



Ops - Cogitate: Case Study Challenge Overcoming Decarbonization Challenges in Supply Chain

Team name: Red Ocean

Team members:

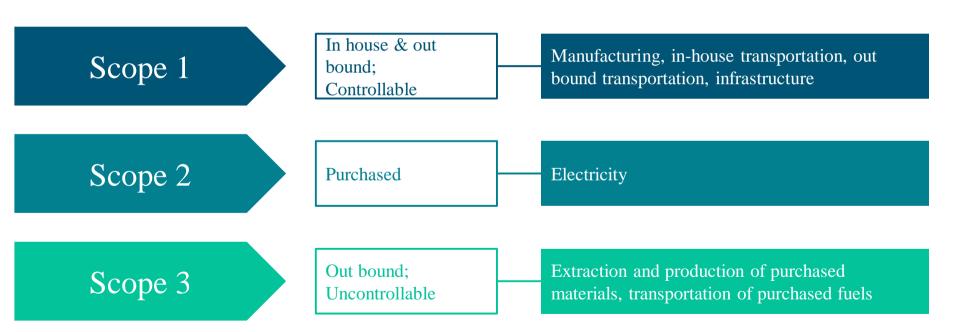
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Tidal Wave Decarbonization Strategy

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Scopes of emission at Tidal Wave



Strategies to reduce scope 1 emissions



Optimizing manufacturing process

1. Use of grey cast iron (GCI), non-asbestos organic (NAO) pads, metalloids pads, and low metallic (LM) pads instead of asbestos





- 2. Use of eco-friendly alternatives wherever possible (eg; sustainable dungarees, toiletries, re-usable utensils
- 3. Digital methods to avoid paper
- 4. Re-using single side prints as notepads, etc.
- 5. Sensitization of employees on significance of sustainable practices





Green in-house logistics

- 1. Use of eVs
- 2. Re-usable packaging material



1. A dedicated department for plantation drives to increase carbon sequestration





Eco-friendly infrastructure

- 1. Frugal, age-old building practices to control internal temperatures
- 2. Repurpose an existing building to serve new functions as opposed to erecting new infrastructure from scratch





Strategies to reduce scope 2 emissions

Supplementing power supply with renewable supplies

- 1. Solar energy
- 2. Open roofs to allow light during day time
- 3. Reducing electricity consumption via LED, low hanging lights
- 4. Motion sensor lights in bathroom









Strategies to reduce scope 3 emissions

Outbound logistics

- 1. Carpooling of supplier material: Integrating suppliers to pool deliveries to reduce engine emissions during delivery
- 2. Managing reverse logistics with aim to reduce unnecessary to and fro movement
- 3. Demanding supply of material in re-usable packaging instead of single-use cardboard packaging.



Re-usable packaging



Outcome Map for Decarbonization Reporting



Point of maximum carbon emission



Eg; manufacturing process.



emission
ailor made strateg

Tailor made strategies for each checkpoint identified



Eg; optimizing manufacturing process



Setting targets

Defining the target and setting deadlines to achieve them



Eg; 20% reduction in carbon footprint by 2030



Monitoring & Feedback

Continuous monitoring and feedback to check if the changes made are helping meet targets



Eg; before and after comparisons of Carbon emissions



Successful practices documented for all future initiatives to achieve bigger targets.



Way forward strategies

END SLIDE