

# 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 CO<sub>2</sub> 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 after receipt 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 CO<sub>2</sub> 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
    - CO<sub>2</sub> emissions: 87%
    - Energy consumption: 60%
  - Contract 2
    - CO<sub>2</sub> emissions: 90%
    - Energy consumption: 65%
  - Contract 3
    - CO<sub>2</sub> emissions: 86%
    - Energy consumption: 58%
  - Contract 4
    - CO<sub>2</sub> emissions: 88%
    - Energy consumption: 65%
  - Contract 5
    - CO<sub>2</sub> 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



**Thank you for your attention!**