



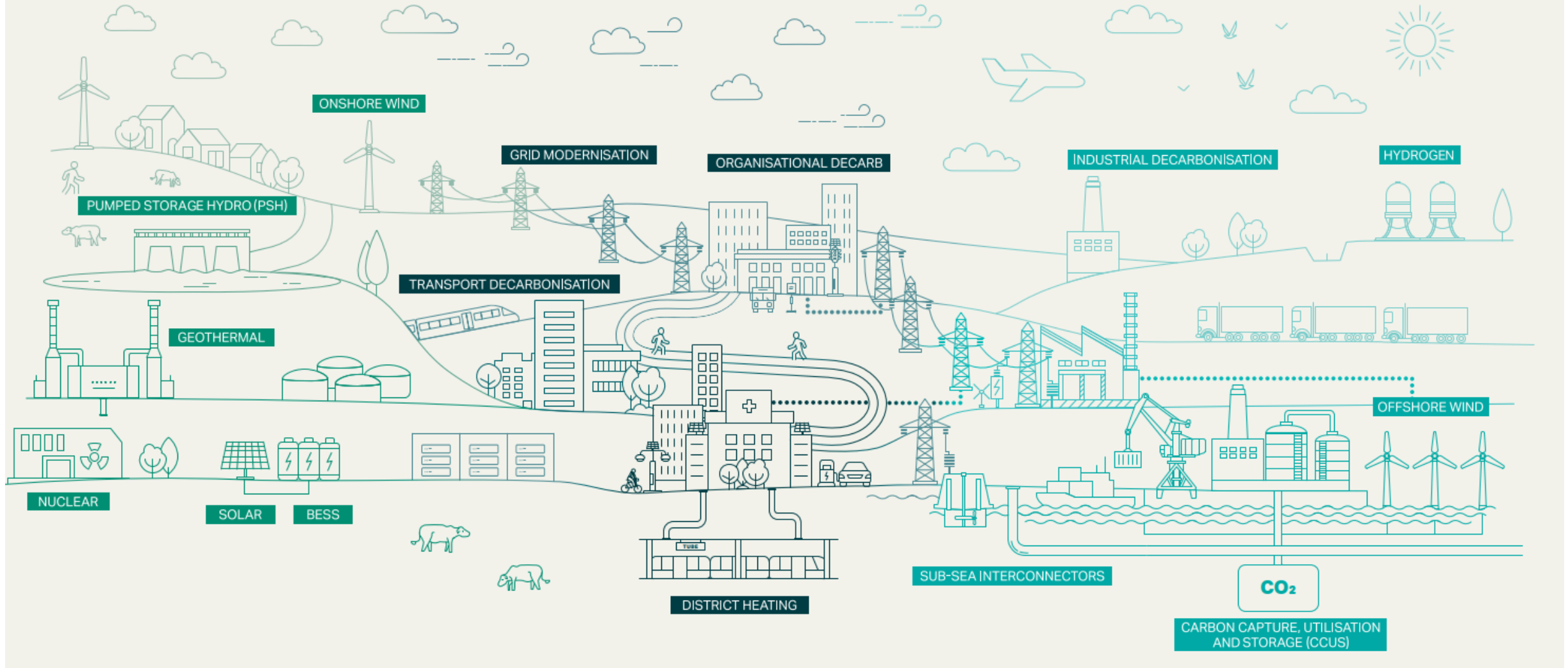
ENERGY TRANSITION:

Lessons learnt from navigating change in complex stakeholder contexts

Charting the Course to Zero Emission Ports

John Coverley

Introduction

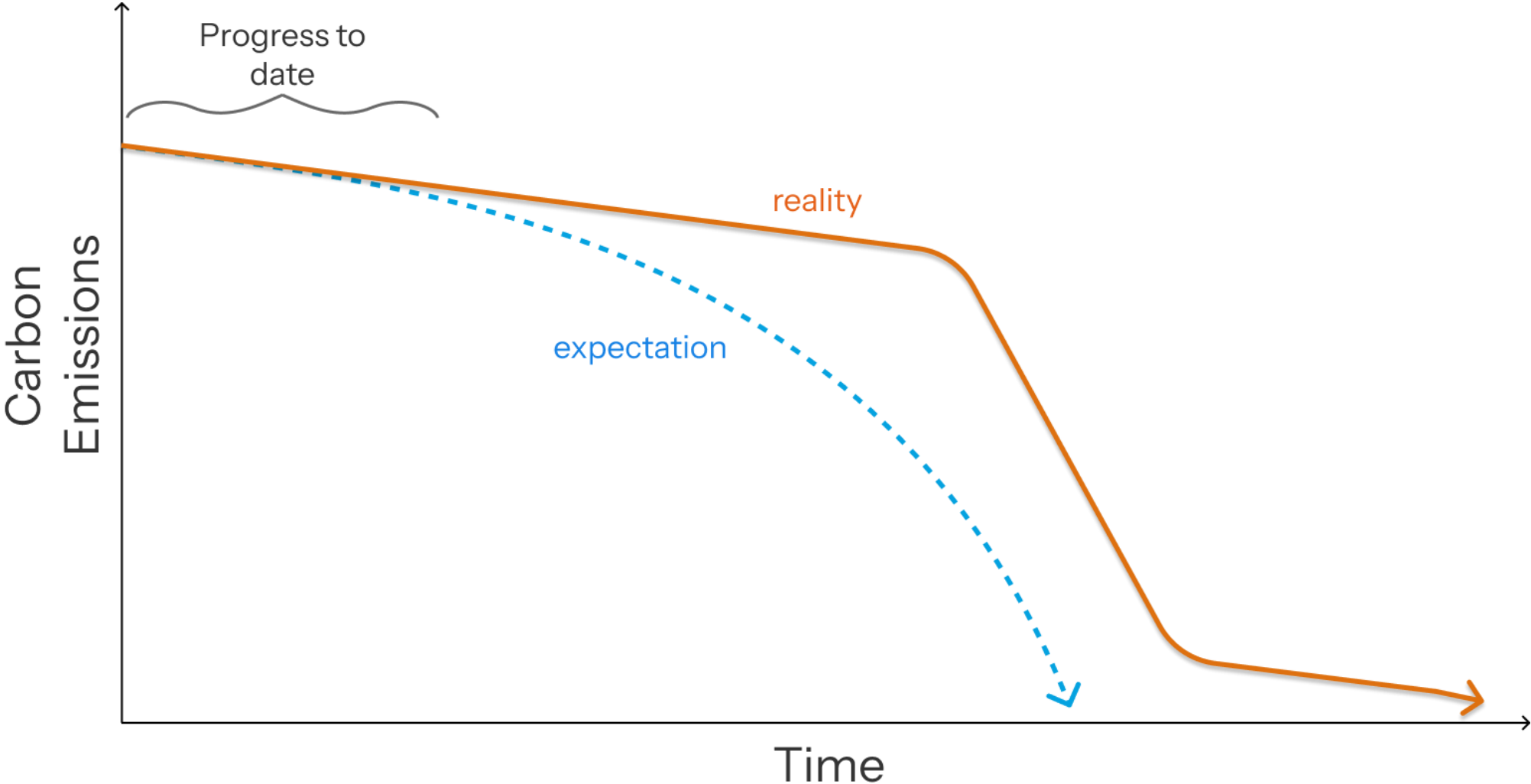


1 Challenges and opportunities of managing at-scale deployment of low carbon technologies

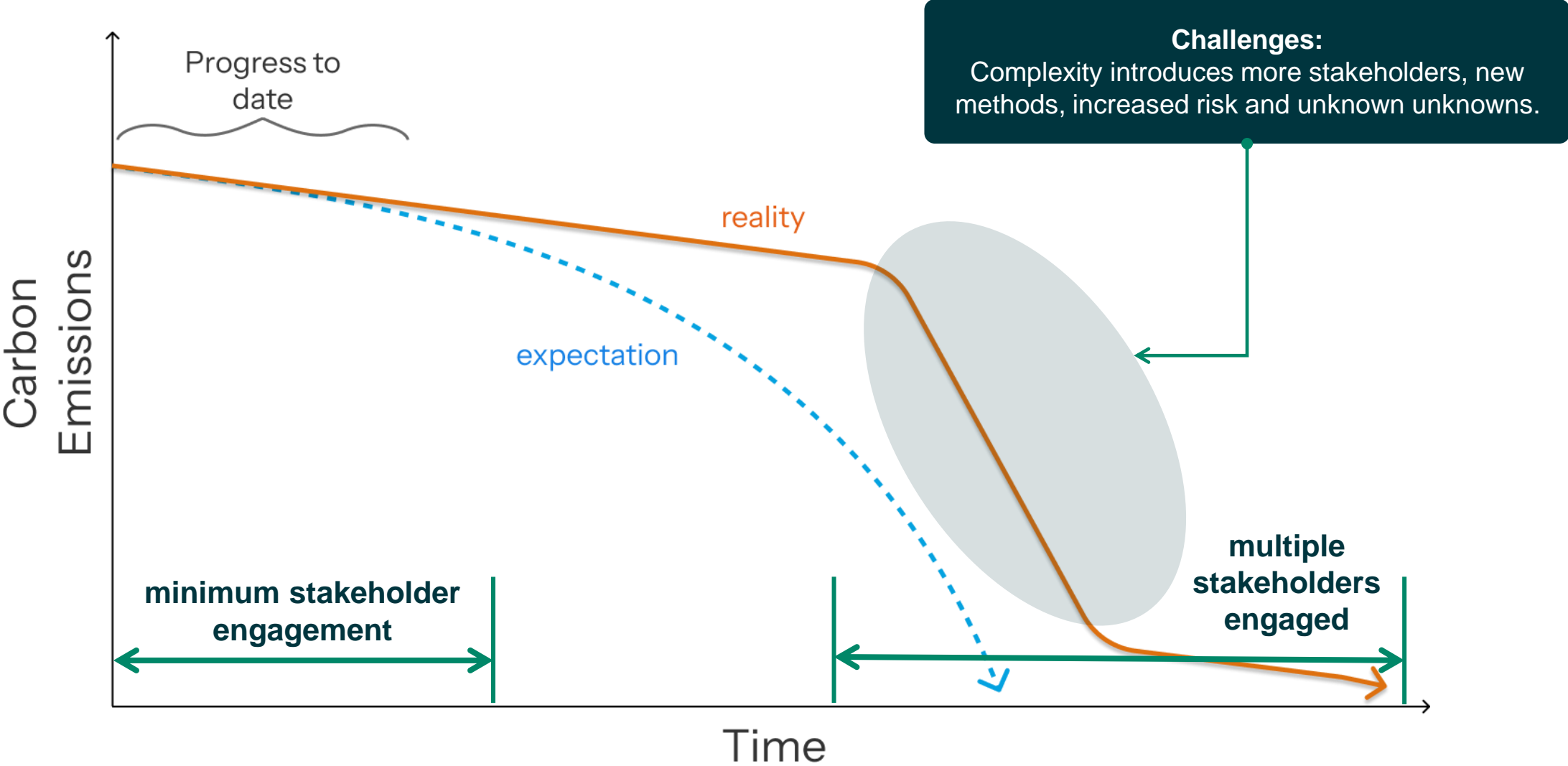
2 There is no one-size-fits-all solution; technical solutions and major systems upgrades must be coordinated across stakeholders

3 Best practices for identifying stakeholders in energy master planning and complex decarbonisation projects

Energy Transition



Energy Transition

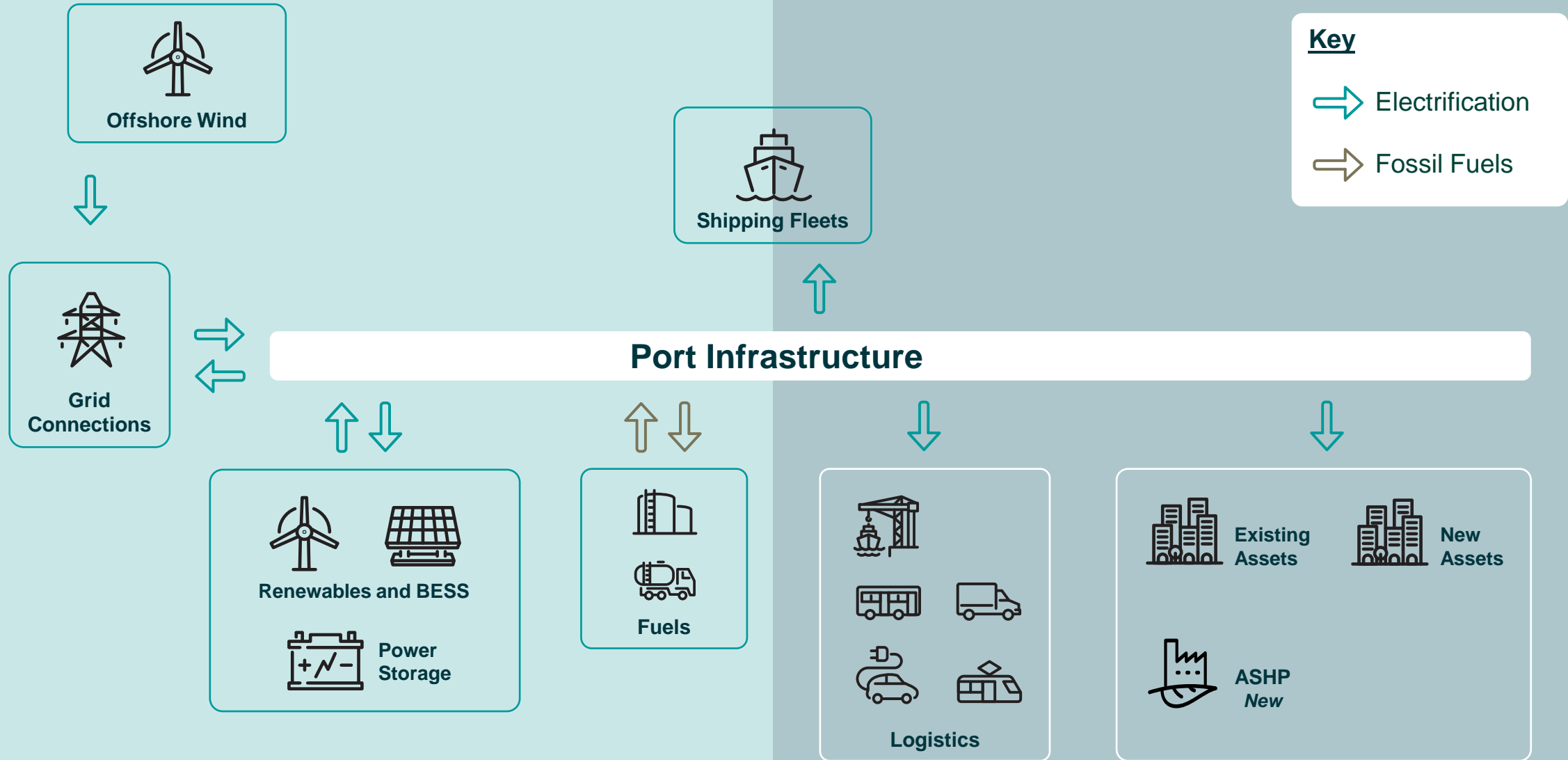


Stakeholders have Overlapping Priorities

Stakeholder/Market	Location	Sector	Decarbonisation Pathway
Tenants and Operators	Buildings and Processes	Commercial	Electric
		Industrial <150°C	Electric
		Industrial >150°C	Electric/E-Fuel/CCS
	Transportation of People and Goods	Car and Vans	Electric
		Light Goods	Electric
		Heavy Goods	Hydrogen
		Buses	Electric/Hydrogen
		Rail	Electric/BESS
		Marine	E-Fuel
Energy Market	Generators/ Suppliers/ Energy Developers/ Integrators		Electricity
			Hydrogen
			E-fuels
			CCS

Energy Infrastructure Market

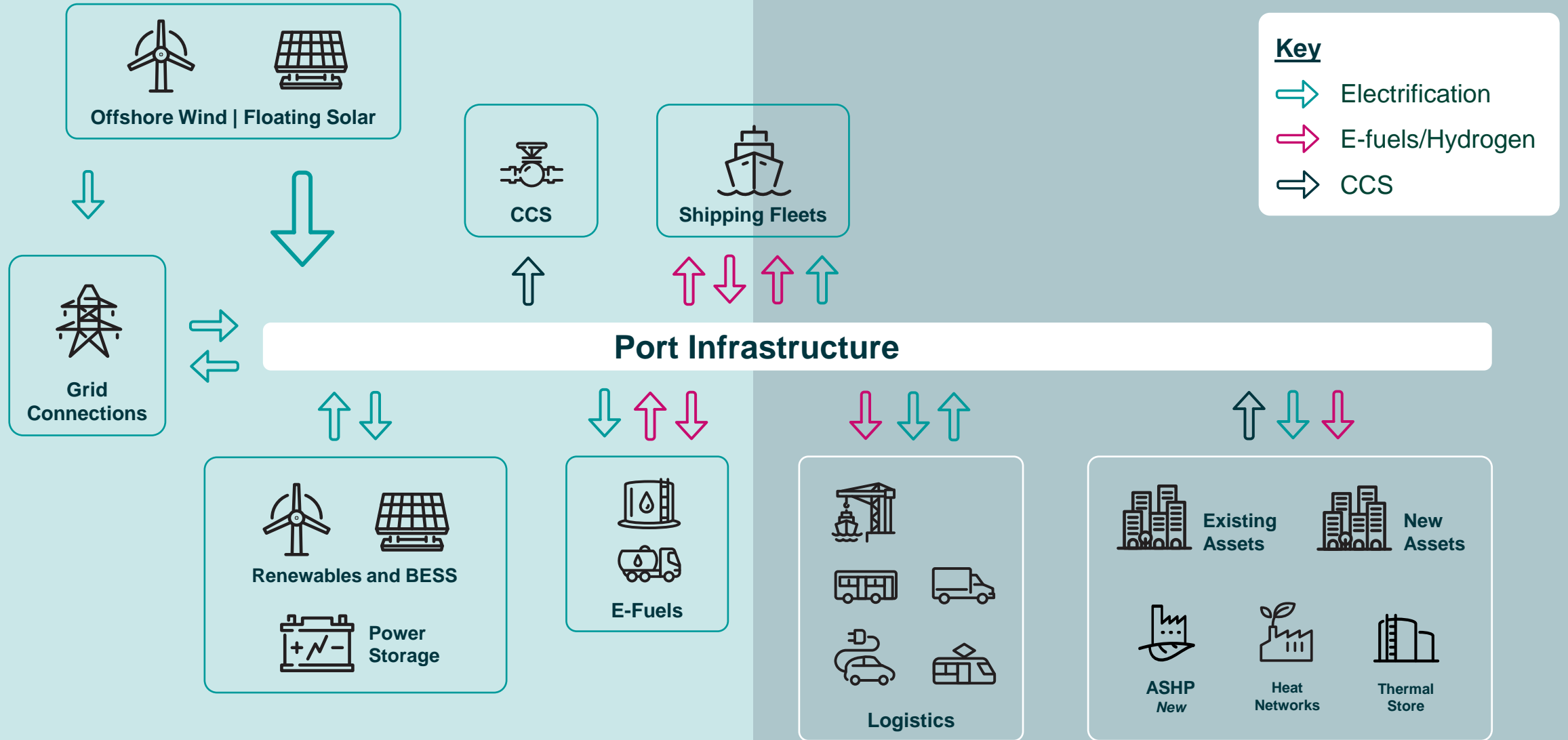
Port & Marine Operations



Port operators, tenants, supply chains, local regulatory authorities, environmental agencies.

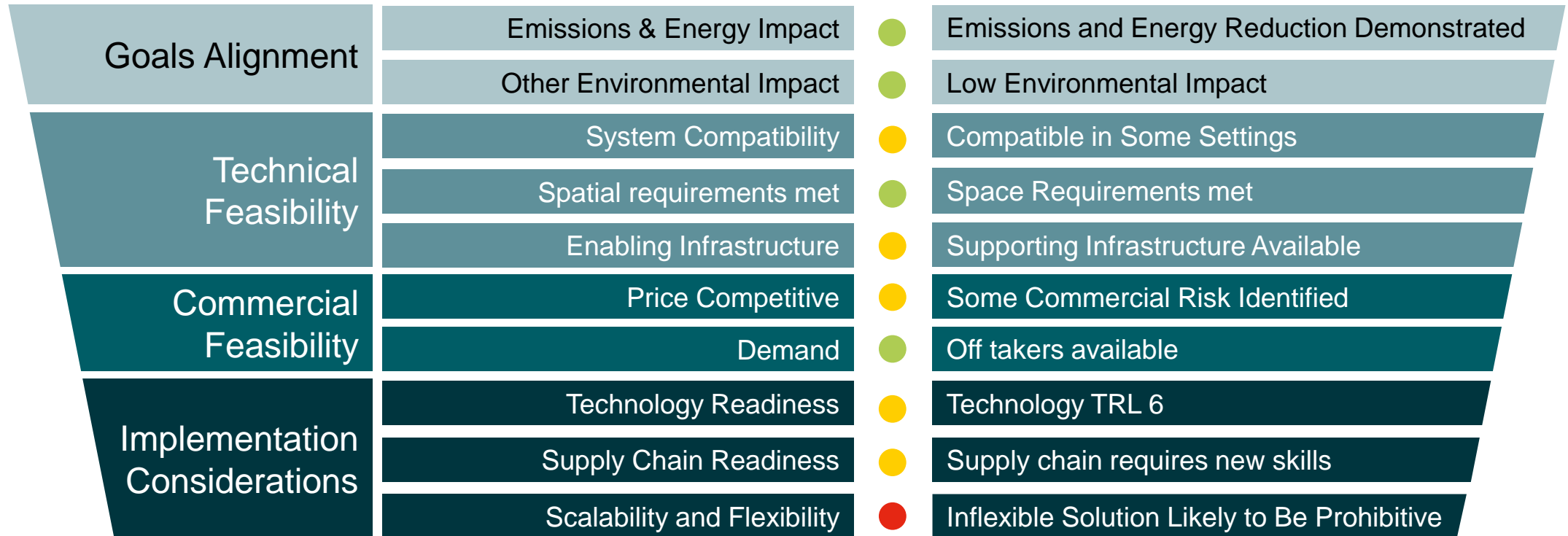
Energy Infrastructure Market

Port & Marine Operations



Port operators, tenants, existing and new skills and supply chains, local regulatory authorities, environmental agencies, share holders and investors.

Stakeholder Identification and Alignment



Stakeholders



Stakeholders



Shared Interests

- Marine Fleet Operators
- Port Operators
- Energy Suppliers
- Energy Generators
- Energy Network Operators
- Fuel Providers
- Investors/Shareholders
- Local/municipal/national authorities
- Environmental Authorities
- IMO
- Logistics operators
- Local transportation networks
- Supply chains and work force
- Education and training providers

Summary



**Better outcome
for all**



Faster delivery



**Early stakeholder
engagement de-risks
projects,**

Unknown unknowns to knowns



**Interesting
opportunities and
collaborations**

Must be identified early in the
project to be realised



**De-risking
political support**

Increases likelihood of funding,
both public and private

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