CLEAN ENERGY RESEARCH INITIATIVE

Climate, Energy and Sustainable Technology Division Department of Science and Technology





R&D Areas Transform centralized fossil fuelled electric grid to **Smart Grids** renewable fed digitalized distributed electric grid **Clean Energy** Research

A flagship program to catalyze India's energy self-

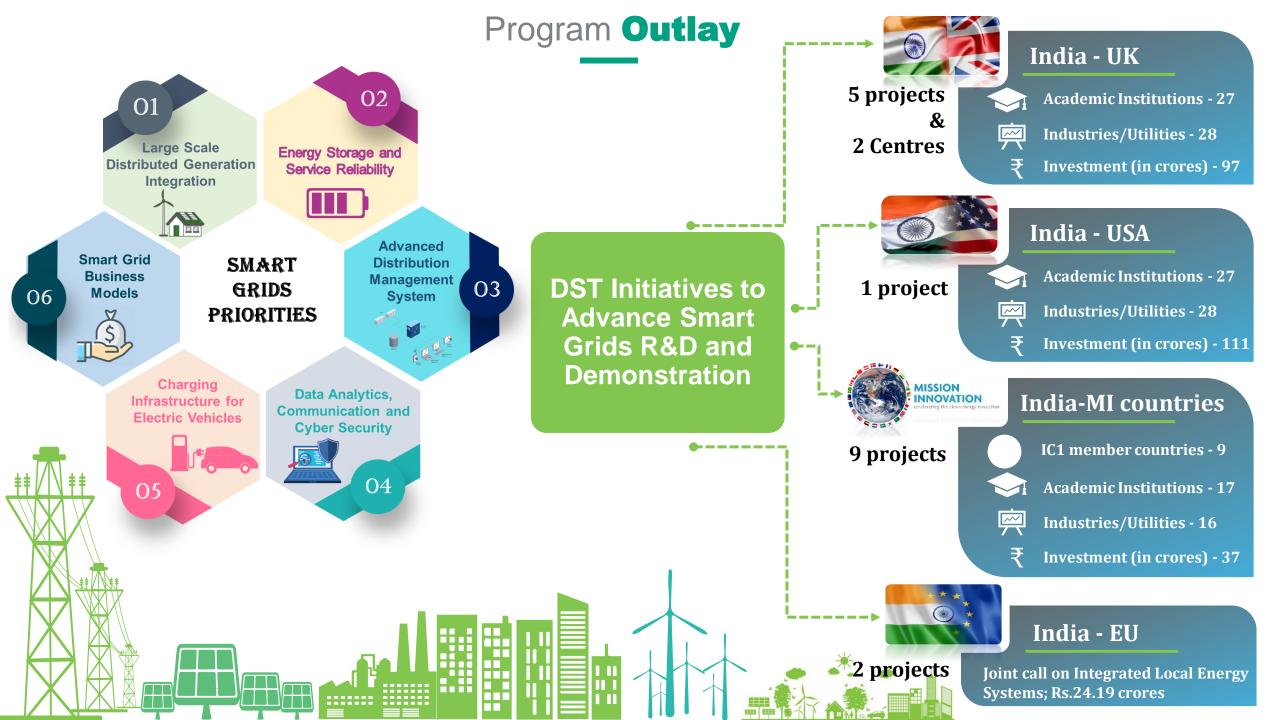
sufficiency in built environments

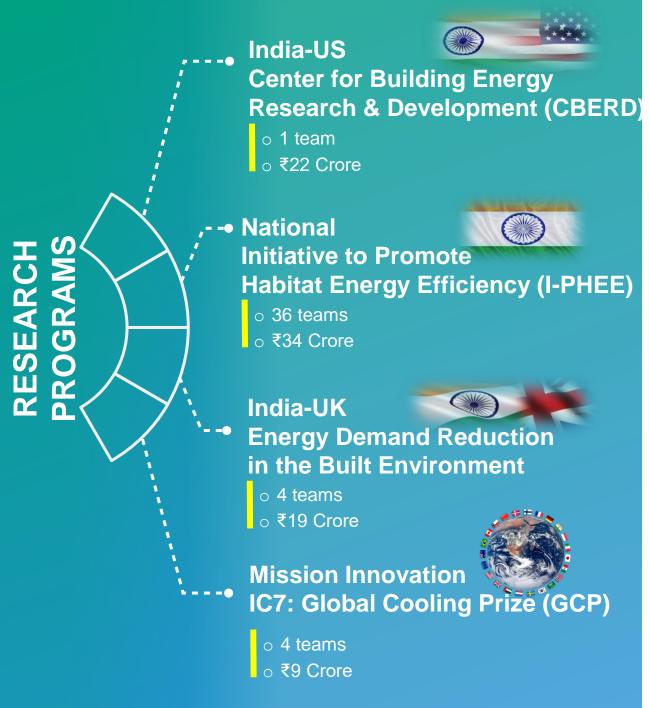
Building Energy

Efficiency



Initiative





India-US CBERD

TRL 3-4

Develop proof of concepts in heating and cooling technologies, ICT and building controls

2012

TRL 4-6

I-PHEE

Catalyze technology development & create R&D infrastructure for

Low carbon building materials

2015

2019

TRL 5-7

Low energy HVAC systems

ICT and building controls

Design Integration

6

India-UK Program

Scale up high impact technologies for energy demand reduction and synthesize multistakeholder engagement

2018

IC7: GCP

Harness global talent to develop market ready technologies for affordable low energy cooling of Indian buildings.

TRL 7





Dr. JBV Reddy
Department of Science and Technology, India
jbvreddy@nic.in