## skyss ₩



# Procuring zero emission ferry services in Hordaland

1 February 2018

## About Skyss

- Skyss was established in November 2007 and is responsible for almost all public transport in Hordaland County.
- Skyss is an agency under the County Authority, which implements the policies of the County Council.







## Service contracts administered by Skyss

- 11 contracts with bus operators (about 800 buses)
- 1 light rail contract
- 6 trolley buses
- 8 express ferry connections
- 17 ferry connections 21 ferries
  - which will all soon be electric!









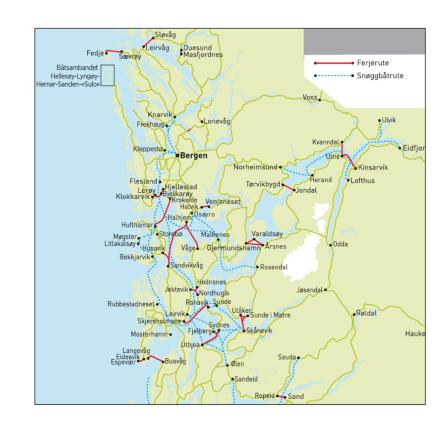




## The ferry connections

• Before the procurement process started, we split the 17 connections into 5 service contracts

- Start of operation for new contracts:
  - 2 connections January 2018
  - 1 connection January 2019
  - 14 connections January 2020







# Mandate for the procurement– January 2015

#### Decision by the County Council:

- To renew the ferry fleet, with the aim of procuring a low-emission ferry fleet
- To secure public funding for emission reduction







# Strategies for the procurement based on funding scheme criteria

- Functional, technology-neutral criteria
  - Minimum requirements and award criteria for the level of emission reduction and energy efficiency
- All criteria at contract level, not connection level
  - Enables suppliers to be flexible and choose different solutions for different connections





## Mandatory requirements and award criteria

- decided by the County Council in 2016
- A maximum CO2 emission level for the whole contract equaling 50% of today's level
- A 25% increase in energy efficiency compared to the current level
- Award criteria (on top of the minimum criteria)
- Price for the whole contract: 70%
- Reduced energy consumption for the whole contract: 15%
- Reduced CO<sub>2</sub> emissions for the whole contract: 15%





## Tools for securing the principle of equal treatment

- Operators should be scored on the total, actual price calculated <u>after receipt</u> of subsidies
  - Models enabling operators to predict the level of subsidy
  - Provide the same information to all tenderers regarding power needs and supply
  - Model for economic sanctions in the event of breaches







## Results

- All connections will be operated by hybrid ferries with an:
  - average CO2 reduction of 88% and an
  - average reduction of energy consumption of 63% per year
- Non-electric operations will operate on biodiesel

- Promised reduction in emission and energy consumption:
  - Contract 1

•	CO2 emissions:	879
•	Energy consumption:	609

Contract 2

•	CO2 emissions:	90%
•	Energy consumption:	65%

Contract 3

•	CO2 emissions:	86%
•	Energy consumption:	58%

Contract 4

•	CO2 emissions:	88%
•	Energy consumption:	65%

Contract 5

•	CO2 emissions:	92%
•	Energy consumption:	74%





### Lessons learned

- Allow ample time for planning
- Take responsibility for infrastructure and power upgrades
- Implement sanctions in the contracts
- Be technology neutral
- Use function criteria
- Let operators compete on environmental aspects







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Thank you for your attention!