



Govt Approves ₹12,000 Crore Green Energy Corridor

- By Ankit Agrawal

Govt approves Rs 12,000-cr Green Energy Corridor Phase-II

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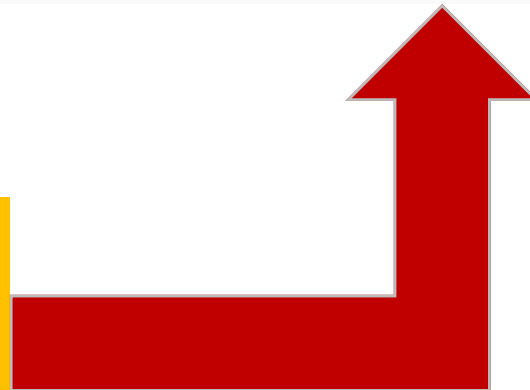
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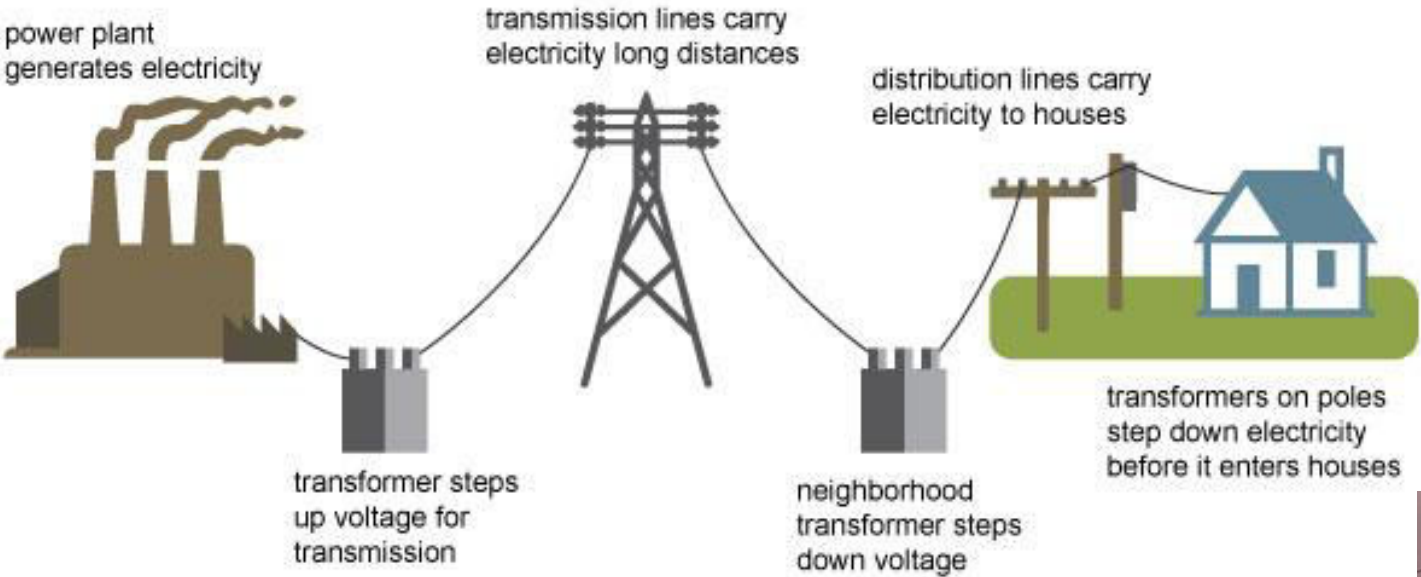


WHAT IS GREEN ENERGY CORRIDOR?

The Green Energy Corridor Project **aims at synchronizing electricity produced from renewable sources**, such as solar and wind, **with conventional power stations in the grid.**

For evacuation of large-scale renewable energy, Intra State Transmission System **(InSTS) project was sanctioned by the Ministry in 2015-16.**

Electricity generation, transmission, and distribution



Source: Adapted from National Energy Education Development Project (public domain)



WHAT HAS HAPPENED?

The government on Thursday **cleared a ₹12,031 crore plan to set up infrastructure to transmit electricity from renewable energy projects,**

As it seeks to boost the output from green sources and meet half of the nation's energy requirement from them by 2030.

The **investment approval by** the Cabinet Committee on Economic Affairs **(CCEA) is for the second phase of the green energy corridor,**

Which will help supply 20 gigawatts (GW) of renewable energy to the national grid from Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh.

INDIA'S COMMITMENTS AT COP-26

The project is expected **to help India meet the climate commitments** it made at the **COP-26 summit in Glasgow**.

At the **November summit**, Prime Minister Narendra **Modi pledged** to increase the country's **non-fossil fuel power generation capacity to 500GW** and meet **50% of its energy requirements** from renewable sources **by the end of this decade**.

The **Central Electricity Authority estimates** **India's power requirement will rise to 817GW by 2030**.

ABOUT THE 2ND PHASE OF GREEN ENERGY CORRIDOR

The second phase of the green energy corridor project will involve adding approximately **10,750 circuit km (ckm) of transmission lines** and **27,500 mega volt-amperes (MVA) transformation capacity of substations.**

“This will promote ecologically sustainable growth and contribute to the long term energy security of the country,”

Union power and new and renewable energy minister Raj Kumar Singh said in a tweet.



Narendra Modi ✓

@narendramodi



Today's CCEA decision adds strength to India's efforts of achieving the target of 450 GW in the renewable energy sector. Other benefits include a boost to energy security and environment friendly growth.

pib.gov.in/PressReleasePa...

7:14 PM · Jan 6, 2022 · Twitter Web App

HOW IT IS USEFUL?

The corridor is expected **to help ensure that the huge injection of electricity into the national grid** from intermittent energy sources such as **solar and wind doesn't threaten the grid.**

The **corridor forms an important component of the plan to maintain the grid frequency within the 49.90-50.05 Hz (hertz) band.**

An automatic generation control recently made operational sends signals to power plants every four seconds to maintain frequency, ensuring the power grid's reliability.

The **project** will receive central financial assistance of **₹3,970.34 crore**, or a **third of the project cost**.

The **transmission systems** will be created over a period of five **years** through **31 March 2026**, the government said.

ABOUT 1ST PHASE

The **first phase** of the green energy corridor is **under implementation in** Andhra, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu.

It **will help supply around 24GW** of **renewable energy by 2022.**

The first phase **will add 9,700km of transmission lines** and **22,600MVA capacity of substations** at an **estimated cost of ₹10,141.68 crore**, the statement said.

Recently, Union ministries of power and new and renewable energy approved 23 inter-state transmission system projects at an **estimated cost of ₹15,893 crore.**

India has achieved its nationally determined contributions target with a **total non-fossil based** installed energy capacity of **157.32GW**, which is **40.1%** of the total installed electricity capacity.

Of this, solar, wind and hydropower account for **48.55GW**, **40.03GW** and **51.34GW**, respectively.

India's nuclear energy-based installed electricity capacity **stands at 6.78GW.**

State	Lines Target (ckm)	Line constructed (ckm)	Substations Target (MVA)	Substations Charged (MVA)
Tamil Nadu	1068	1058	2250	1850
Rajasthan	1054	984	1915	1915
Andhra Pradesh	1073	696	2157	635
Himachal Pradesh	502	456	937	353
Gujarat	1908	1320	7980	3660
Karnataka	618	565	2702	2490
Madhya Pradesh	2773	2714	4748	4365
Maharashtra	771	612	--	--
Total	9767	8405	22689	15268

FDI IN GREEN ENERGY

The interest in India's green energy economy continues to grow with the sector receiving foreign direct investment (FDI) of **\$7.27 billion from 2014-15 up to June 2021.**

Of this **\$797.21 million was received during 2020-21.**

Q. Which among the following is correct regarding Coal?

1. Peat is the first stage in the formation of coal from wood.
2. Anthracite is very hard coal and has a shining black luster.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) None of the above



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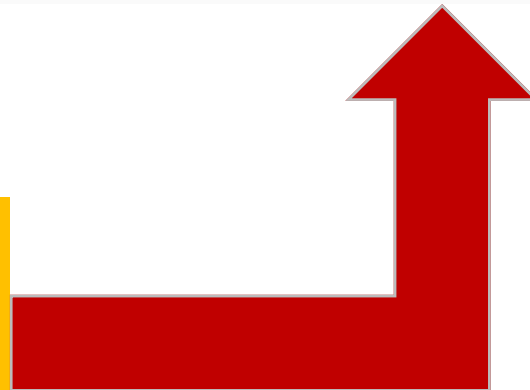
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