

# India's Energy Overview



Half-Yearly Highlights of 2022-23





# Contents



India's Electricity Capacity Mix



India's Electricity Generation Mix



Coal Generation Loss and Reasons for Forced Outages



India's Electricity Demand & Supply Position



Half-Yearly Coal Statistics

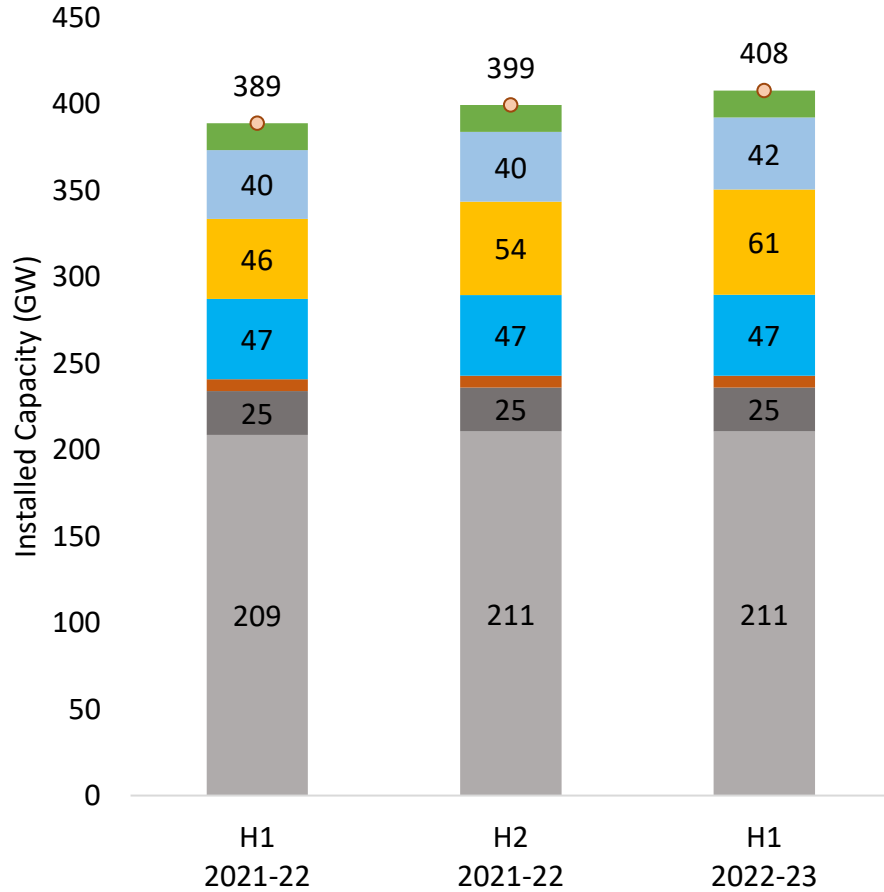


Half-Yearly Petroleum Products Market Scenario

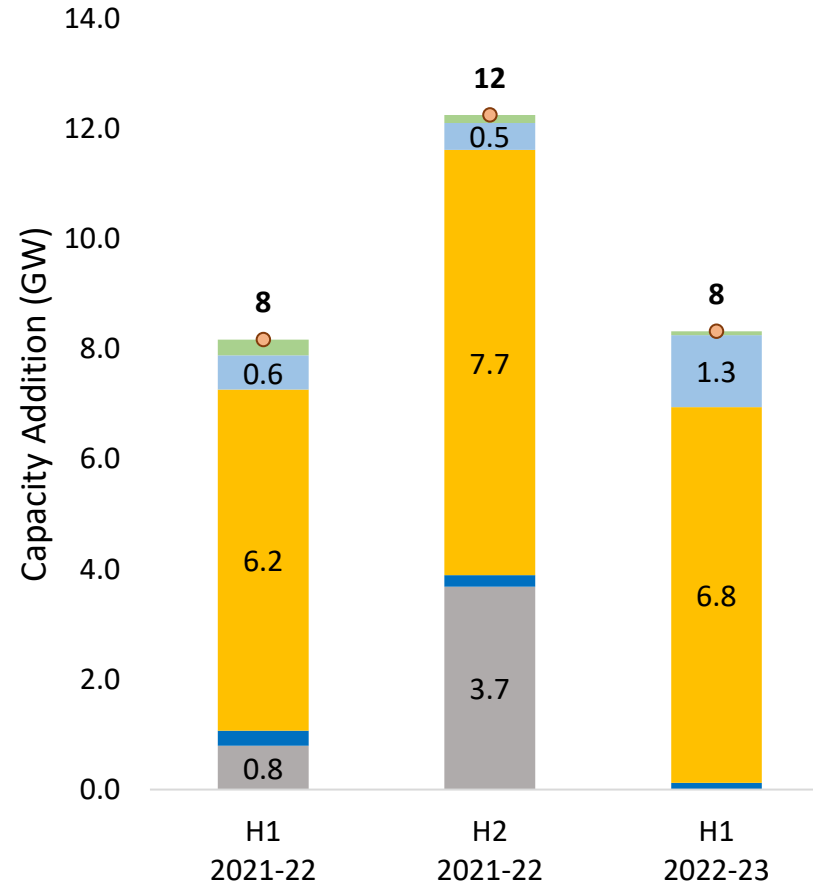


# India's Electricity Capacity Mix

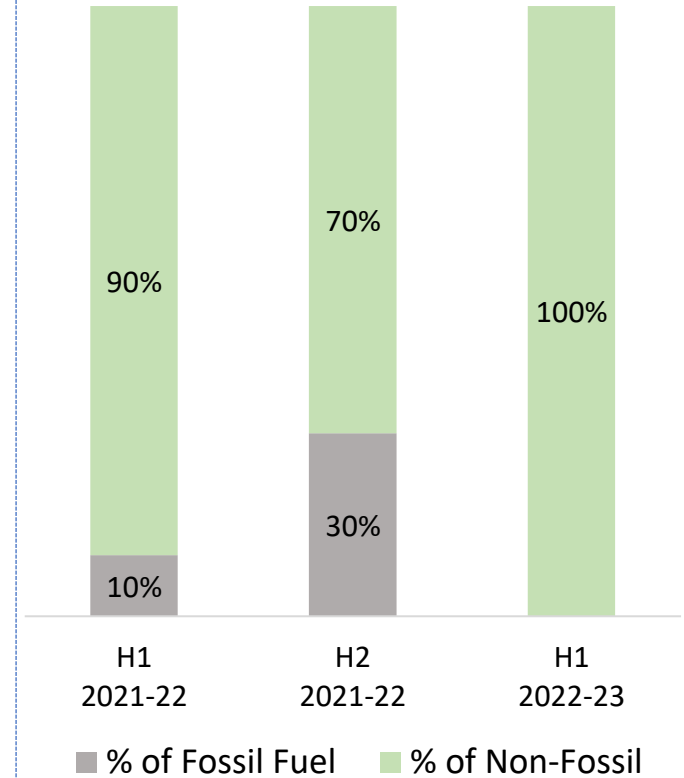
### Source-wise Installed Capacity



### Source-wise Capacity Addition (GW)



### Share of Fossil and Non-Fossil Fuel Capacity Addition

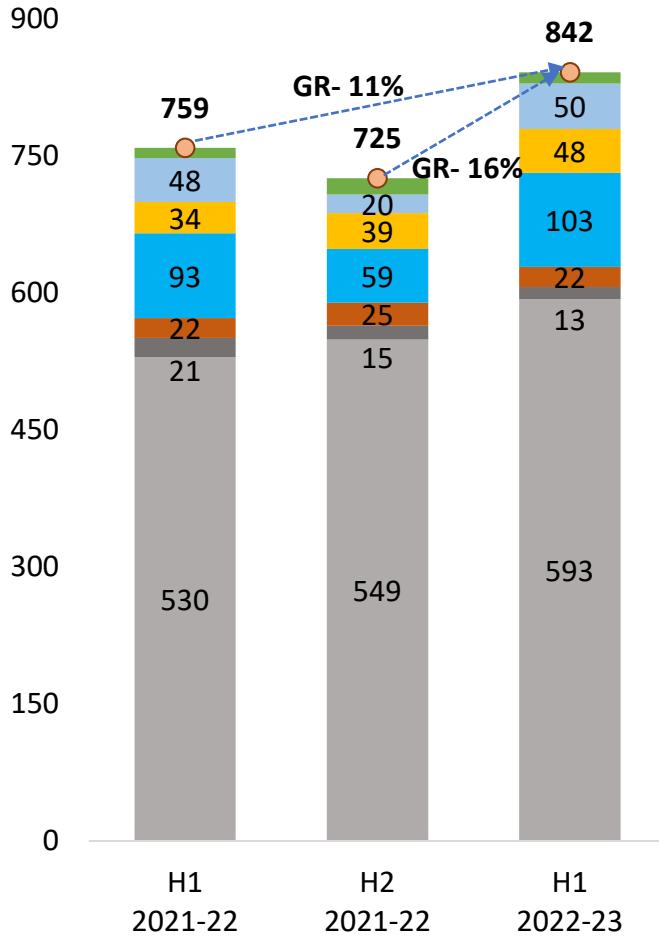


■ Coal ■ Gas & Diesel ■ Nuclear ■ Hydro ■ Solar ■ Wind ■ Other RES ○ Total

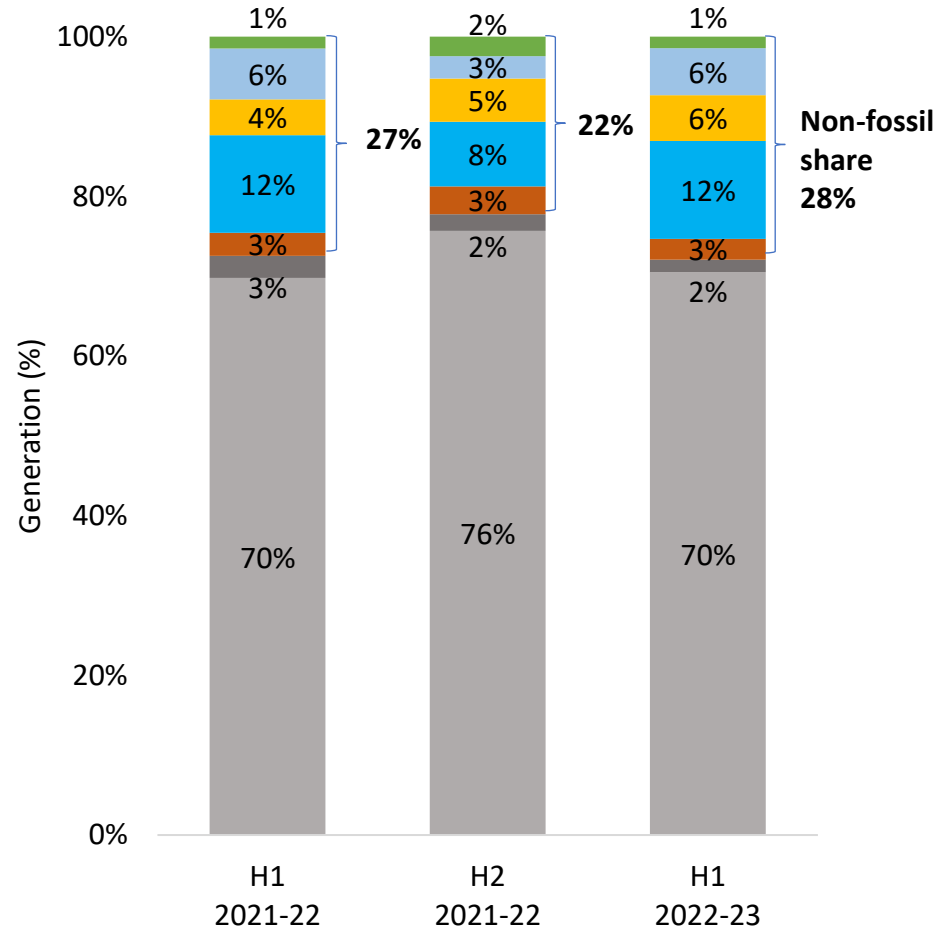


# India's Electricity Generation Mix

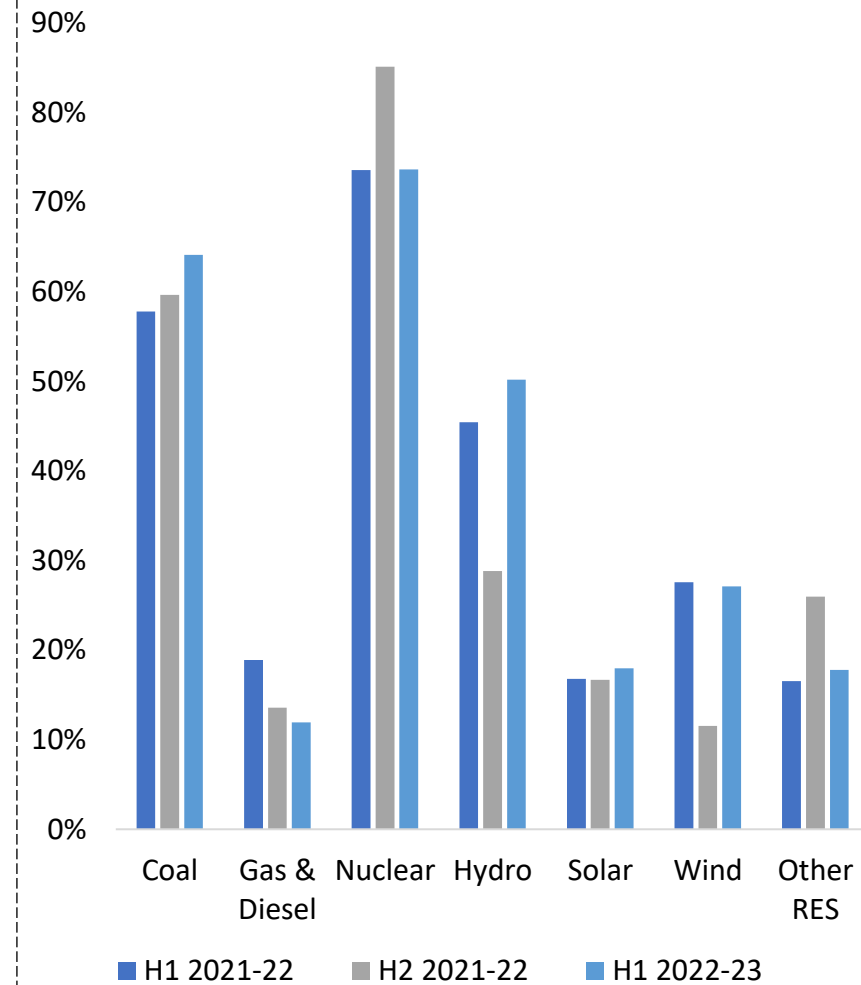
### Source-wise Generation Mix (BU)



### Source-wise Generation Mix (%)



### Source-wise PLF/ CUF (%)



■ Coal ■ Gas & Diesel ■ Nuclear ■ Hydro ■ Solar ■ Wind ■ Other RES ■ Total

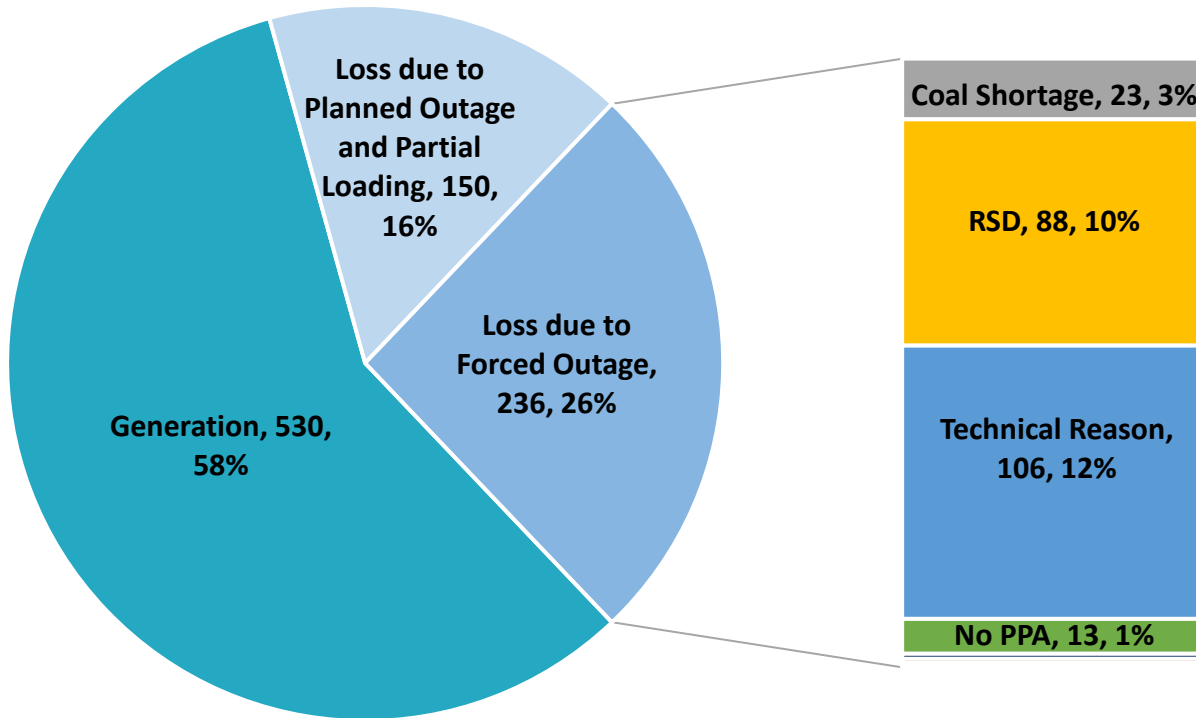
Sources: CEA  
 PLF: Plant Load Factor, CUF- Capacity Utilization Factor, BU- Billion Units, GR: Growth Rate  
 H1- April to September, H2- October to March



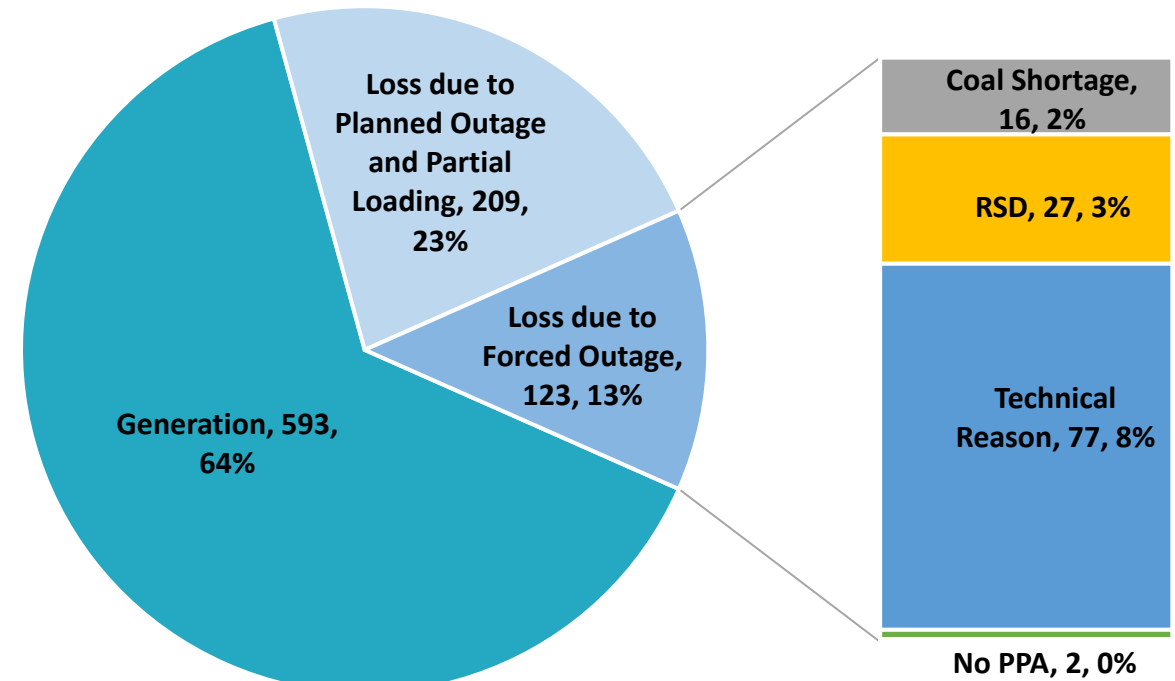


# Coal Generation Loss and Reasons for Forced Outages

## H1 2021-22



## H1 2022-23

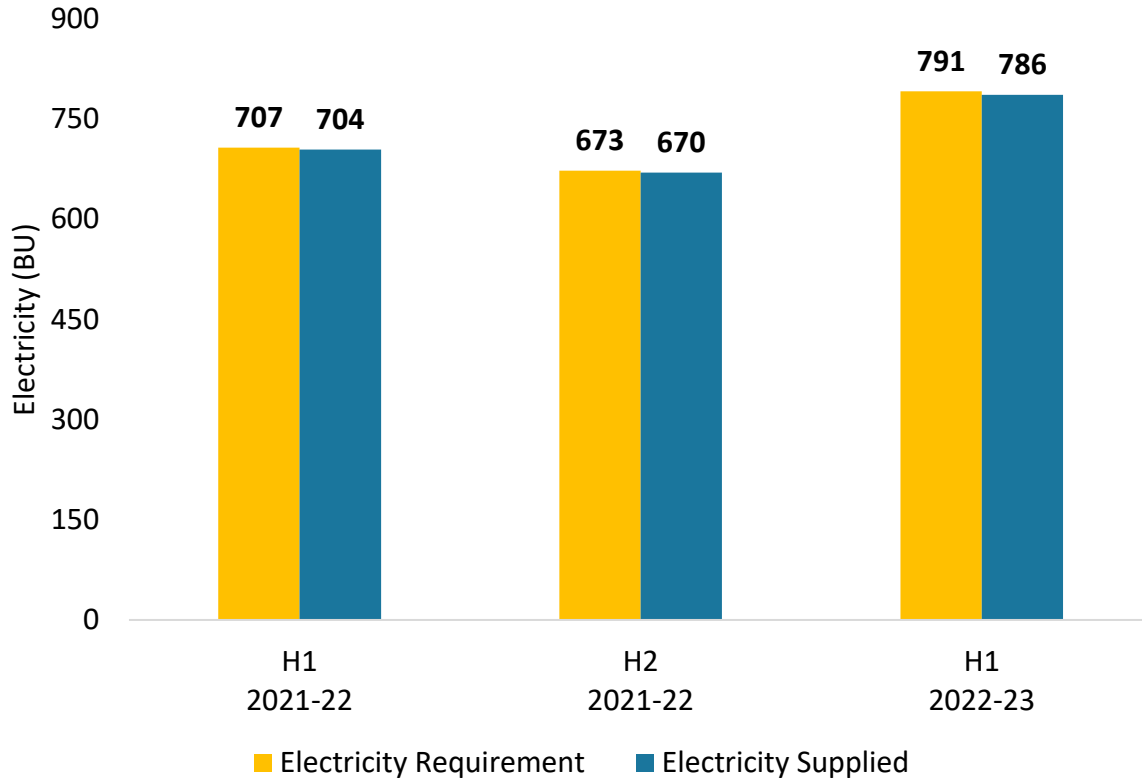


Generation and Generation Loss in BU

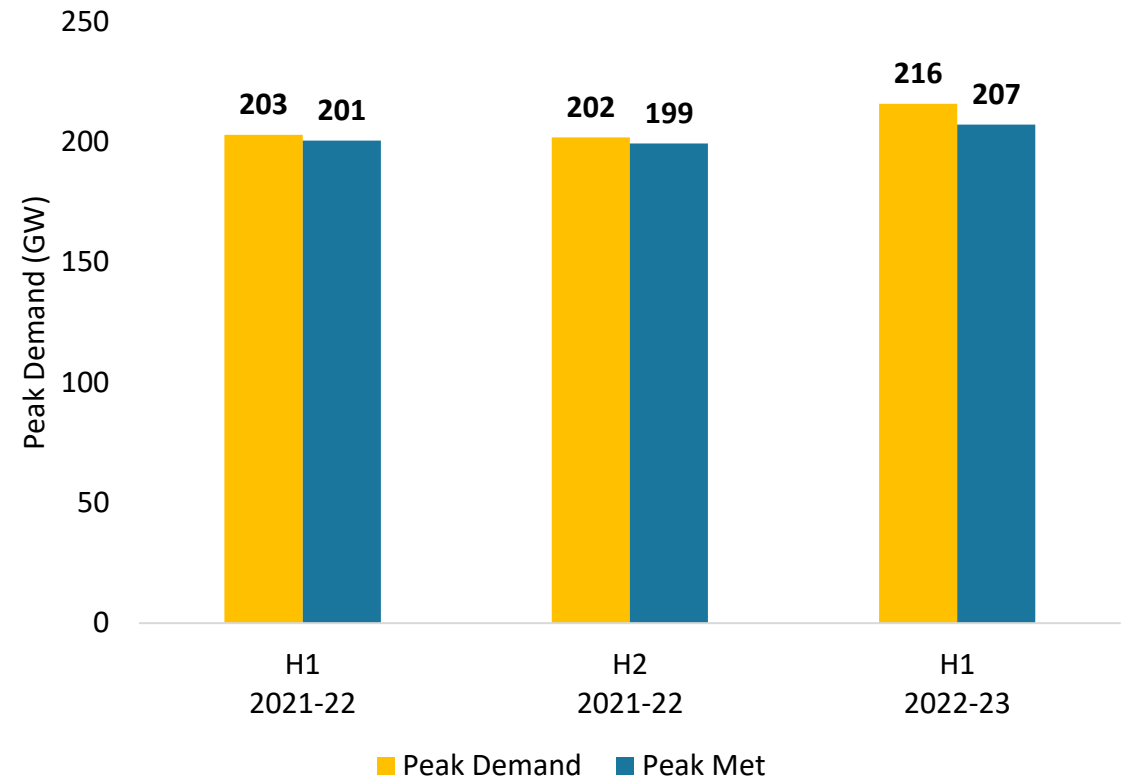


# India's Electricity Demand & Supply Position

## Electricity Supply Position



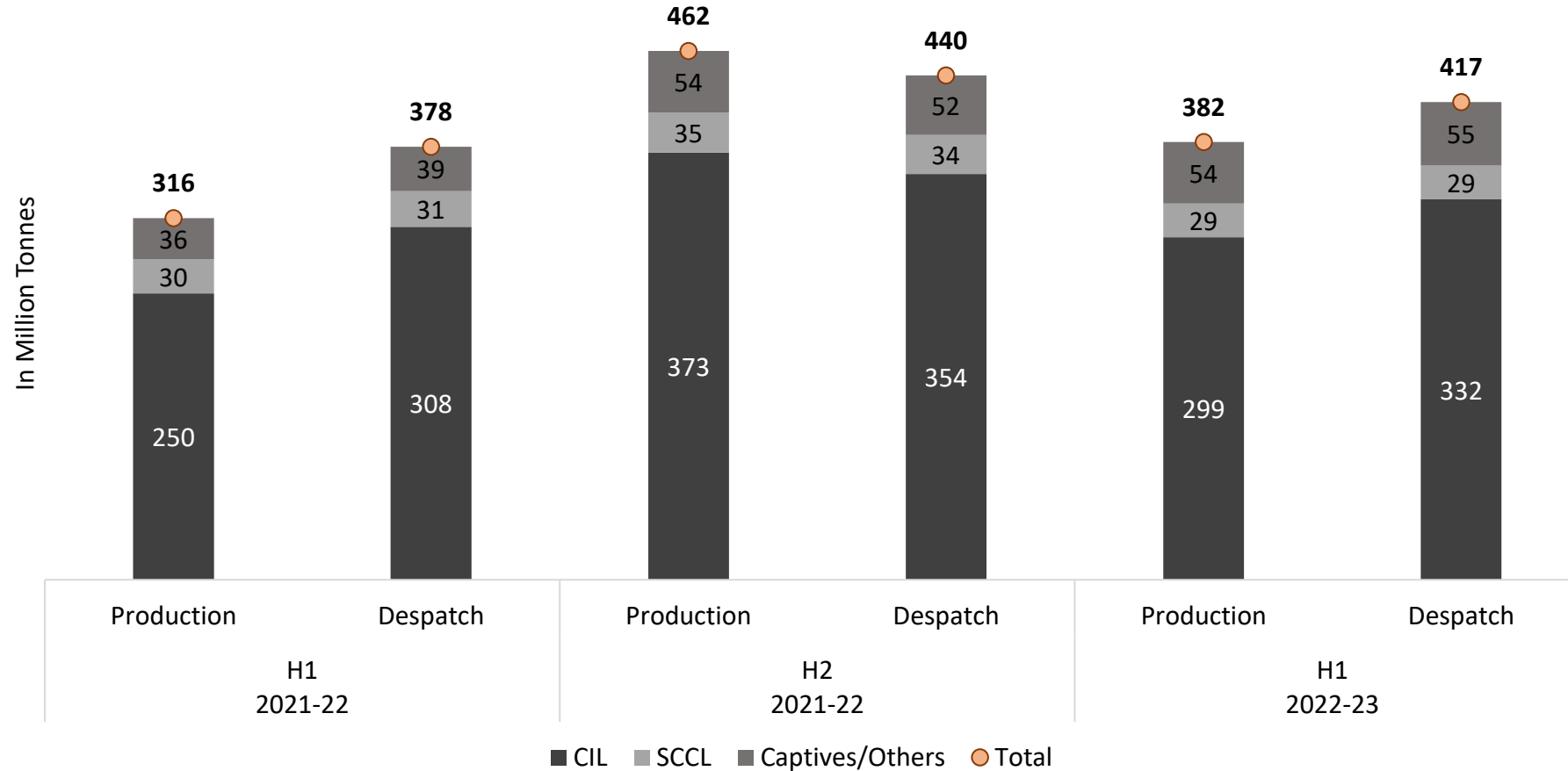
## Peak Demand Position



- National electricity demand in H1 2022-23 increased by 12% compared to the demand in H1 2021-22.
- National peak electricity demand in H1 2022-23 has increased by 6% compared to the peak demand in H1 2021-22.
- The peak demand deficit in H1 2022-23 has increased to 4.0% from 1.2% in H1 2021-22.



# Half-Yearly Coal Statistics

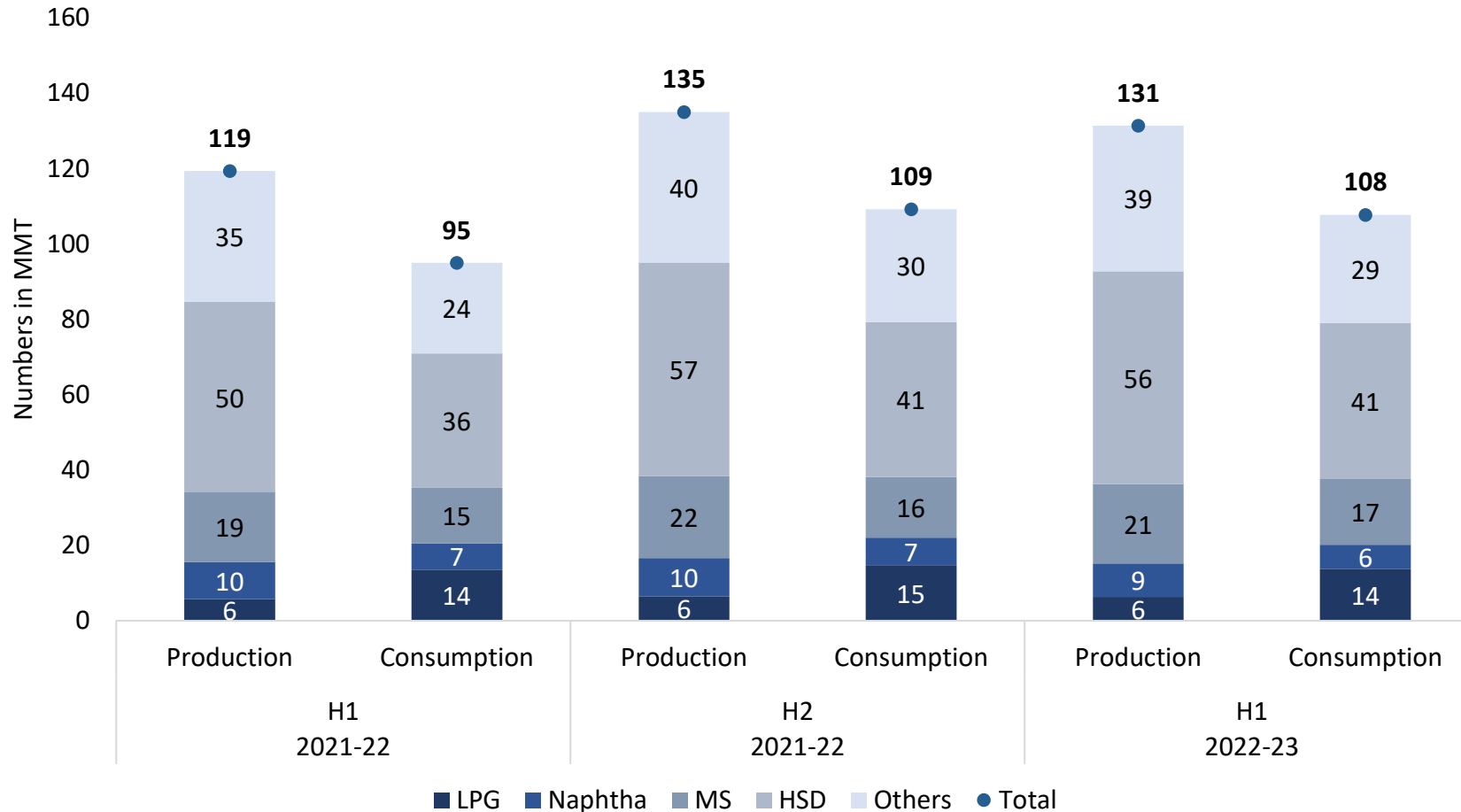


India's coal production increased by 21% in H1 2022-23 (382 MT) compared to H1 2021-22 (316MT). Similarly, the coal despatch increased by 10% in H1 2022-23 compared to the same period in 2021-22.



# Half-Yearly Petroleum Products Market Scenario (1/2)

## Petroleum Product-wise Production & Consumption (MMT)



Others include ATF, SKO, LDO, Lubes, FO, LSHS, Bitumen, pet coke, and others.

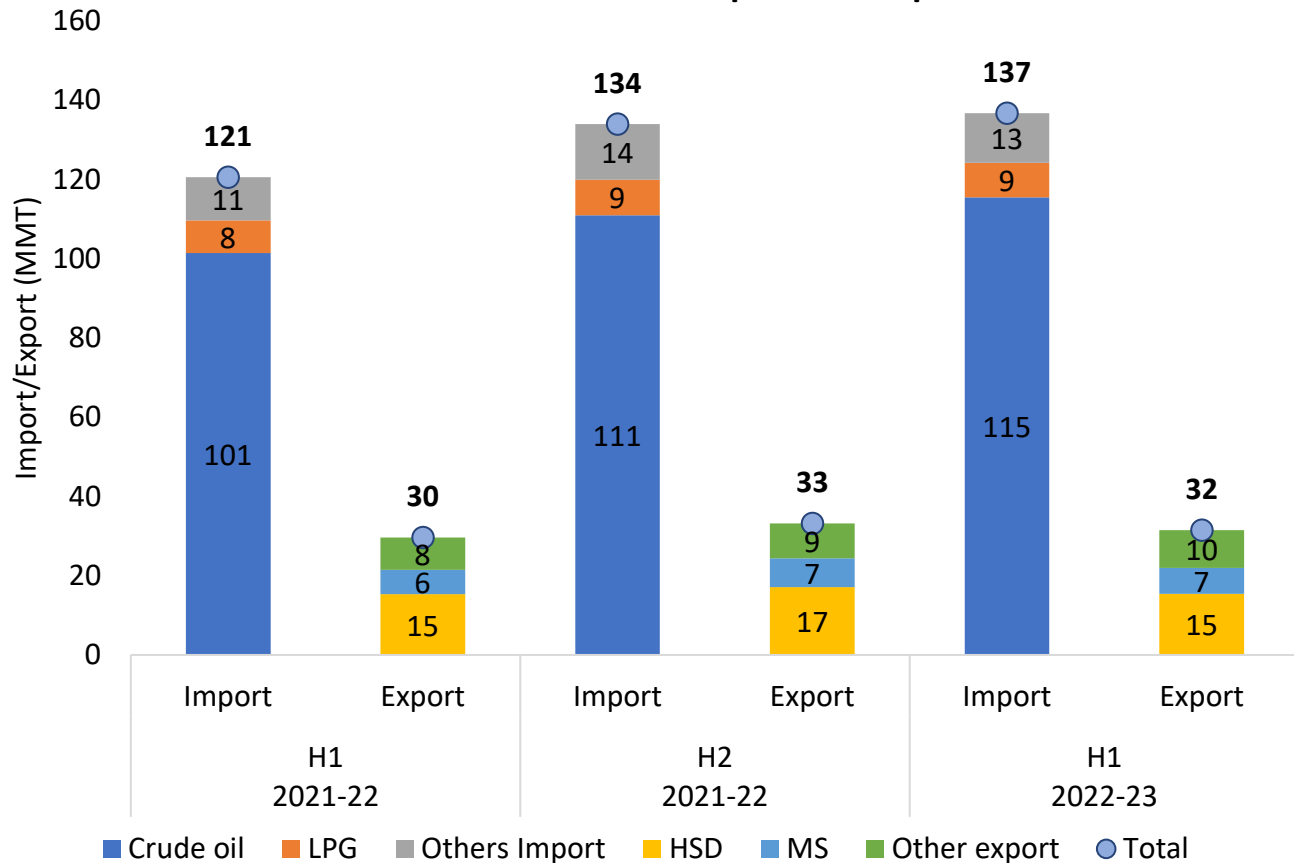
- The production of petroleum products in H1 2022-23 increased by 10% compared to production in H1 2021-22.
- Further, the consumption of petroleum products in H1 2022-23 increased by 13% compared to consumption in H1 2021-22.



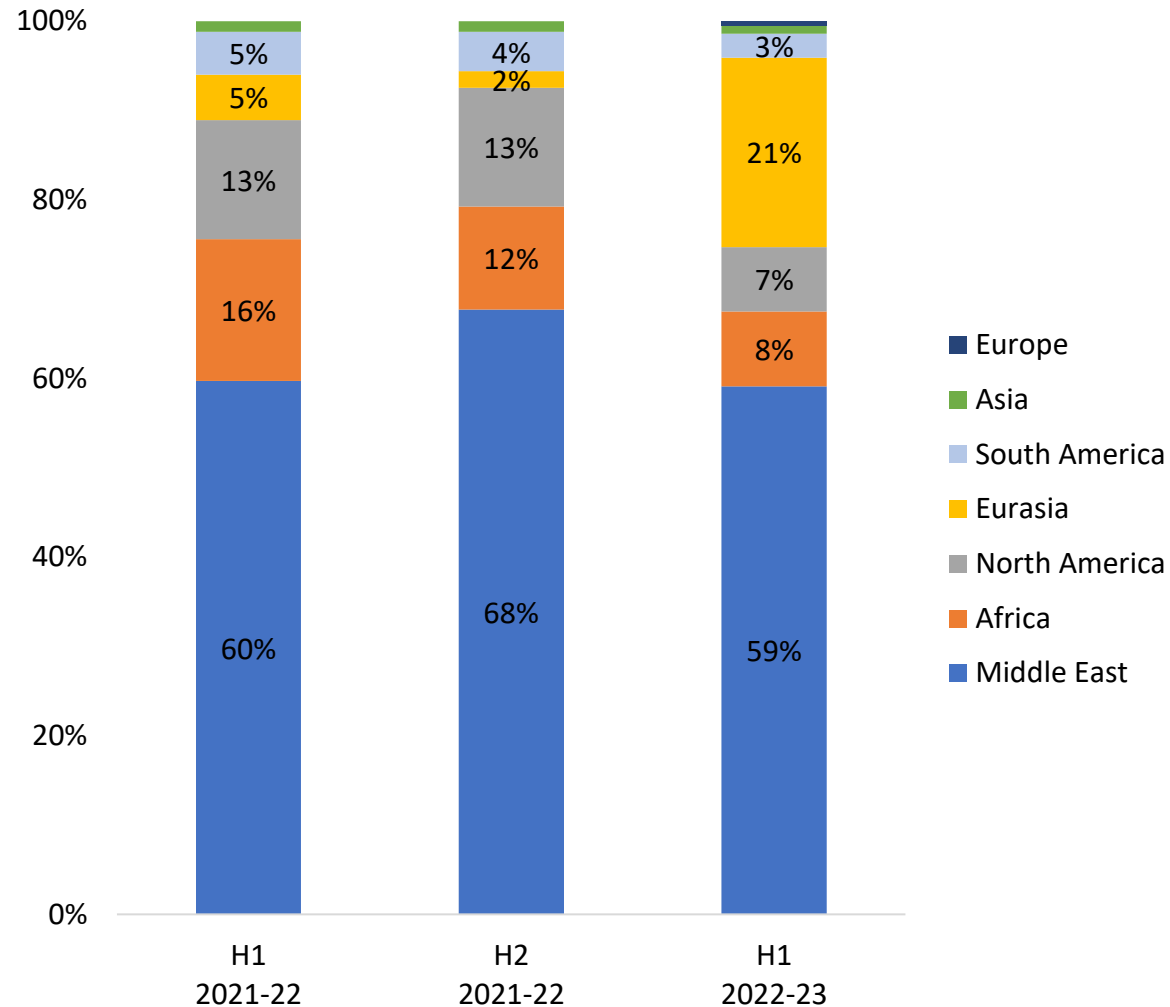


# Monthly Petroleum Products Market Scenario (2/2)

### Petroleum Product-wise Import and Export



### Region-wise Crude Oil Import Share (%)



\*Other Imports include Naphtha, MS, ATF, SKO, HSD, LDO, Lubes, FO, Bitumen, pet coke, and Others.

\*Other Exports include LPG, Naphtha, ATF, SKO, Lubes, FO, Bitumen, pet coke, and Others.



VASUDHA  
FOUNDATION  
Green ways for a good earth!

## Vasudha Foundation

CISRS House, 14 Jangpura B, Mathura Road,  
New Delhi - 110014, India  
Tel/fax: + 91-11-2437-3680



Visit us at <http://www.vasudha-foundation.org/>

For more information about Vasudha Foundation, email us at  
[info@vasudhaindia.org](mailto:info@vasudhaindia.org)