

## COUNTRY FACTSHEET

# INDIA

### WHAT ARE THE NATIONAL CIRCUMSTANCES THAT INFLUENCE DEEP DECARBONIZATION IN INDIA?

- Multiple simultaneous socio-economic transitions, regarding demography, income, urbanization, and industrialization.
- Domestic energy resources endowments, including: large coal reserves; low oil, gas and nuclear fuel reserves; plentiful solar and wind resources; reasonable hydro potential; limited CCS potential.
- Technologies and infrastructure, including: good on technology knowledge but low on innovations; low investments in high-tech assets; poor quality & quantity of infrastructure.
- Development vision and governance, including: sustainable development vision, top-down governance of decarbonization actions, missions approach for implementation with good focus but poor integration.

### WHAT ARE THE MOST PROMINENT STRATEGIES TO BE IMPLEMENTED FOR DEEP DECARBONIZATION IN INDIA?

- Aligning decarbonization and sustainable development actions with a focus on urban planning and design, industrialization towards energy

### CONTACT:

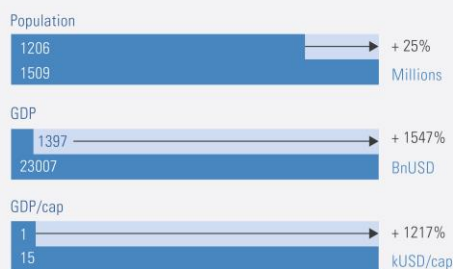
- Indian Institute of Management of Ahmedabad (IIMA)
- Faculty of Planning, CEPT University, Ahmedabad (CEPT)
- UNEP Risoe Center (URC), Denmark

efficient production, sustainable rural & agriculture transition, energy efficiency & eematerialization, evelopment of domestic low-carbon energy.

- Technology strategy on renewables, nuclear, CCS, energy efficiency, 3R.
- Infrastructure strategy through a combination of altering/reducing infrastructure demand, substitute infrastructures, and improve infrastructures.
- Investment and finance strategy: global climate finance, national carbon instruments, carbon revenue and linking markets (CO<sub>2</sub> as a commodity; input to oil & gas sector for enhanced oil recovery.

#### Illustrative pathway: IN - Sustainable\*

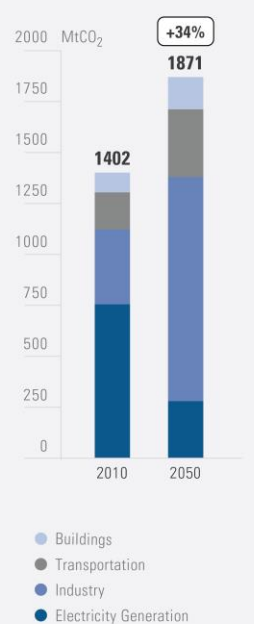
##### Development indicators from 2010 to 2050



##### Pillars of decarbonization from 2010 to 2050



##### Energy-related CO<sub>2</sub> Emissions



\*This illustrative pathway is one of the 2 pathways developed in the DDPP country report.