



# SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



COIMBATORE-35

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A+ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

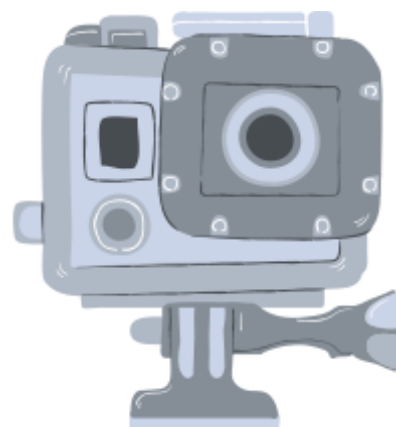
UNIT 1

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## Conventional Grid

## Power Scenario in India

19EEE308 – Smart Grids  
III year / VI Semester





# INTRODUCTION

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## *Power: The Building Block of Economy*

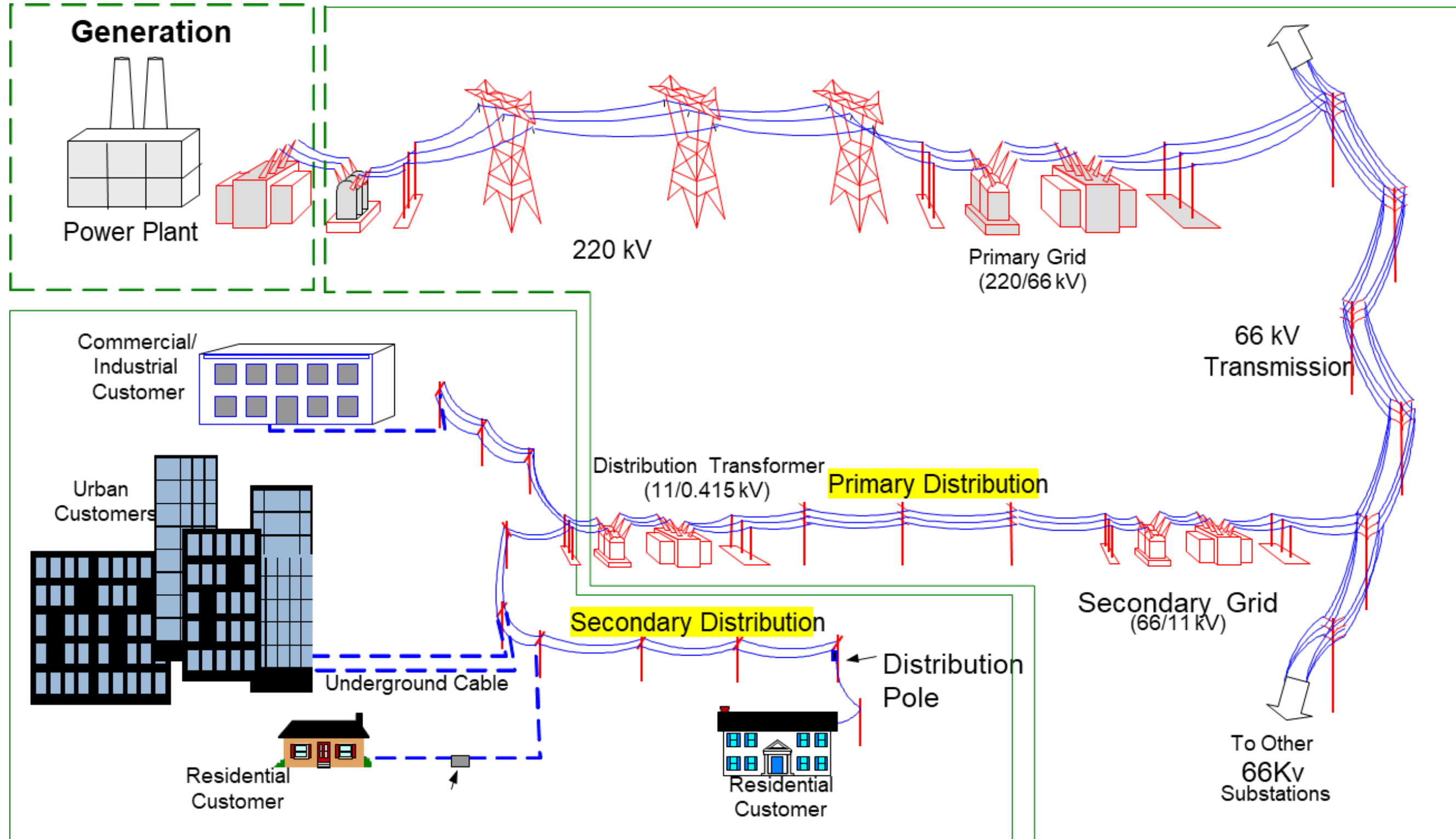
Electricity- the most imp. Infrastructural input in the dev. & growth of economy.

Consumption of electricity- imp. Index of advancement of the country & standard of living.

Economic growth rate of 8-9% on a sustained basis is necessary for us to catch up with the rest of the world.

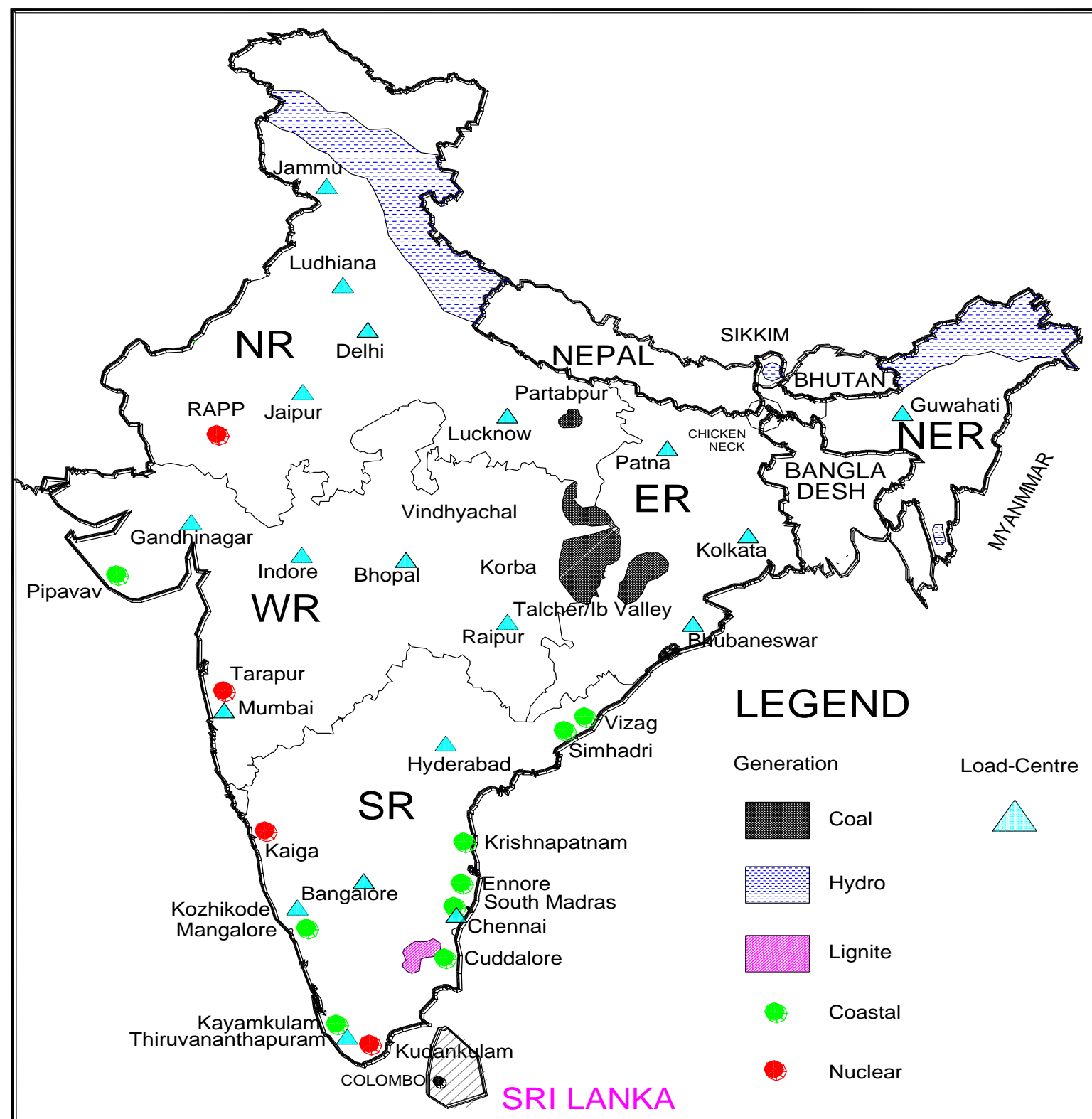


# Structure of Power System





# Energy Resource Map Of India



- Hydro potential in North east and upper part of Northern Region
- Coal reserves mainly in Eastern Region
- Distribution of energy resources and consumption centres are extremely unbalanced
- Necessitate power transfer over long distances

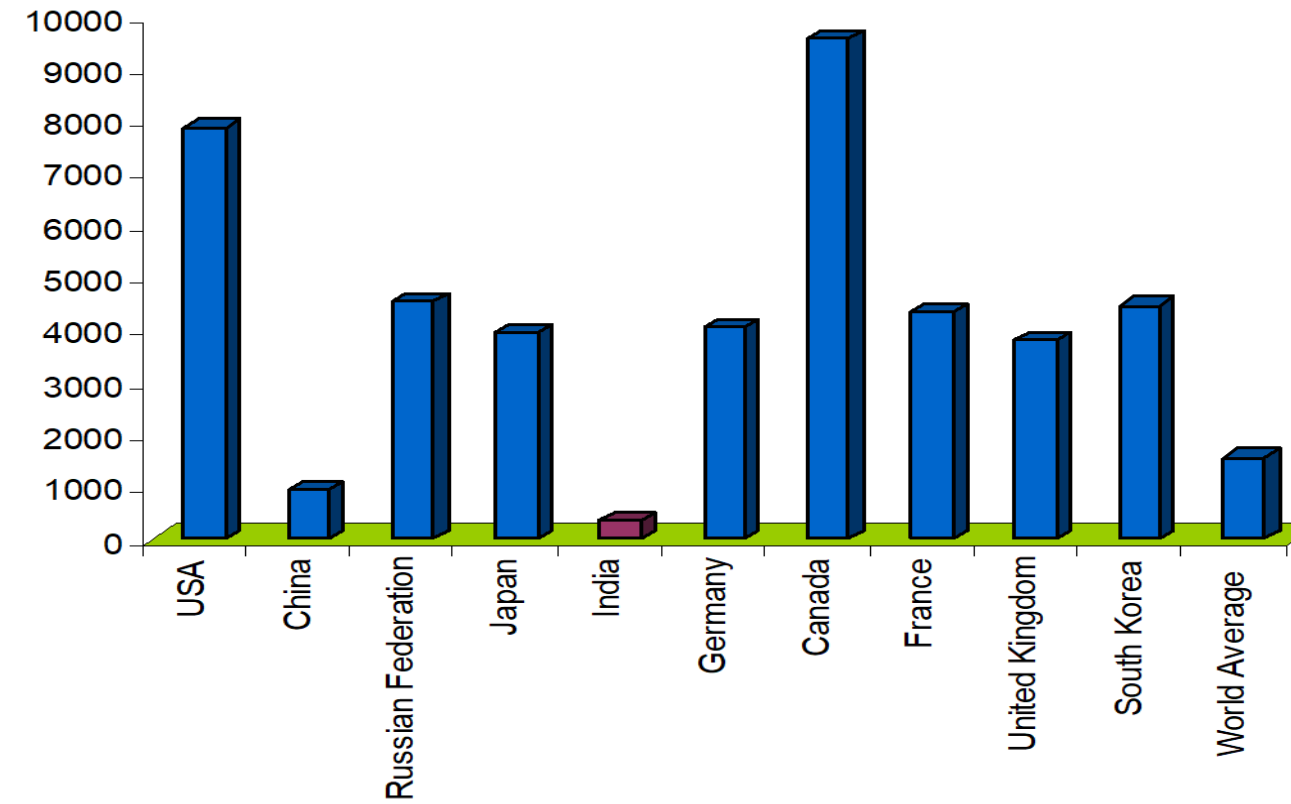


# Current Scenario in India

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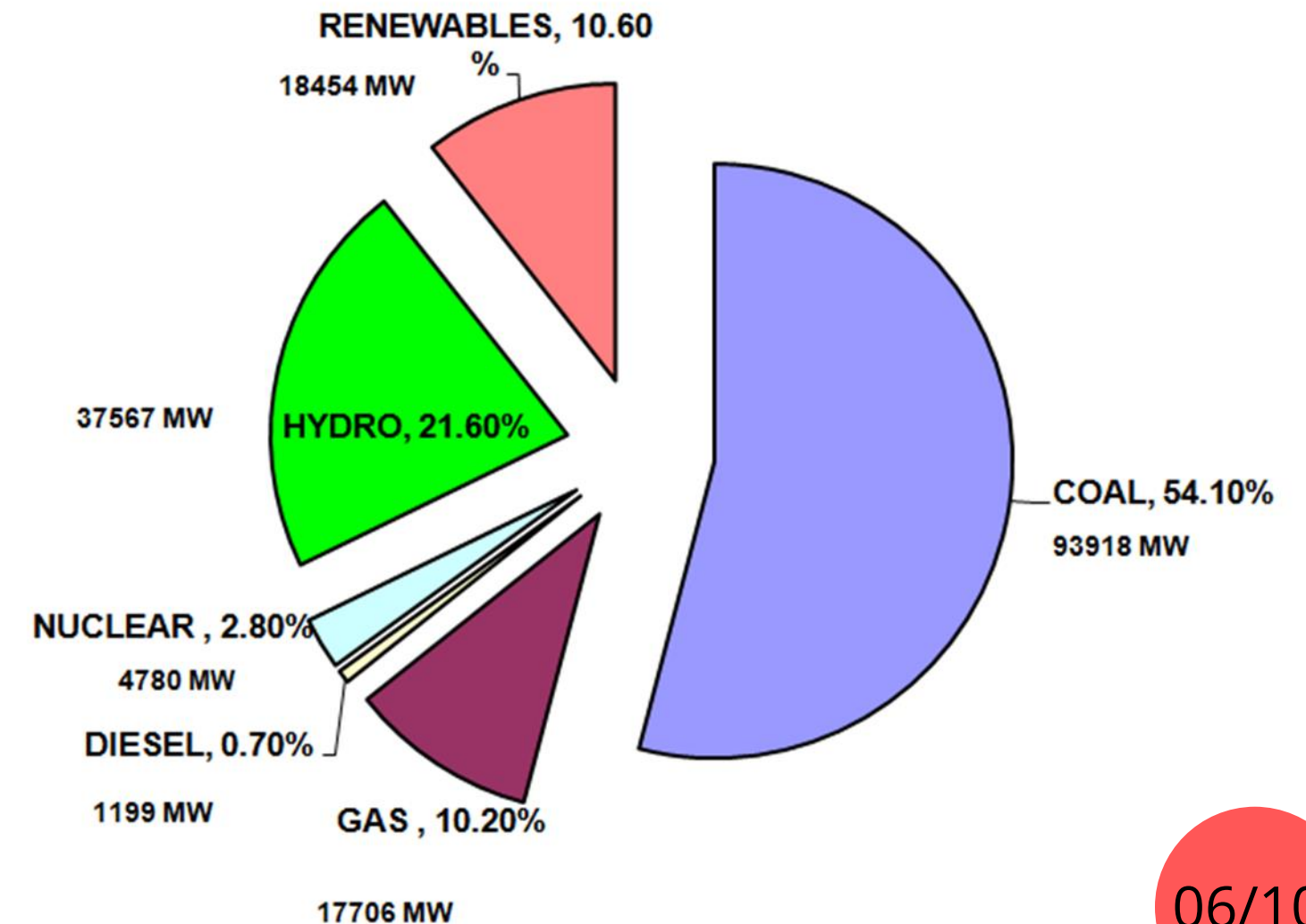


Power Installed Capacity	: 1,73,635 MW
Energy Generation ( <i>p.a.</i> )	: 788355 MU
Supply Demand Gap	: 9.8 % Peak
	: 8.5% Average



# Per Capita Energy Consumption

## ALL INDIA INSTALLED GENERATION CAPACITY





# ASSESSMENT

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Dear student,

Quiz is posted in your Google class room

Allotted time for quiz is 5 min

No of Questions is 10





**KEEP  
LEARNING..  
Thank u**

SEE YOU IN NEXT CLASS