



India Energy ID Card

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Country Description

Quick introduction



Country: India

Population: 1.38 billion

GDP: \$2.871 Trillion

Electricity

Total installed capacity of electricity (2020): **386.9 GW** (CEA) – as of July 2021.

Total electricity consumption (2019-20): ~1,291,494 GWh (CEA).

Average electricity price:

0.077 \$/kWh (household price) and **0.116 \$/kWh** (business price).

Average electrification share: **99.6%** (IEA's electricity access rate)

Gas

Total gas production: 1,133,364 MMcF

Total gas consumption: 1,753,143 MMcF

Energy

Energy mix (renewables excluding hydro vs. fossil fuels vs. gas):

3,5% vs. 84,8% vs. 6,3% (BP)

Evolution of energy demand (in the last five years):

+18% (28.77 EJ to 34.06 EJ) (BP)

Renewable energy

Share of renewables in final energy consumption (BP: Primary energy consumption): **4.5% (excluding hydro)**

Total investments in clean energy: \$11.1 billion (2018)

Environment

Total CO2 emissions: **Eq2,302.3** million tonnes of CO2 (BP)

GHG emissions growth rate: **2% (2019**)

Electric mobility

Regional sources

Electric charging stations: 1800 (March 2020)

Number of electric vehicles: 400,000 (2019)

Type of electric vehicles: **BEV, PHEV and HEV**

Market growth: **30%** (2018-2030 evolution)

Network

Regional sources

Total length: **445,496 ckt. km (July 2021)**

Transmission network:

Tension: **11kV** distribution network

Age: Qualitative analysis

Energy Players

Power: NTPC Limited, Adani Group, Tata Power, JSW

Energy, Torrent Power etc.

Renewable energy: Tata Power Solar Systems Ltd., Suzlon,

ReNew Power Ventures etc.

Oil and Gas: Reliance Industries Ltd., Oil and Natural Gas Corporation (ONGC) and Indian Oil Corporation Ltd. (IOCL)

Country Highlights

Policy support:

- In June 2021, the Indian Renewable Energy Development Agency Ltd. (IREDA) invited bids from solar module manufacturers, coming in at INR 4,500 crore (\$616.76 million). This set up solar manufacturing units under the central government's Production Link Incentive scheme (PLI).
- The power sector now allows 100% foreign directed investment (FDI), boosting overall FDI funds.
- Schemes such as Deen Dayal Upadhyaya Gram
 Jyoti Yojana (DDUGJY) and the Integrated Power
 Development Scheme (IPDS) are expected to augment
 electrification across the country.

Growth in investments, according to the India Brand Equity Foundation (IBEF):

- Non-conventional energy sectors received an FDI inflow of \$10.02 billion between April 2000 and March 2021.
- By 2028, India anticipates investments in renewable energy worth \$500 billion.

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