



INTERNATIONAL ELECTRIC VEHICLE SYMPOSIUM & EXHIBITION



Governance for sustainable maritime passenger transport

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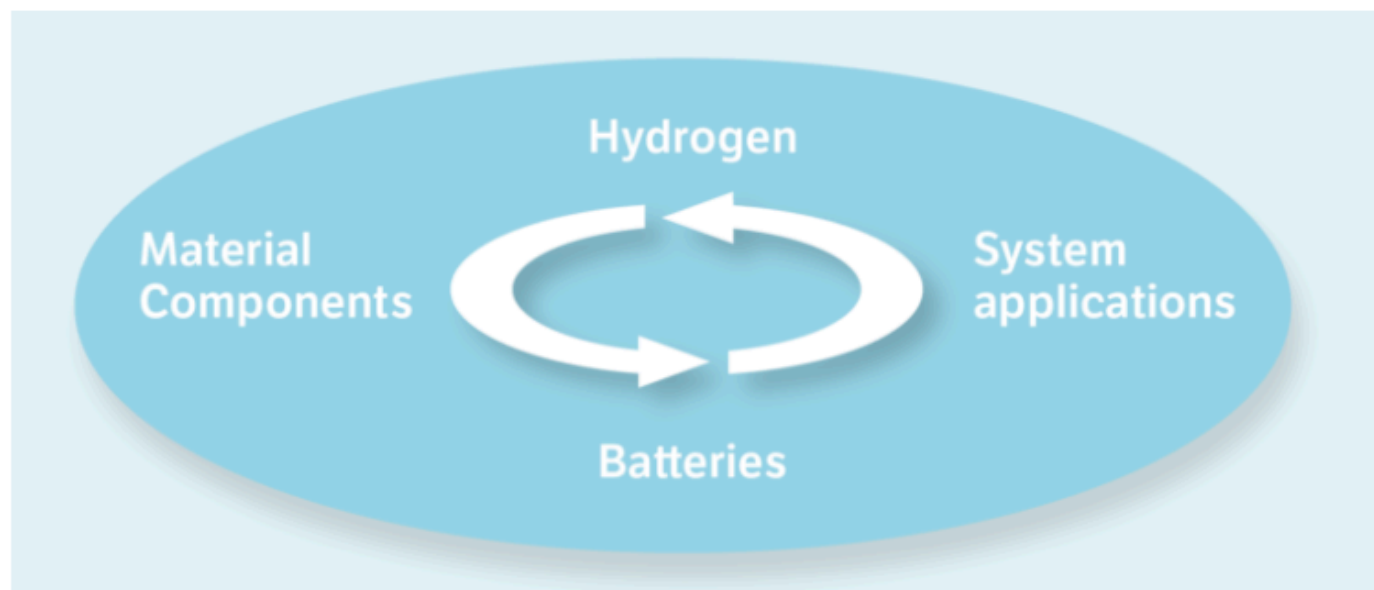
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MOZEES
Mobility Zero Emission Energy Systems



MoZEES focuses on battery and hydrogen value chains, systems, and applications where Norway can take a leading position in the future.



Disposition

- Green public procurement in Norway
- Study on green public procurement of ferry services
- Calls for tender: requirements and responsibilities
- Critical issues in GPP and implications for governance

Green Public Procurement of transport

- A market approach to governance
- Autonomy in ambitions and procedures
- Most procurement in Norway include environmental criteria
- Zero-emission nation
 - Environmental criteria at least 30 % weight
 - Zero-emission solutions for ferry services connecting national roads
- Different procurers of ferry services
 - Regional authorities
 - Public transport administration companies
 - Norwegian Public Roads Administration

Public procurement of ferry services

- MoZEES: case study on tendered maritime passenger transport in Norway
- Explores and describes the role of governance in transitioning domestic maritime passenger transport towards sustainability:
 - What characterises green public procurement of ferry services in Norway?
 - What issues are critical for green public procurement to accelerate sustainable transitions in maritime passenger transport?
- Analysis of 11 calls for tender for ferry services.
- Interviews with 3 procurers and 2 ferry service operators

Analysis of calls for tender: data and methods

- 11 calls for 19 ferry services throughout Norway
- 2015-2018
- National database for public procurement (Doffin) or provided by procurer's contact person
- Explore and document the calls' directions regarding
 - quays and infrastructure
 - vessel requirements
 - other environmental criteria
 - award criteria

Analysis of calls for tender: main findings

- Vessels: technology vs. emission/energy limits
- Operator responsible for infrastructure
- Environmental upgrading subtracted from price
- Mandatory monitoring and reporting
- Combination of price and environmental award criteria most common

Vessel requirements	Calls
Fully electric	4
Electric hybrid	1
LNG or non-fossil fuels	2
Limits on emissions/energy use	4

Critical issues in public procurement: data and methods

- Five interviews autumn 2018
- Purposive sampling
- Three procurers
 - One public transport company
 - Two representatives from National Public Roads Administration
- Two ferry service operators
 - Large market shares
 - Extensive experience with bidding on calls

Critical issues in public procurement: main findings

Critical issues	
Procedural	Timelines
	Contract duration
	Standardisation
	Requirements
	Environmental weights
Service delivery	Technology lock-in
	Technology costs
	Infrastructure and charging/refuelling
	Energy capacity and cost

Critical issues in public procurement: procedural

- Timeliness
- Contract length
- Standardisation
- Requirements
- Environmental award criteria

Critical issues in public procurement: service delivery

- Technology lock-in
- Technology costs
- Energy capacity and costs
- Infrastructure and recharge/refuel

Implications for governance

- Direction
- Market for emerging technologies
- Anchoring
- Private-public cooperation
- Jurisdiction