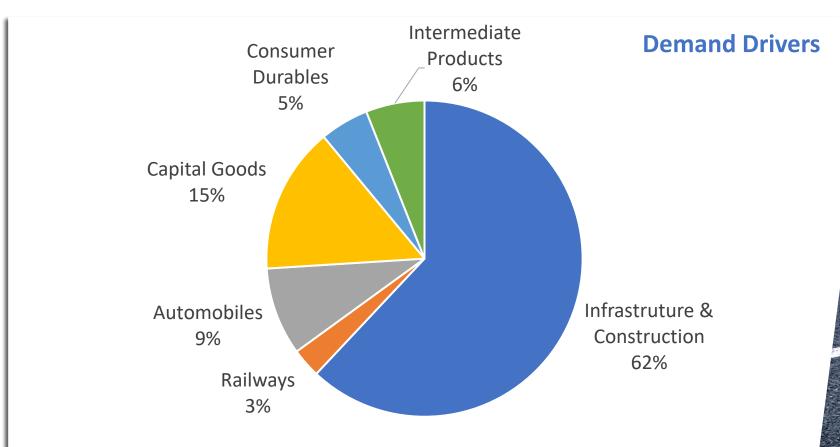
STEEL IN GREEN INFRASTRUCTURE OPPORTUNITIES & CHALLENGES IN INDIA'S TRANSITION



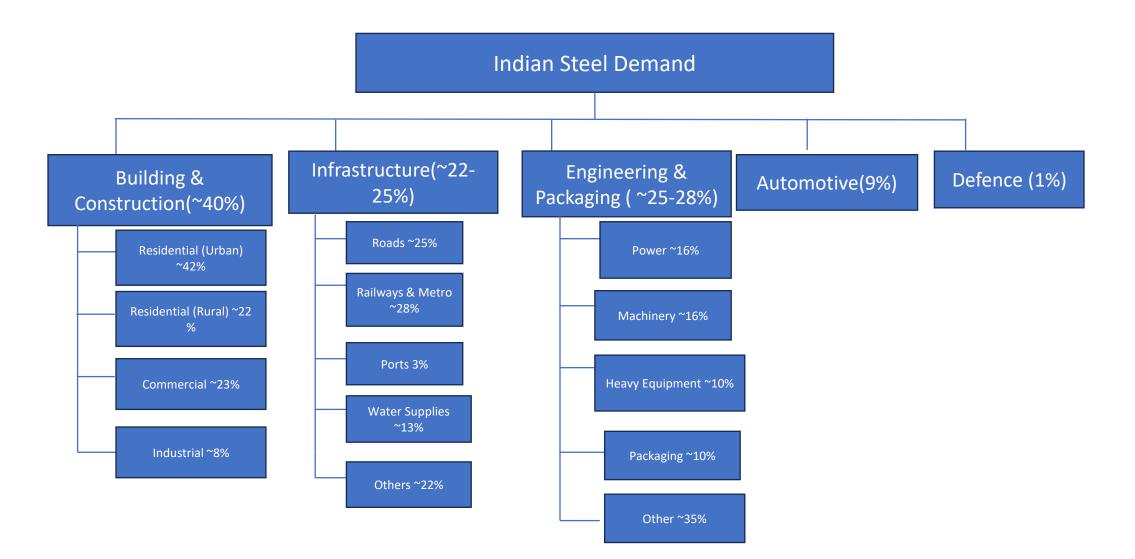
STEEL

- □ Construction & Infrastructure on the back of government expenditure are the key drivers for steel growth
- ☐ Real estate and housing schemes will remain robust
- ☐ Road & Rail infra are poised for healthy growth in coming years





STEEL CONSUMPTION IN INDIA- SECTORS & SEGMENTS





INFRASTRUCTURE VISION 2025



Affordable & Clean Energy



Convenient & Efficient Transportation and Logistics



Housing and Water Supply for all



Digital Services
Access for all



Quality Education



Doubling Farmers' Income



Good Health & Well-being

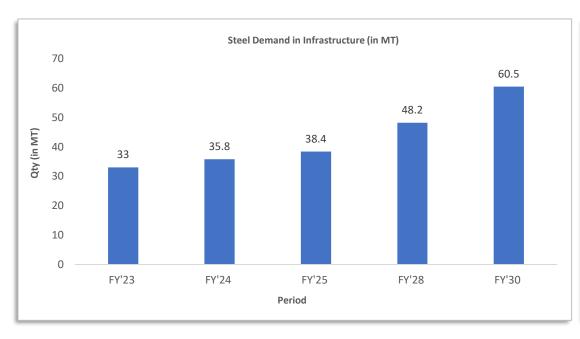


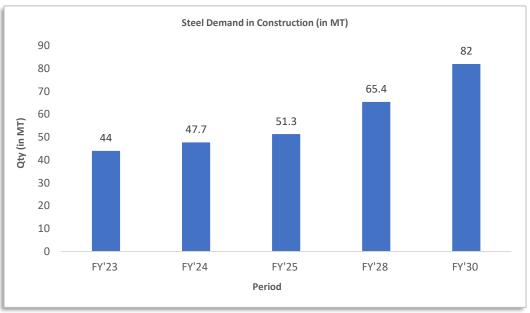
Sustainable and Smart Cities



INFRASTRUCTURE & CONSTRUCTION

Highly responsible for propelling India's overall development and along with boosting steel demand.





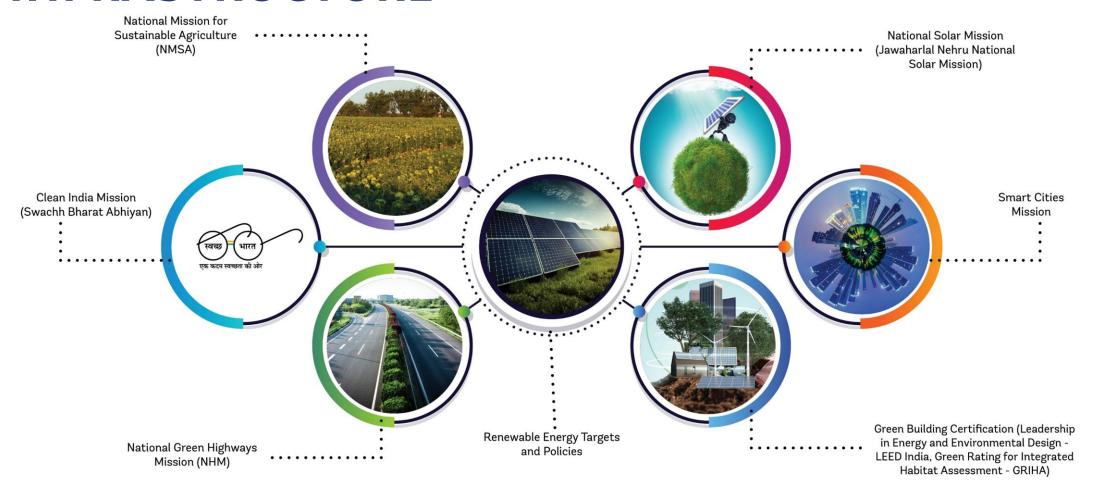
As India continues to urbanize and industrialize, there is a growing need for infrastructure to support economic activities, improve connectivity, and enhance living standards. Thus, the growth in this sector by 2047 will be immense with rapid urbanization.







INDIA's STEP TOWARDS GREEN INFRASTRUCTURE



These initiatives, along with other policy measures, incentives, and investments, demonstrate India's commitment to building green infrastructure and transitioning towards a sustainable and resilient future. By promoting renewable energy, sustainable transportation, green buildings, and ecological conservation, India aims to achieve inclusive and environmentally sustainable development while addressing the challenges of climate change and environmental degradation.



CASE STUDIES







SWOT ANALYSIS

STRENGHTS

- Abundant Renewable Resources
- Innovation & Technology
- Public Awareness
- Government Support
- Circular Economy

WEAKNESS

- Capex and Investment
- Skilled architects
- Economic Viability
- Climate Change Resilience
- Transition Challenges

OPPORTUNITIES

- LCCA
- Capability of Indian ISPs for Investment
- Importance of Government Policies
- National Steel Policy's Production Target
- Need for a More Sustainable Financing Policy Framework
- Lean Manufacturing and Continuous Improvement

THREATS

- Market Uncertainty
- Policy and Regulatory Risks
- Technological Disruptions
- Substitute Material
- CBAM



INFRASTRUCTURE ADDRESSING WASTE (CIRCULAR ECONOMY) USE OF STEEL SLAG

- By using waste steel slag in road construction, the technology offers an eco-friendly approach to managing industrial waste.
- This reduces the burden on landfills and minimizes the environmental impact associated with steel slag disposal.







COMPETITION FOR STEEL INDUSTRY FROM SUBSTITUTES MATERIAL



However, the advantage of steel holds its efforts towards DECARBONIZATION, WASTE TO WEALTH and Life cycle cost beholds a lot of potential.





METALOGIC ANALYSIS & RECOMMENDATIONS



Incentivize infrastructural development that preserves nature and integrates green infrastructure with steel.



Utilize digitalization technologies to determine optimal routes for green infrastructure projects.



Invest in R&D for innovative, sustainable steel materials and construction techniques.



Integrate green infrastructure principles into planning policies and regulatory frameworks.



Amendment in GFR route to accommodate steel infrastructure in the Planning Process.



Enhance academic programs to align with contemporary infrastructural development needs.



Collaborate with global partners and institutions to learn from best practices.



Establish a monitoring and evaluation framework to track the performance of green infrastructure projects.



Engage stakeholders throughout the planning and implementation phases of green infrastructure projects.



METALOGIC SERVICES

Projects Undertaken



Study for MCX on TMT future



Study on Pellets- demand-supply dynamics.



Survey on Steel Centre- to improve efficiServiceency

Undergoing Projects



GRENSTEEL

Long Products to understand for market penetration

Green Steel future for Secondary Sector

- Life Cycle Cost Analysis of Steel
- Identifying the Potential of Special Products



THANKYOU



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