

# NET ZERO

What is Net Zero?

01



**Measures to lower emissions**

For example:

- invest in green technology.



02



**Measures to remove emissions**

For example:

- forest expansions
- Direct air capture



03



**Net Zero**

The balance between the amount of GHG produced and removed from the atmosphere.

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Passive design optimization.



Reduce operational energy demand & consumption.



Eliminate fossil fuels.



Provide onsite renewable energy & storage where possible.



Limit upfront embodied carbon.



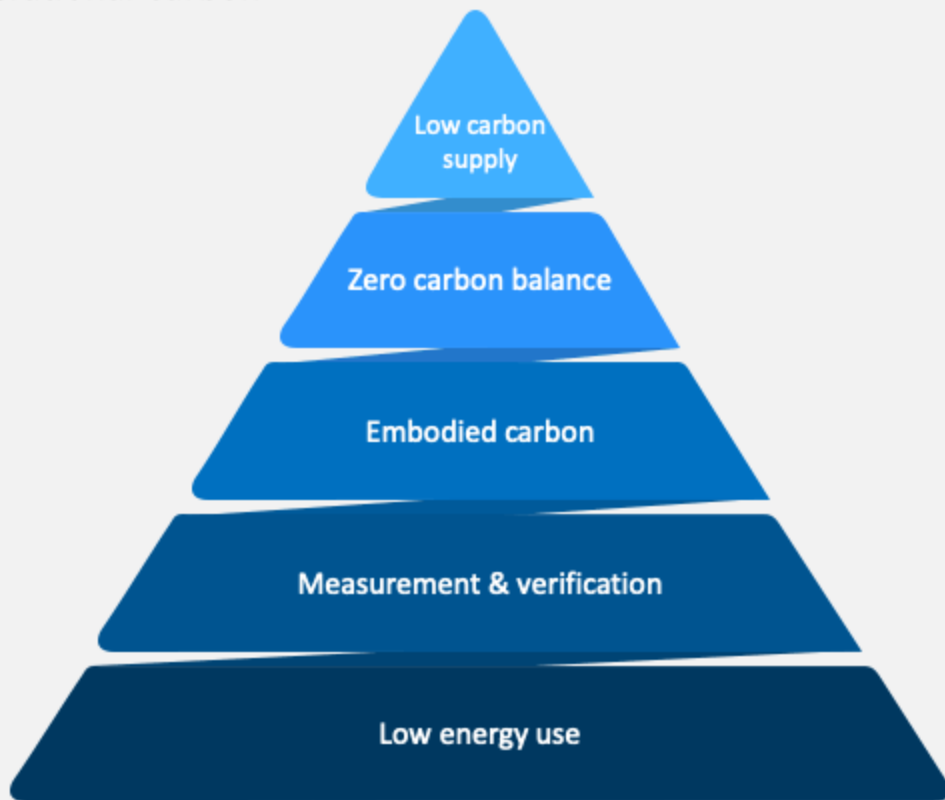
Consider whole life carbon in conjunction with whole life costing.



Publicity discloses performance annually using the WRAP database.

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## Net Zero Operational Carbon



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## The Path to Net Zero

### Energy Efficiency

Passive & efficient design,  
construction & operations  
Ongoing commissioning  
Sustainable occupant  
behavior & education

### Onsite Renewables

Onsite solar owned, power  
purchase agreement roof  
lease  
Battery storage Combined  
solar & battery storage

### Offsite Renewables

Virtual power purchase  
agreements  
Renewable energy  
credits  
Carbon offsets

### Circular Economy

Closed-loop system  
Regenerative model  
Natural ecosystem cycles

### Power Grid Electrification

EV charging stations  
100% electric power  
in building systems

### Embodied Carbon

Embodied carbon of  
building materials  
Embodied carbon in  
construction calculator

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## Create Transparency

- Build value chain emissions baseline and exchange data with suppliers.
- Set ambitious reduction targets on scopes 1-3 and publicly report progress.

1



## Optimize for CO2

- Redesign products for sustainability.
- Design a value chain/ sourcing strategy for sustainability.

2



## Engage Suppliers

- Integrate emissions metrics in procurement standards and track performance.
- Work with suppliers to address their emissions.

3



## Push Ecosystem

- Engage in sector initiatives for the best practices, certification, advocacy.
- Scale-up "buying groups" to amplify demand-side commitments.

4



## Engage your Organization

- Introduce low-carbon governance to align internal incentives and empower your organization.

5

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## Conclusion

What does the first roadmap look like? How can it respond to change? What are the first actions?

## Engagement and prioritization

What action do the port as well as other actors and stakeholders, see as priorities?

## Interventions

What changes could reduce emissions, how easy are they to implement or influence? How impactful are they?

## Emissions and influence mapping

What emissions do the port have to influence over? What is the magnitude in each area?

## Policy review and scenario development

What is the policy landscape? What are the different pathways to net-zero?

## System-level change and market dynamics

What could broader changes not-zero bring, and how could these affect the port?



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