



STUDENTS OF  
DR.MGR EDUCATIONAL AND RESEARCH INSTITUTE

# PROBLEM STATEMENT



Location Selection Based on Spatial Demand and Risk Minimization  
Peak Demand Synchronization Challenge  
Environmental and Safety Impact Analysis  
Public Acceptance

## Slow Nuclear Expansion due to acquiring necessary clearances and land acquisition issues.

India operates 22 nuclear reactors and aims to increase its nuclear capacity to 13.08 GWe by 2029 with seven new reactors. this growth is hindered by regulatory challenges, land acquisition issues, and reliance on international nuclear agreements, exacerbated by sanctions following India's nuclear tests.



INDIA TODAY  
INDIA BRIEFING  
CAPS INDIA

# OUR OBJECTIVE

In order to demonstrate the good effect of the release

A 4D proposal for the efficient and reliable placement and operation of a nuclear power plant (NPP) in India involves the following:

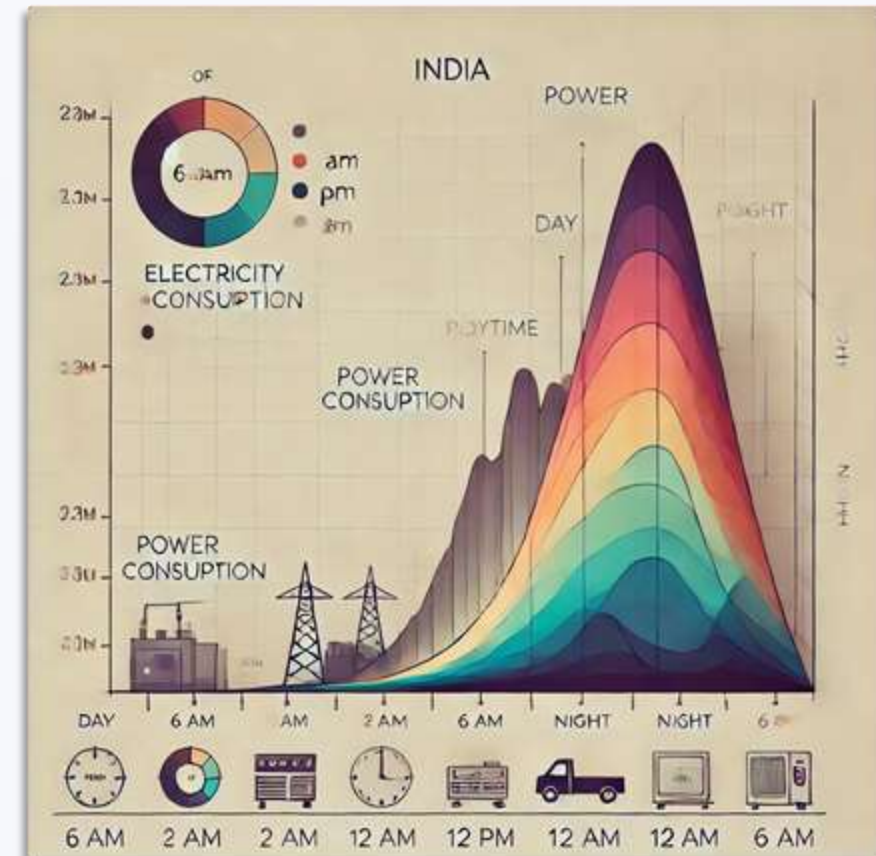
3D Component (Spatial Arrangement)

+1D Component (Time Frame)



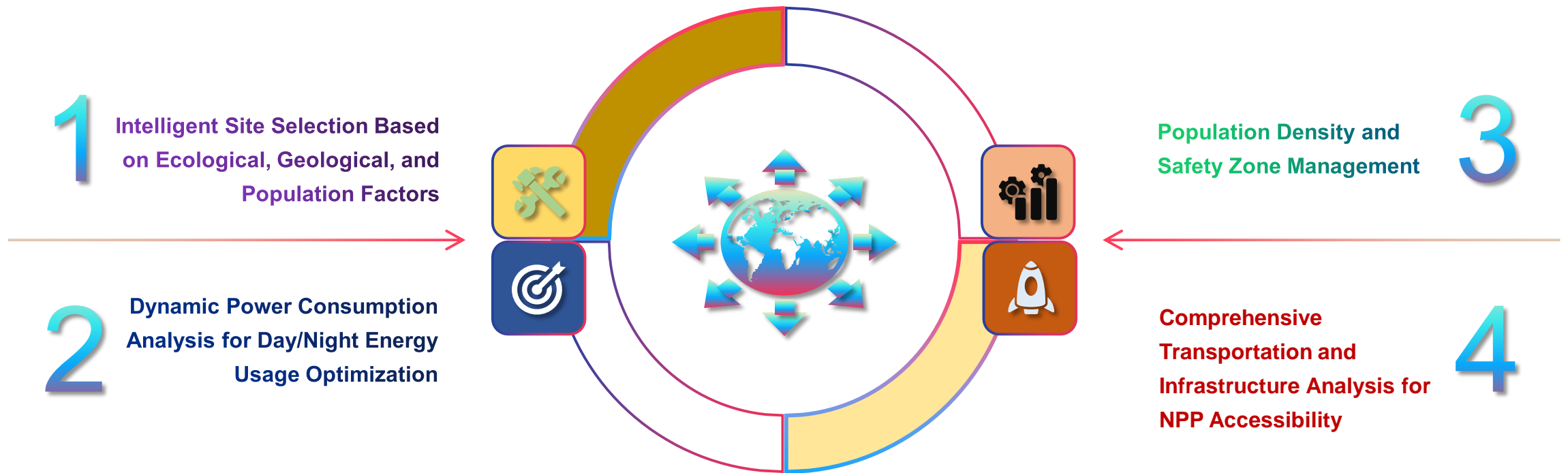
AIM TO CREATE A WEBSITE WHICH MONITERS & ANALYSIS THE DATA BASED TO THE SECTOR OF,

- ☐ Ecological and Geological Sustainability
- ☐ Population Density
- ☐ Water Proximity
- ☐ Daytime and nighttime power consumption, along with population density checks, is essential to accurately predict the amount of power required to meet demand across different periods.



# UNIQUE VALUE PROPOSITION

Technological innovation





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- 07 Affordable and Clean Energy
- 13 Climate Action
- 09 Industry, Innovation, and Infrastructure
- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION





# THANKYOU !

so much for your interest and attention.