



Decarbonising Key Sectors in India

[Source: IE](#)

A recent study by **Centre for Social and Economic Progress (CSEP)** and [IMF](#) estimates India needs **USD 467 billion by 2030** to decarbonize its power, steel, cement, and road transport sectors, which contribute over 50% of CO₂ emissions.

Decarbonising Key Sectors

Sector	Additional Funding and Key Decarbonization Measures
Steel	USD 251 billion, Carbon Capture & Storage (CCS) , shift to green hydrogen, energy efficiency
Cement	USD 141 billion, CCS, alternative fuels, clinker substitution.
Power (Electricity)	USD 47 billion, Renewable expansion (solar, wind), grid modernization.
Road Transport	USD 18 billion, Electric vehicles, biofuels, charging infrastructure.

Decarbonisation & India's Target

- **Decarbonisation:** Systematic reduction of CO₂ emissions to mitigate global warming and achieve net-zero emissions.
 - Decarbonising steel, cement, and power sectors alone could mitigate about 6.9 billion tonnes of CO₂ by 2030.
- **India's Decarbonization Targets:** At **COP26 in Glasgow** (2021), India presented its **Panchamrit** climate action plan, which includes five key targets:
 - Achieving **500 GW** of non-fossil fuel energy capacity by 2030.
 - Meeting **50%** of energy needs from **renewables** by 2030.
 - Reducing **CO₂ emissions** by **1 billion tons** by 2030.
 - Cutting **carbon intensity** by **45%** by 2030.
 - Targeting **Net-Zero emissions** by 2070.
- **Progress:**
 - Achieved its **non-fossil fuel capacity target** in **2024-five years ahead of schedule (2030)**, with **242.78 GW (around 50%)** of its 484.82 GW total installed capacity from non-fossil sources.
 - India pledged to create **2.5-3 billion tonnes** of carbon sinks by 2030. By 2021, it had already achieved **2.29 billion tonnes**.
 - India aimed for a **45% reduction** in emissions intensity by 2030, and had already achieved **36%** by 2020.

Read More: [Decarbonising India's Logistics Sector](#)

