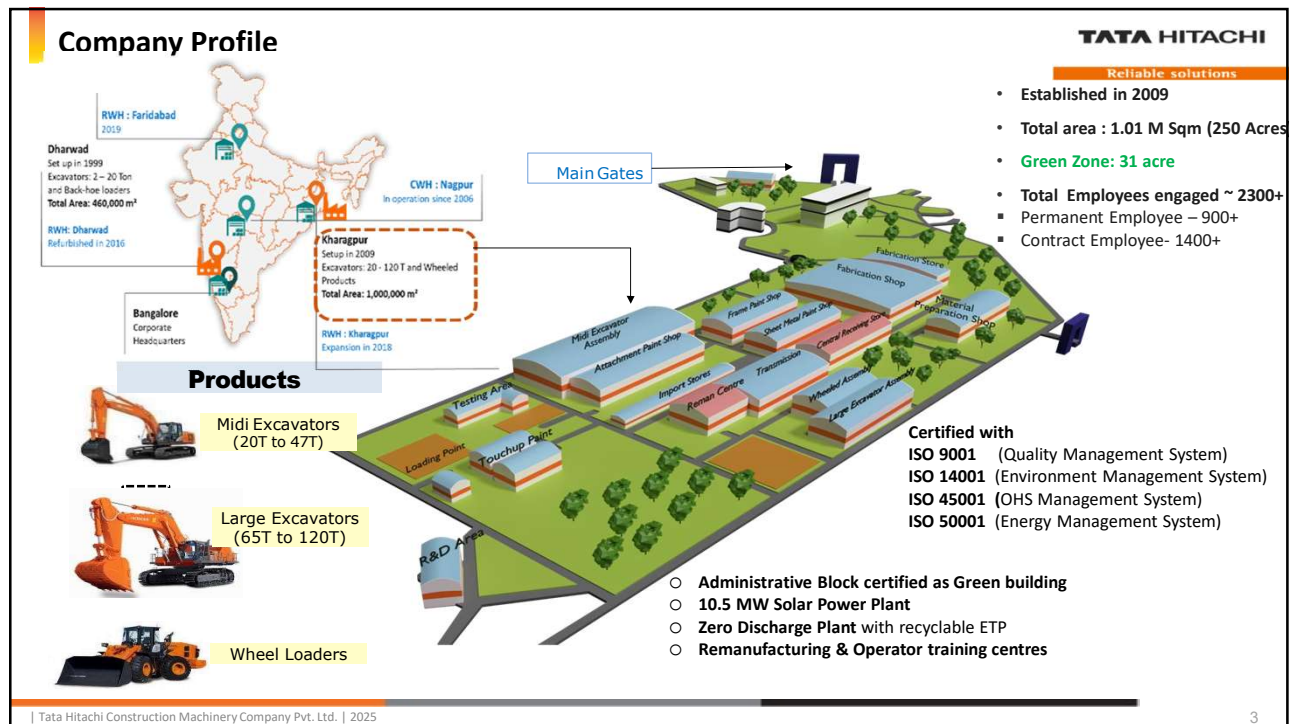




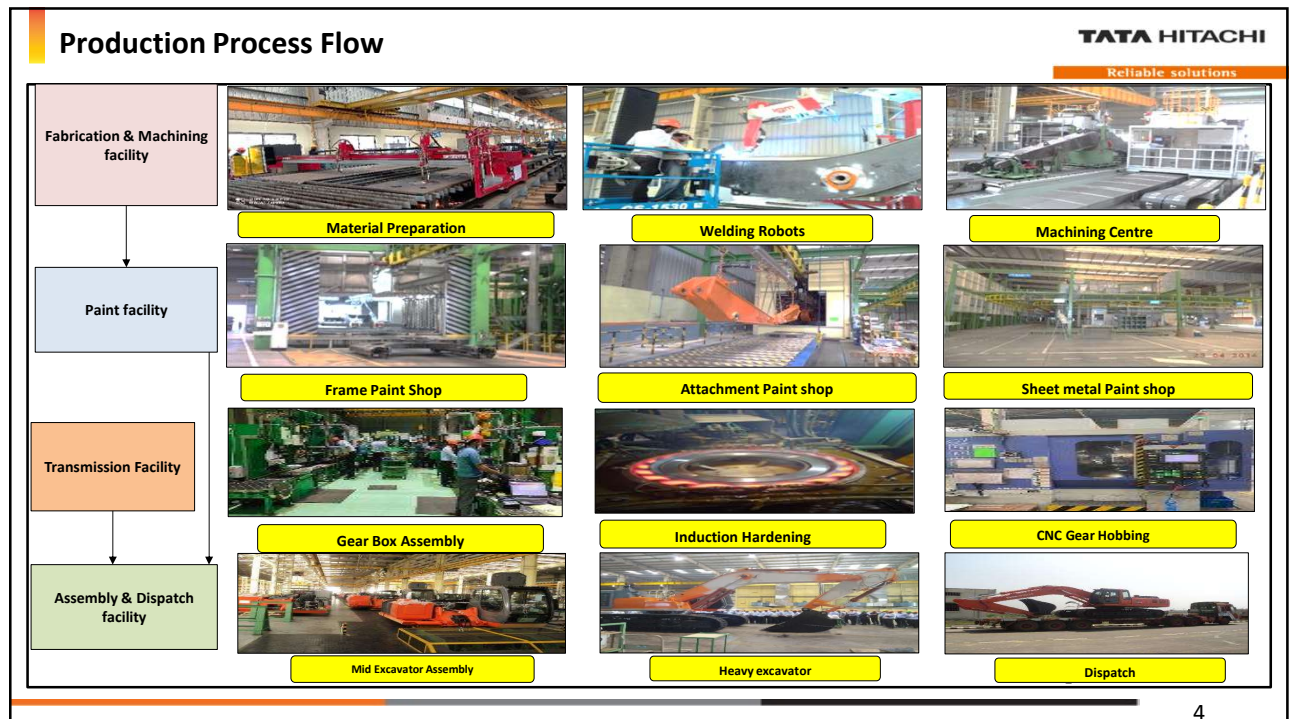
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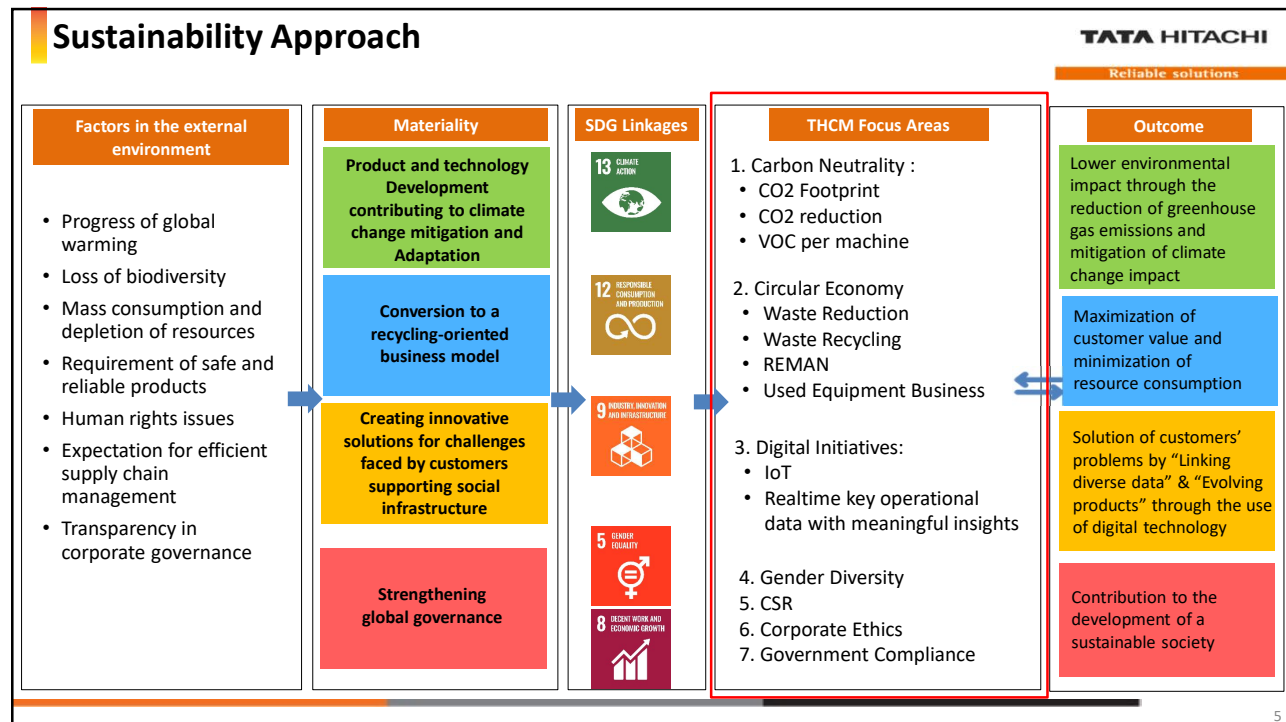
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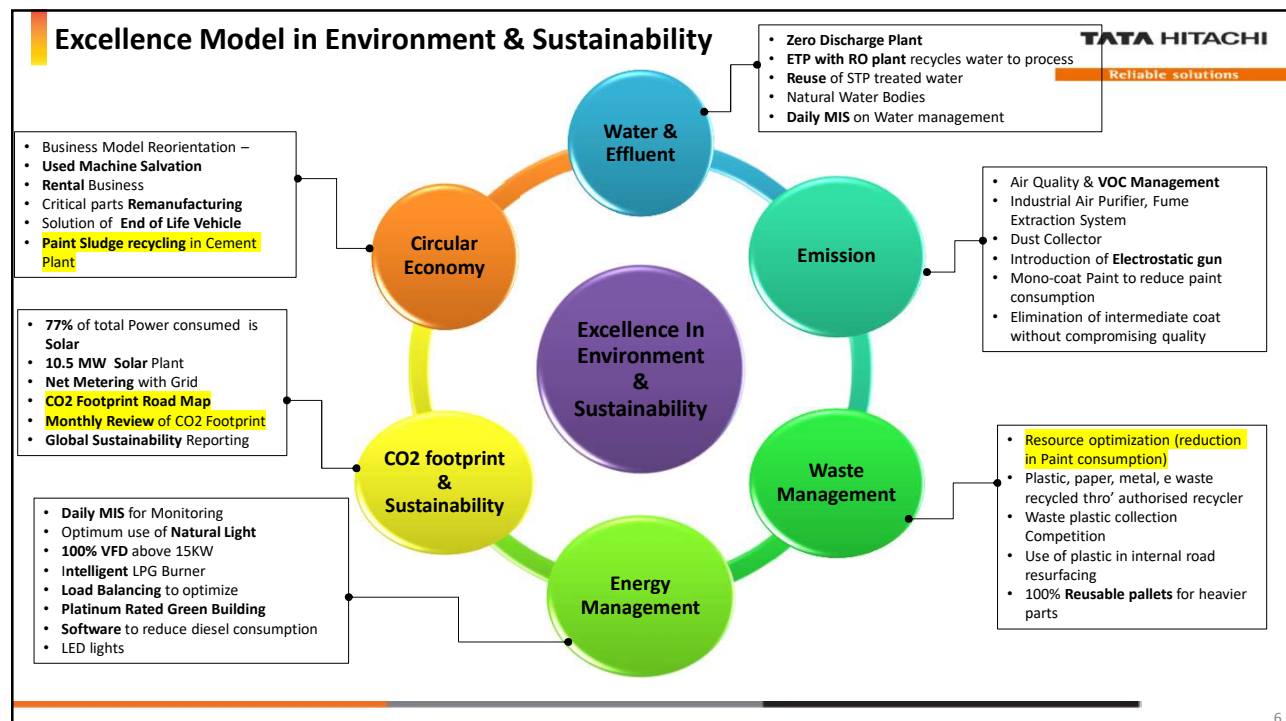
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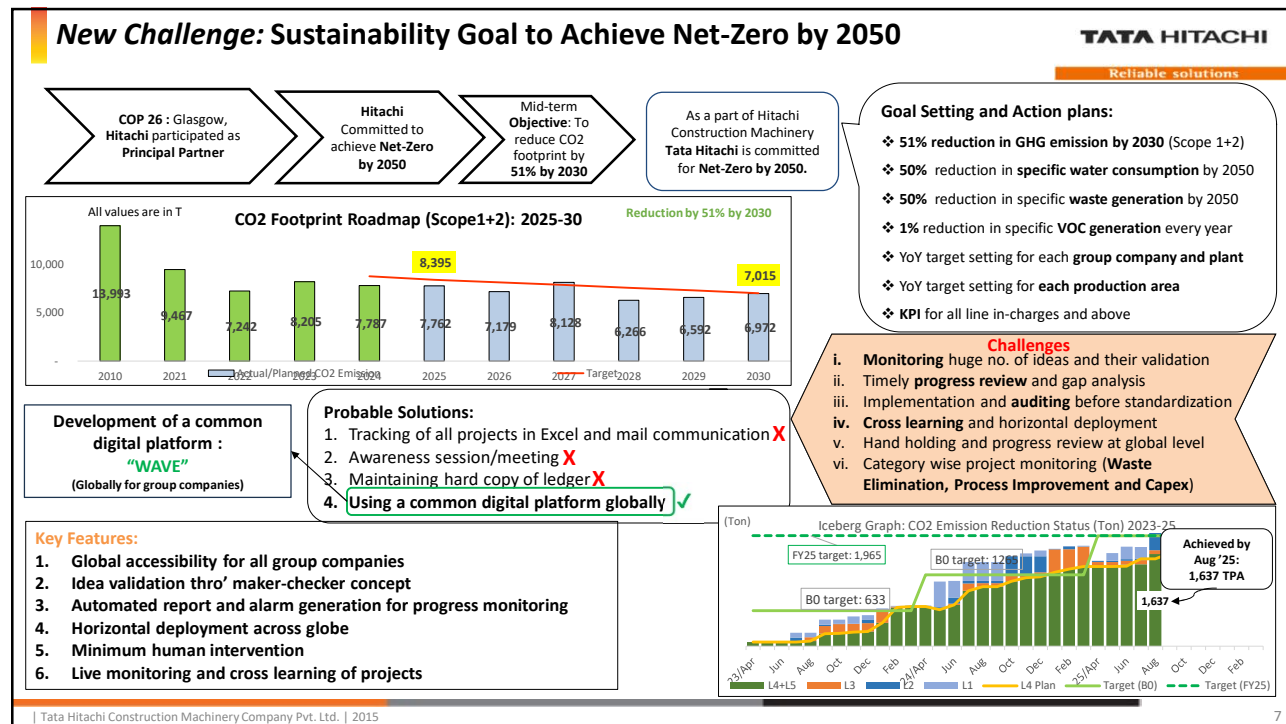
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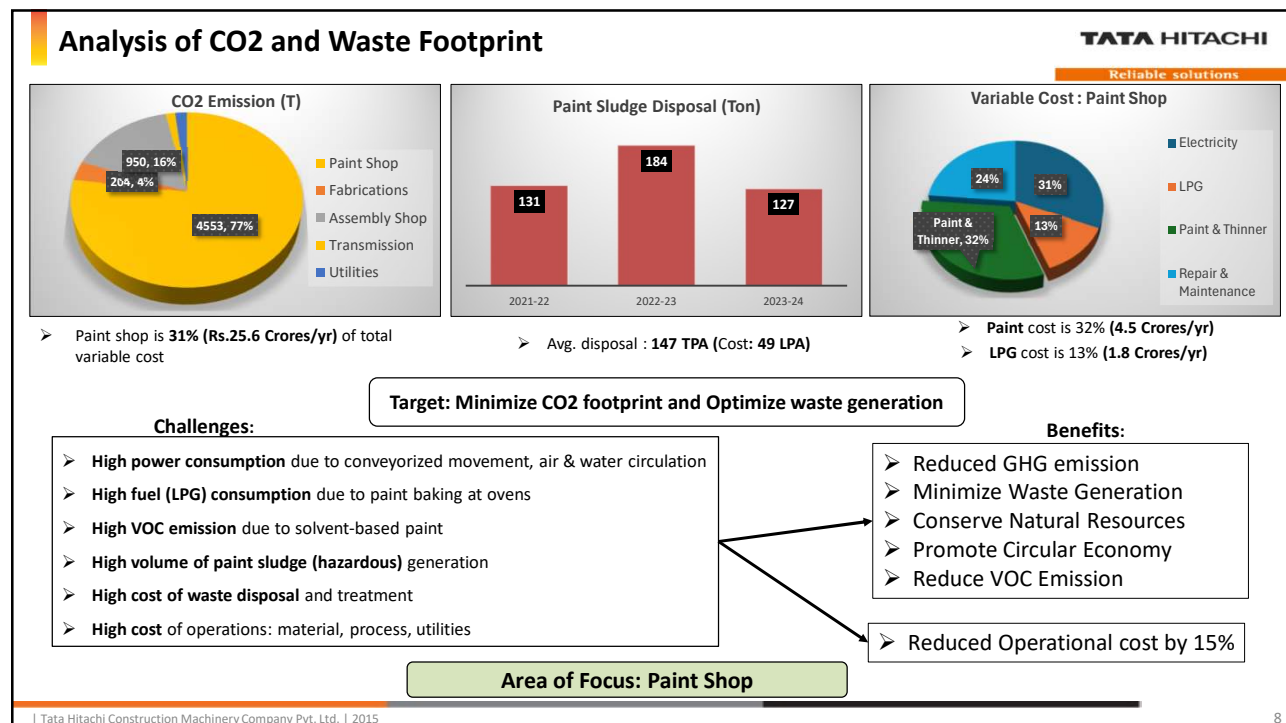
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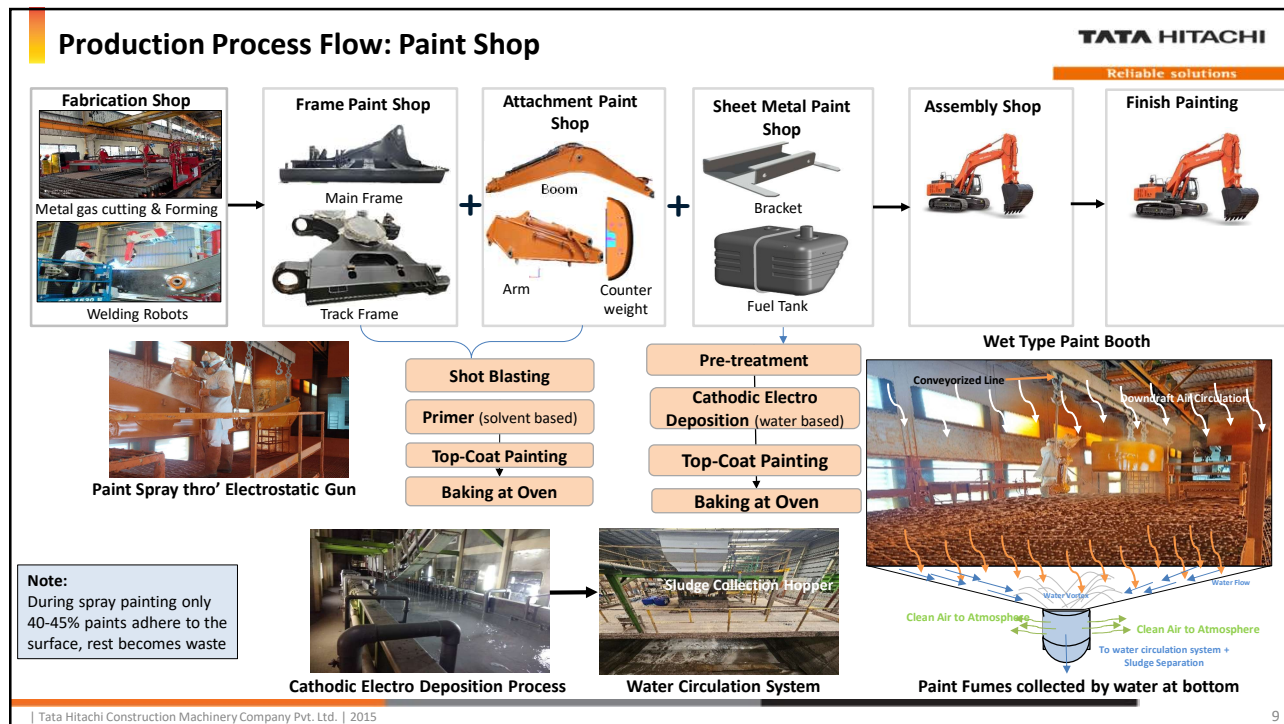
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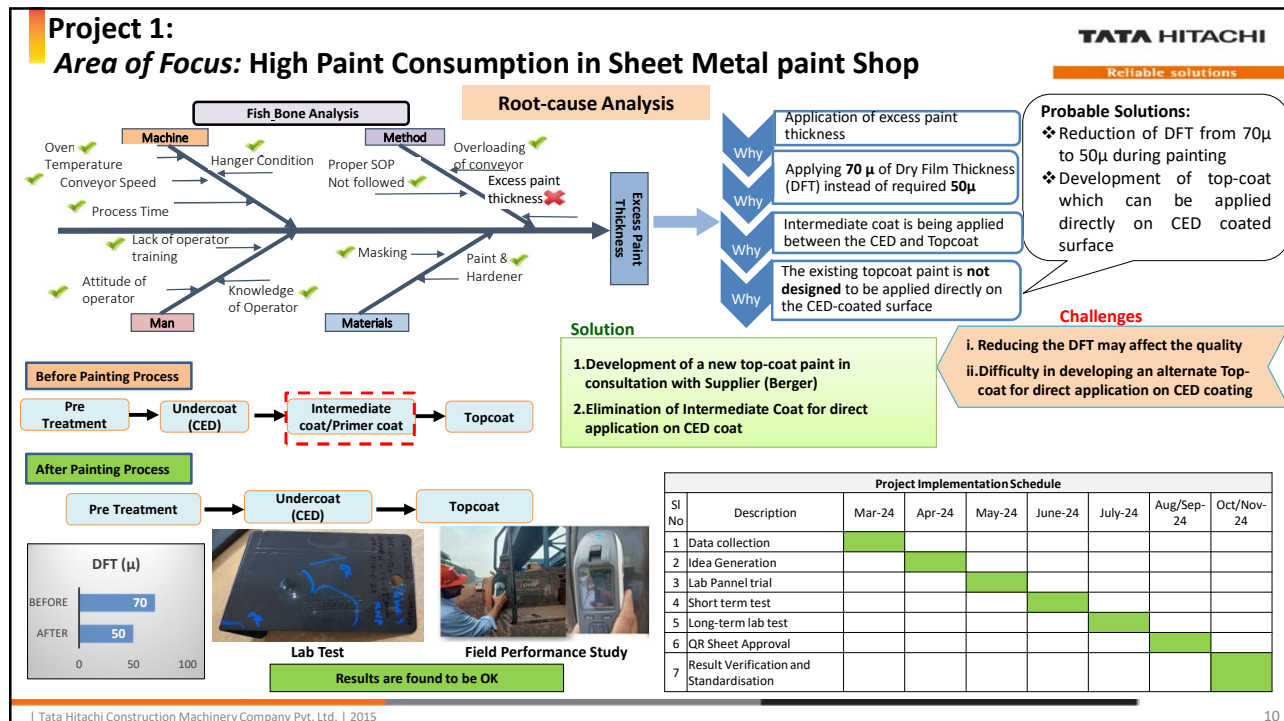
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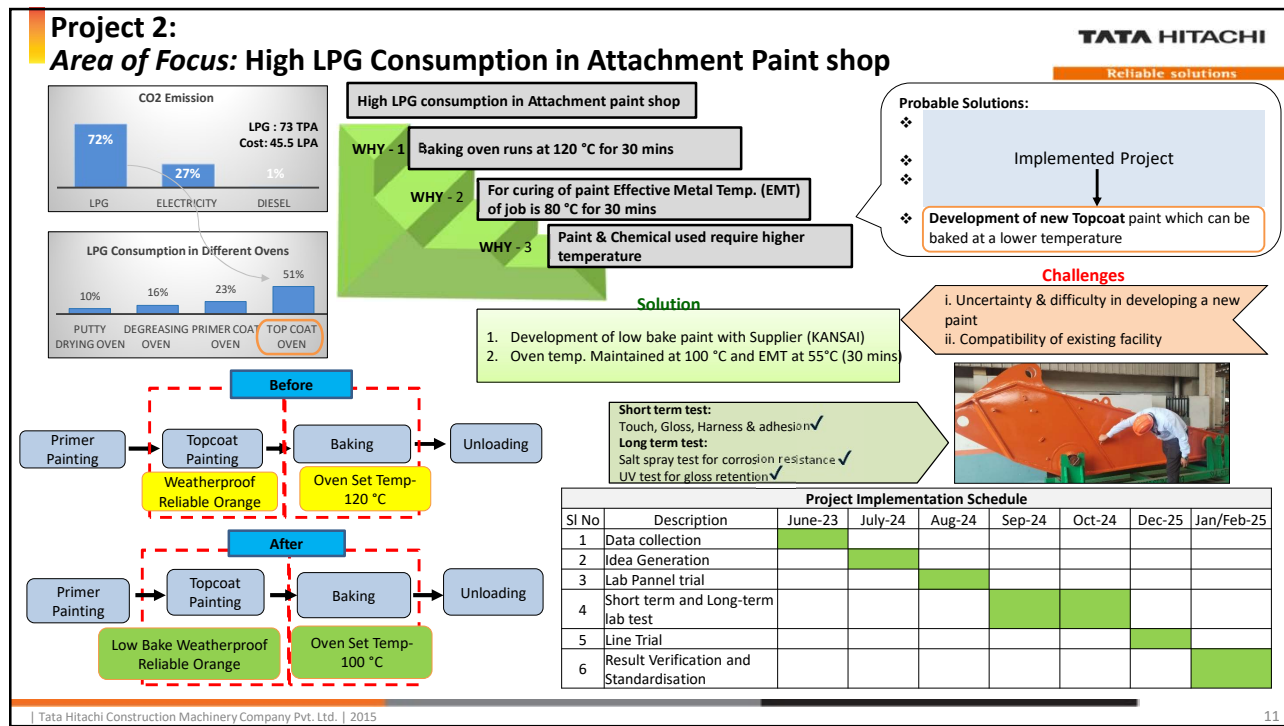


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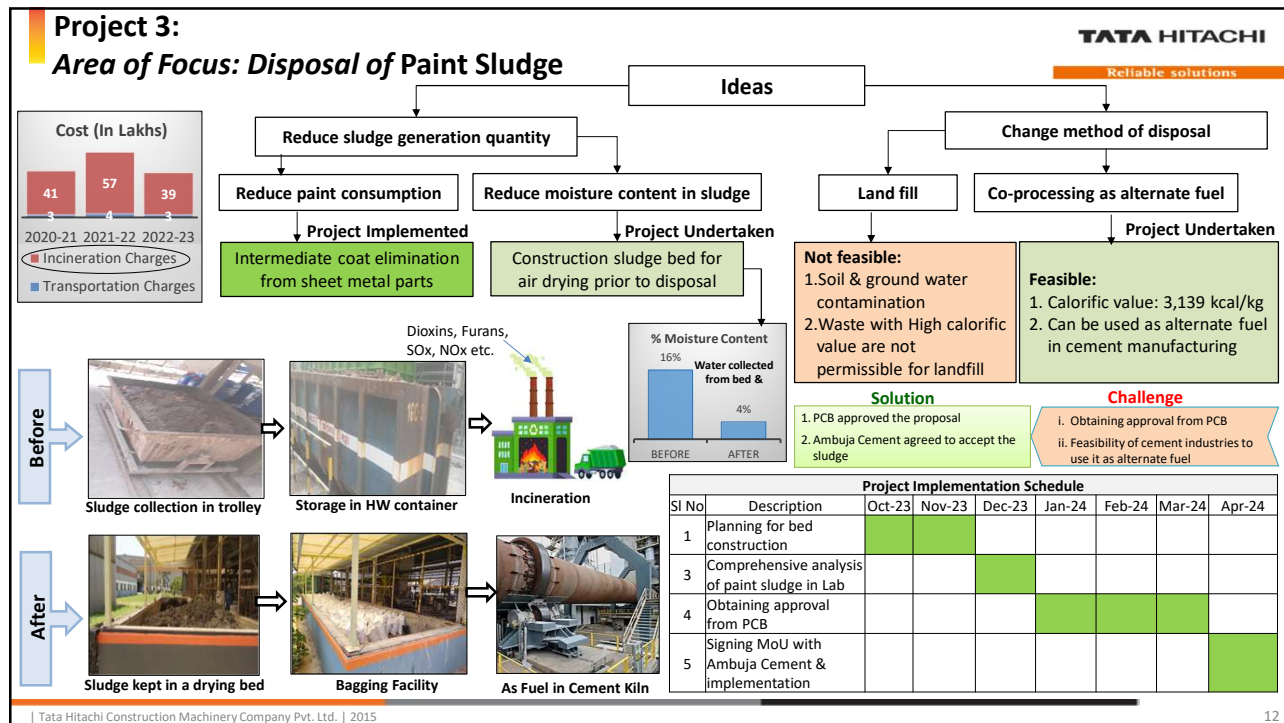


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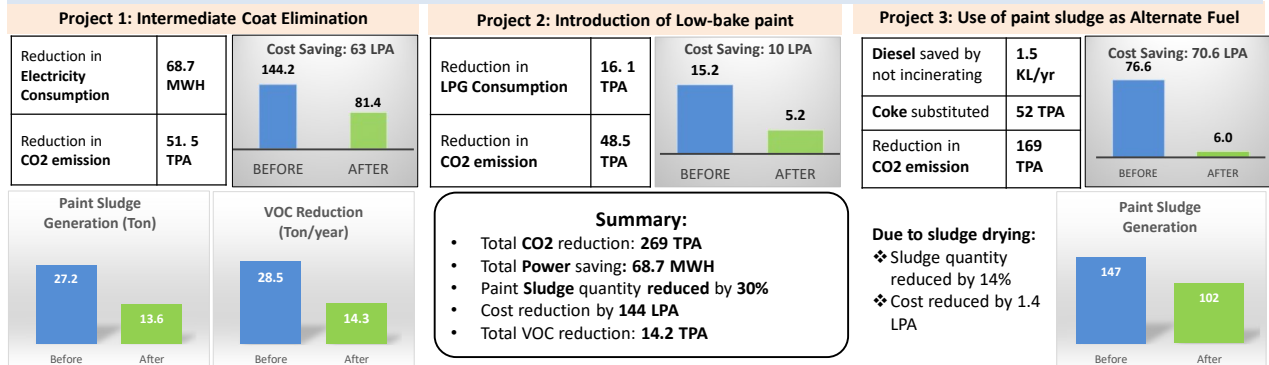
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Benefits

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Reliable solutions

Tangible



Intangible

- ❖ Reduction in other consumables (PPE & electrical component maintenance)
- ❖ Efficient utilization of **manpower**
- ❖ Reduction in water consumption
- ❖ Conservation of **natural resources**
- ❖ Efficient utilization of manpower
- ❖ **Cleaner environment** due to lower emission
- ❖ Action towards **climate change**
- ❖ Elimination toxic gas release to atmosphere
- ❖ Manpower optimization for waste handling
- ❖ Elimination of ash generation during incineration
- ❖ **Ground water conservation**

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Uniqueness & Replication Potential

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Reliable solutions

Projects	Conventional Method	Uniqueness of THCM's Practice	Replication Potential
Intermediate coat elimination	More paint thickness improves quality	➤ Reduction in paint consumption without compromising quality ➤ CO₂ emission reduction	Any engineering, construction and mining machinery manufacturing industry
Paint baking at low temperature	Baking at higher temperature as specified in painting quality requirement	➤ Reduction in fuel consumption without compromising quality ➤ CO₂ emission reduction	All industries having paint shops with LPG-fired oven can replicate this idea.
Reduction of paint sludge quantity and Co-processing it in Cement manufacturing industry	Direct disposal (with high moisture content) to authorized disposal facility for incineration	➤ Recycling hazardous waste towards circular economy	All paint shop operating industries can contact nearby cement manufacturing industry to utilize the sludge. It's a win-win situation for both industries.
Systematic approach towards Net-Zero	Execution of many CO ₂ reduction ideas with out proper monitoring tool	➤ Live monitoring with global access ➤ Solid foundation for Net-zero target	All industries committed to meet Net-Zero target but unable to keep track on the effect of implemented ideas.

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Benefits of "WAVE"

CO2 Emission Reduction (Scope 1+2): 2023-26

Year	CO2 Emission Reduction (Ton)
2023-24	427
2024-25	458
2025-26	239

All projects across globe in single screen

Detailed movement in project implementation schedule

Technical details and validation of each project

Major Ideas in Pipeline

Key Ongoing Projects 2025-26				Implemented Projects: 2023-25			
Shops	Initiatives	CO2 reduction (Ton)	PDC	Shops	Initiatives	Co2 reduction (Ton)	PDC
Paint Shop	Reducing tack time in sheet metal paint shop from 3 to 2 minutes	265.0	Nov'25	Paint shop	Use of hot air from compressor in painting Oven	38.0	Nov'24
Paint shop	Install Heat Pump to eliminate LPG in Hot water generator	35.0	Sep'26	Transmission	Reduction in run time of cooling tower	28.4	Apr '25
Fabrication	Increase the feed rate of in machining to reduce the cycle time for arms, booms	21.2	Oct'25	Paint shop	Low temperature degreasing in Frame paint shop	23.3	Jan'25

Key Initiative for Circular Economy
"Use of waste plastic for internal road resurfacing"

Waste Plastic → Recycled to Granules → Road Resurfaced

Plan (FY 2025-26)
Estimated Quantity: 5 TPA

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Reliable solutions

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THANK YOU

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