





## SELF-RELIANT INDIA WEBINARS 74th Independence Day Series

To commemorate the 74th Independence Day and the 1st anniversary of SIDDHI, we present to you a series of webinars on "India & Energy" held between 13th and 15th of August, 2021





13th August 6.30 pm - 7.30 pm (IST)



Clean water: Challenges and opportunities

### SPEAKER

# Prof. T. Pradeep

Institute Professor & Deepak Parekh Institute Chair Professor, IIT Madras.



14th August 6.30 pm - 7.30 pm (IST)



India's energy needs and innovative solutions

### SPEAKER

### Prof. Ashok Jhunjhunwala

Institute Professor, Indian Institute of Technology, Madras & Faculty-In-charge, IITM Research Park



15th August 6.30 pm - 7.30 pm (IST)



India's 5Gi standard : Manufacturing Ecosystem and Impact

### SPEAKER

## Prof. Bhaskar Ramamurthi

Director, Indian Institute of Technology Madras

Register on : https://linktr.ee/SIDDHI\_IITM

Watch LIVE at









### IRIS WEBINAR SERIES

# Energy, Propulsion and Renewables

Register at linktree/IITM\_loE

Aug 13, 2021

# Towards 100% Renewable Energy

6:00 pm to 6:45 pm IST



Prof. Ashok Jhunjhunwala FOUNDER AND PRESIDENT UT MACRAS DESEARCH PARK



Dr. Jonathan Fagerström DEPT, FOR ENLIRGY SYSTEM ANALYSIS INSTITUTE FOR ENERGY TECHNOLOGY KJELLER: NORWAY

### ABSTRACT

Inclia is poised to play a significant role in the global energy transition. The loE project, "Towards 100% RE", looks into the steps India can take to address climate change, and shift to fully renewable energy based systems.

# Microgrid Technologies

6:45 pm to 7:30 pm ist





Prof. Krishna Vasudevan DEPT: OF ELECTRICAL ENGINEERING



**Prof. Frank Behrendt** TECHNISCHIE UNIVERSITÄT HEREN

### ABSTRACT

Technologies for microgrid sources. interface power electronics, and storage useful for diverse sites are proposed to be researched. Topologies using distributed sources and loads would be decembalised studied with contrained control pandigms

# Advanced Gas Turbine Engine Technologi

## 7:30 pm to 8:15 pm IST



Prof. T.M. Muruganandam DEPT: OF AEROSPACE ENGINEERING UT MADRAS



Prof. Kamalesh Hatua DEPT OF FLECTHICAL PAGINITISING



Prof. Tim Lieuwen DEPT, CE ALROSPACE L'NGINE BING GLORGIA INSTITUTE OF TECHNOLOGY ATLANTA, GEORGIA, USA

### **ABSTRACT**

AGILL Centre complementary technologies Improve sustainability and reduce the carbon footprint of the aviation industry. It has four verticals. Futuristic Fuel Combustion; Based management: Seals and Rotor dynamics: and Hybrid electric components

research uses: advanced manufacturing technologies to create complex geometries and quantitative reduction at low cost and weight.