



# Luminous Invests in Solar Module Facility in Uttarakhand

## Why in News?

Recently, **Luminous Power Technologies** inaugurated a **250 MW solar module** manufacturing facility in **Rudrapur**, Uttarakhand.

- Luminous also launched an **immersive Experience Center** at the plant to showcase its solar ecosystem approach integrating connected energy solutions.

## Key Points

- The fully automated **10-acre plant** built with an initial investment of Rs 1.2 billion is **expandable up to 1 GW capacity**.
  - The launch marks a strategic shift for Luminous from being just a maker of solar inverters and batteries to now manufacturing solar modules.
  - The company also claims to be the only Indian firm that can design and build complete solar power generation systems.
- The facility will produce **polycrystalline, monocrystalline, N-type, and TOPCon solar panels** with adaptability ranging from 5BB (BusBars) to 16BB configurations **for residential, commercial, and agricultural needs**.
- The company has **partnered with Australia's University of New South Wales for solar module technology development**.
- The launch aligns with the government's '**Make in India' mission** and the recently announced '**PM Surya Ghar: Muft Bijli Yojana**' solar program.
  - Originally intended to **fully subsidise installation of 1-3 Kilowatt (KW) solar systems in 1 crore households**, the scheme now offers **up to 60% coverage of costs**, with households required to cover the remainder, albeit with accessible loans.
  - The scheme envisaged to generate **up to 300 units of free electricity every month** which would translate to benefits of ₹15,000-18,000 annually for households.
- According to the recently released "**State of Solar PV Manufacturing in India 2024**" report by Mercom India Research, India added 20.8 GW of solar modules and 3.2 GW of solar cell capacity in the calendar year 2023.

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