLONES

IIT Madras collaborated with researchers from IIT Hyderabad and Potsdam Institute of Climate Impact Research (PIK), Germany, to tackle the problem of merging tropical cyclones in [an article](#) titled 'Study of Interaction and Complete Merging of Binary Cyclones Using Complex Networks' published in Chaos: An Interdisciplinary Journal of Nonlinear Science.

The research can potentially improve the accuracy of early warning signals provided by meteorological organisations to the government, allowing for pre-emptive action to reduce the impact of such disasters.



To collaborate with IIT Madras on such path-breaking research / initiatives relating to climate change and sustainability under CSR, get in touch with us at csrpartner@ia.iitm.ac.in



CSR PROJECT SHOWCASE



DRIVING THE GREEN ENERGY REVOLUTION

Award-winning Rooftop Solar Power Project in IIT Madras – a CSR Initiative of REC Ltd

IIT Madras, in partnership with Rural Electrification Corporation Limited, successfully implemented a 2MW rooftop solar photovoltaic (PV) system within the campus to generate clean energy, reduce peak demand from the grid, minimise the institute's carbon footprint, and decrease its reliance on non-renewable energy sources. The project has, till date, enabled a savings of several thousand tonnes of Co2 emissions and a cost savings of around 10 crore INR, since its installation.

IEEE Spectrum has awarded this project, 'The Service of Society' award for developing a rooftop solar direct current(DC) power system to make the rooftop solar power more effective.

Interested in similar CSR Initiatives? please get in touch

CSR SPOTLIGHT

Rapidly increasing CO2 emissions and fossil fuel utilisation mandate an urgent shift to cleaner energy sources to ensure sustainable futures. This project aims to harness readily available renewable resources, like India's year-round sunshine and extensive coastline, to optimise green hydrogen production.

Moreover, the project strives to create cost-effective electrocatalysts and electrodes to sustain seawater splitting without chlorine evolution or chloride corrosion while promoting good hydrogen evolution reactions.

The project invites CSR funding to advance these technologies, addressing environmental concerns and water scarcity issues.



GREEN HYDROGEN: PV-ASSISTED GENERATION FROM SEAWATER

NEWS AND EVENTS



IIT MADRAS WORKSHOP LED BY

DR. AMORY LOVINS

IIT Madras' Energy Consortium hosted a workshop led by Dr. Amory Lovins, a renowned energy innovator and co-founder of Rocky Mountain Institute, on Integrative Design for Sustainability and Radical Resource Efficiency. The workshop focused on the real-world implementation of Dr. Lovins' unique suite of design techniques and principles that apply whole-system thinking to achieve energy and resource efficiency, which has yielded enormous energy savings, better performance, and lower capital costs across diverse engineering disciplines and applications.

TESTIMONIAL

Over the years, our collaboration with IIT Madras has proven to be of a tremendous value in our CSR journey. The institute has been instrumental in achieving a meaningful impact on the communities that Chola serves.

I would like to extend my heartfelt gratitude to the entire IIT Madras community for their support, dedication, and commitment to making the people enter a better Life.

MR. NARENDRA KUMAR N,

SENIOR ASSOCIATE VICE PRESIDENT- HEAD CSR, CIFCL



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!



An initiative by the
Office of Institutional Advancement, IIT Madras



csrpartner@ia.iitm.ac.in