**To: Open invitation**

**From: Ruter As**

**Request for Information: Alternative Renewable Energy Bus Powertrains**

All Public transport in Oslo and Akershus will run on renewable energy in 2020. This

means an ambitious transformation of the bus and boat fleets in the region. Ruter’s ambition is to quickly implement solutions that we believe are the best in a long-term perspective. We are working to identify partners and concretize our ambitions and plans.

In addition to our ongoing marked dialogue on fully electric busses (BEV), Ruter needs in-depth knowledge of other relevant renewable bus powertrains, which can play a part in public transport in our region in the future.

**Focus of the request for information:**

Developments and outlook for production and commercial implementation of buses for public transport, with renewable alternative powertrains, such as hybrids (including PHEV) with biogas or biodiesel, fuel cell electric vehicles, or 100% biofuels.

* Particular emphasis is on developments by powertrains by bus type, performance, operational range, and outlook of commercial availability/serial production for these
* Estimated index pricing/cost level compared to biodiesel equivalent bus type
* Developments and outlook for associated infrastructure.

The purpose is to determine the key developments around renewable alternative powertrain solutions for Ruter's type of bus services with a horizon to implement form 2017 - 2020 and longer.

The information shall be provided in the attached excel template provided. General comments can be provided as indicated.

All inputs in the excel sheet should consider that a bus will need to be:

* EU/EC standard/approved
* air conditioning and heating suitable for the Oslo region
* adapted to Nordic climatic conditions
* layout relevant for the Norwegian market
* nearing serial production readiness in the year stated

All responses will be treated confidential. Ruter may aggregate the shared information to general information that could be uses and shared with the market as part of the basis for a future tender.

To this end we invite all suppliers to fill out the excel form that can be downloaded in this website no later than **February 28 th 2015.**

Ruter may take contact with your organization to ensure that we get as much relevant responses as possible. Ruter may also invite suppliers who have given a written responds to more detailed dialogue.

Ruter is being supported in this work by Roland Berger Strategy Consultants. **Please send your response or enquiries about this request for information to Gunnar.Albemark@RolandBerger.com** or contact him on the mobile phone +46-72-151-8099.