

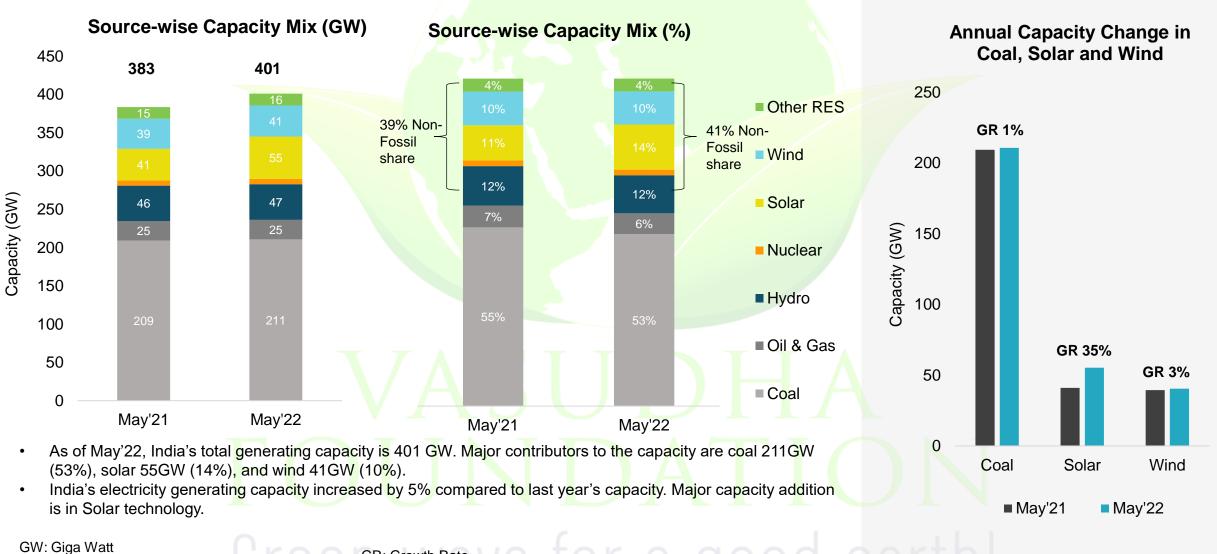
India's Power Sector Overview



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India's Electricity Capacity Mix

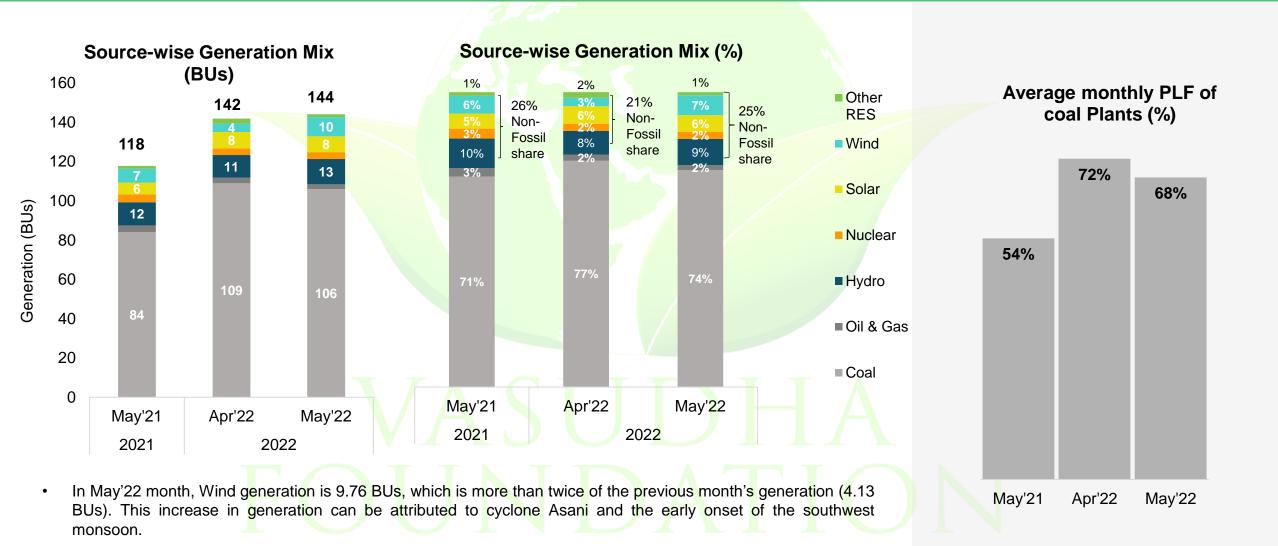


RES: Renewable Energy Sources

GR: Growth Rate

Source: CEA

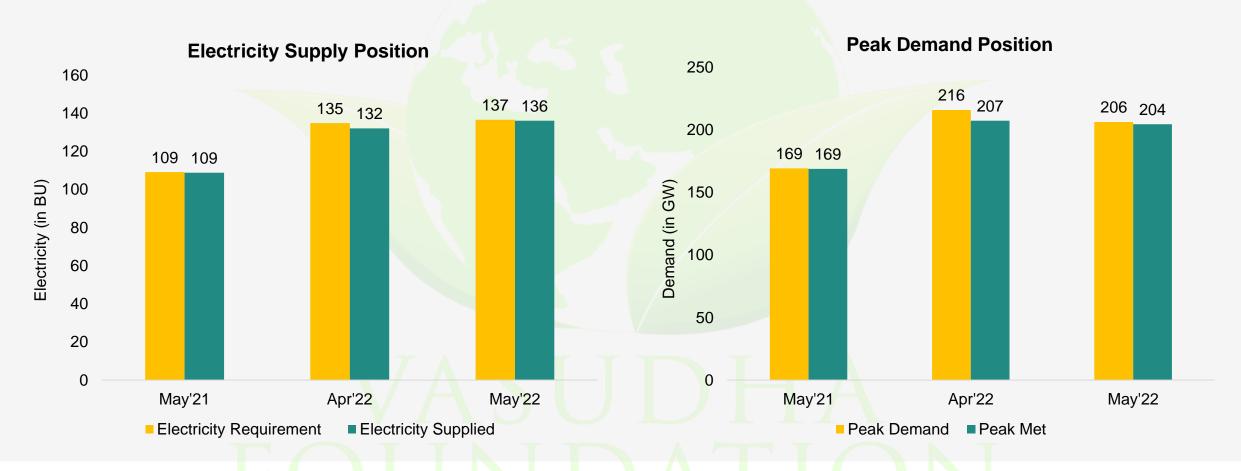
India's Electricity Generation Mix



PLF: Plant Load Factor BU: Billion Units

Source: CEA

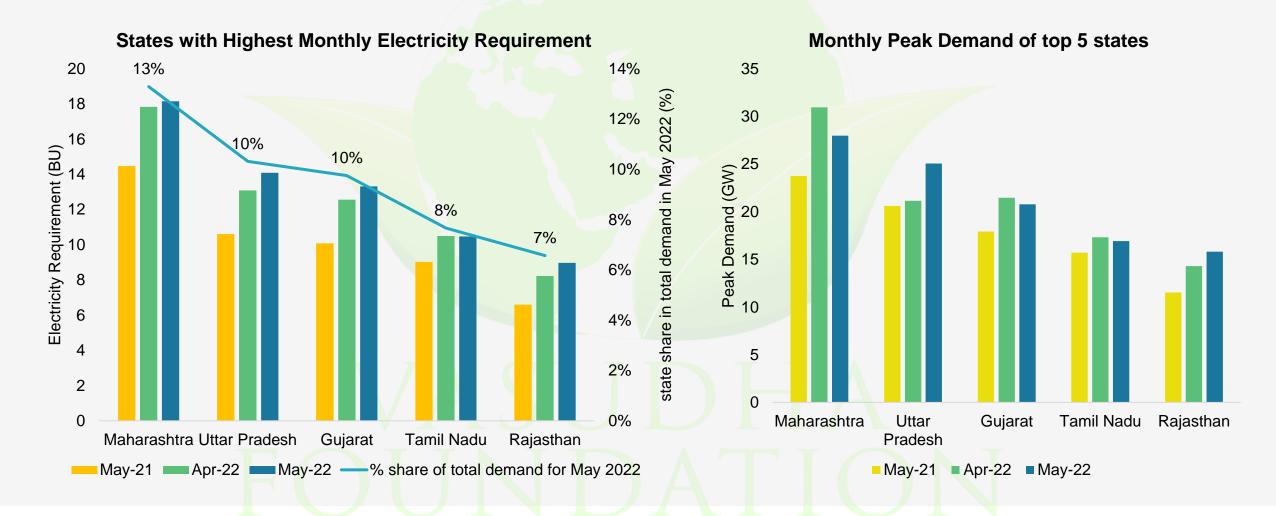
India's Electricity Demand and Supply Position



- National electricity demand in May'22 has increased by 26% as compared to demand in May'21.
- National peak electricity demand in May'22 has increased by 22% as compared to peak demand in May'21.

Source: CEA and POSCO

Monthly Electricity Demand of the top 5 states



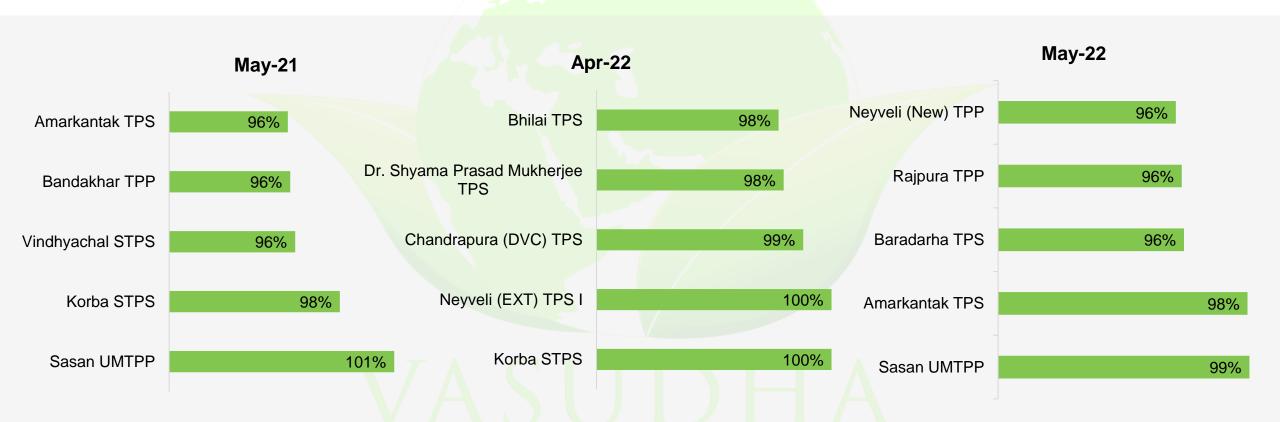
The top 5 states collectively account for a 48% share of India's total electricity requirement (137 BU).

Source: Vasudha Analysis

Retirement of Coal Power Plant

| SI. No. | Particular | FY 2017-22 | FY 2022-27 |
|---------|---|------------|---------------------|
| 1 | Targeted Capacity for retirement as per NEP 2018 (in MW) | 22716 | 25572 |
| 2 | Capacity retired (in MW) as per CEA letters during the period | 7094 | 1090 |
| 3 | Additional Capacity (in MW) retired as per CEA letters (Which are not mentioned in the CEA's target list) | 2160 | |
| 4 | Total Retired Capacity during the period FY 2017 - FY 2022 as per CEA Letter (in MW) | 10344 | |
| | TUUNDATI | | |
| | | | A, Vasudha Analysis |

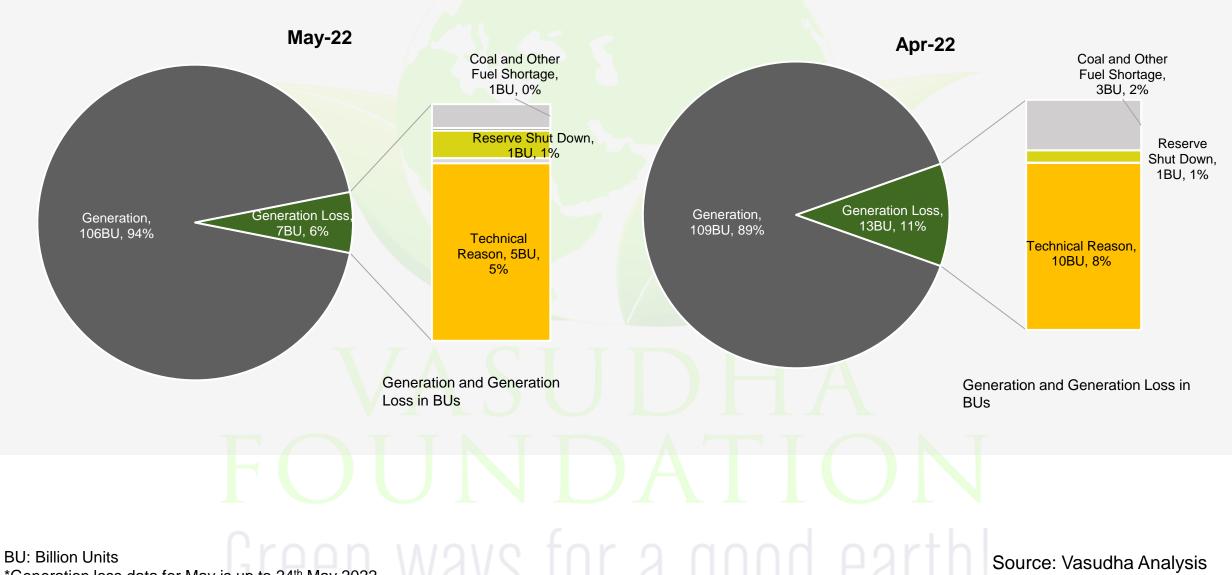
Top 5 (Monthly) Performing Coal Power Plants



The top 5 coal power plants' PLF are considered on the basis of capacity equal to or above 210 MW.

Source: Vasudha Analysis

Coal Generation Loss Reasons for Forced Outages



*Generation loss data for May is up to 24th May 2022

Key Highlights or Announcements of May 2022

The government of India has directed the blending of imported coal with domestic coal to mitigate the coal shortages. Many coal power plants are operating at low PLF due to coal shortages. <u>MoP, May 2022</u>

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Ministry of Power has revised the scheme for flexibility in generating and scheduling thermal/hydro power stations through bundling with renewable energy and storage power. It also covers the replacement of both thermal/ hydropower with renewable energy with a battery storage energy system (30 GW). This revision in the scheme would reduce the coal consumption by 34.7 million tonnes and reduce CO2e by 60.2 million tonnes. MoP April 2022 and MoP May 2022