Making LNG and LBG available in the Nordic market

Olli Nevalainen 08/09/16 – Nordic Biogas Conference





GASUM'S YEAR 2015

NET SALES € 915 million **OPERATING PROFIT** € 126.4 million **BALANCE SHEET TOTAL** € 1,426 million **INVESTMENTS** € 45.6 million **GEARING RATIO** 39,4%



NATURAL GAS SALES 2015 26.0 TWh **BIOGAS SALES 2015** 40,8 GWh **LIQUEFIED NATURAL GAS** (LNG) SALES 2015 376,700 Tn (5,2 TWh) **PERSONNEL 2015** 310 **GASUM OWNERSHIP 2016:** 100 % Finnish State

DRIVERS FOR LNG AND LBG MARKET GROWTH

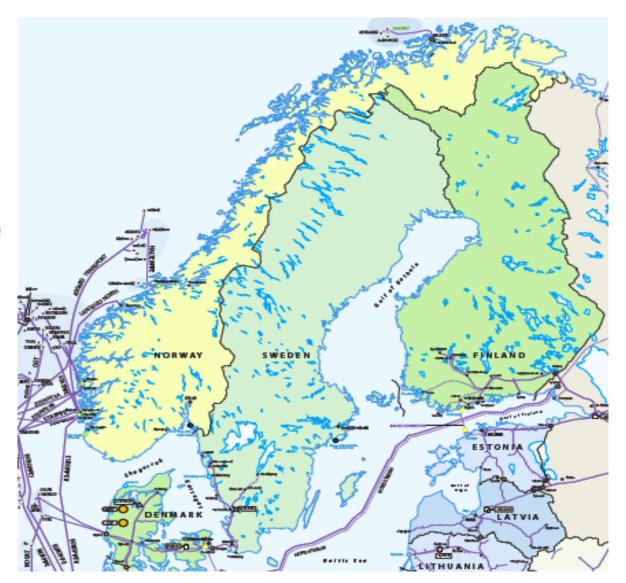
- Increasing emission regulation e.g. in the maritime sector in the Baltic Sea
- Targets for greenhouse gas emission reductions
- Targets for increasing the share of renewable fuels
- Corporate environmental responsibility

- Key segments:
 - Maritime
 - Industrial
 - Heavy duty vehicles

Gasum

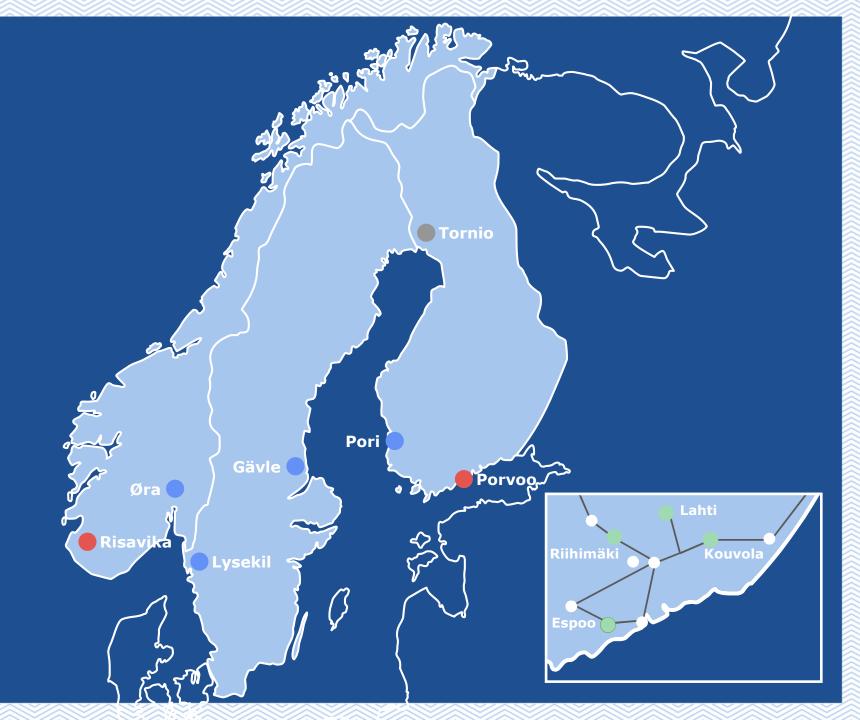
The gas grid in the Nordics is very limited. The Nordic countries need LNG to deliver methane off-grid

The same infrastructure can be used for delivering biogas



Skangas LNG and LBG infrastructure

- LNG/LBG production
- LNG-terminal
- LNG-terminal (joint venture)
- Biomethane production



BIOGAS PRODUCTION FROM WASTE RAW MATERIAL IN GASUM



7 GWh/a



ESP00, 2012 24 GWh/a



LAHTI, 2014 50 GWh/a



9+(1) biogas plants 470 000 t/a

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HONKAJOKI, HUITTINEN, KUOPIO, OULU, 2016 7 GWh/a

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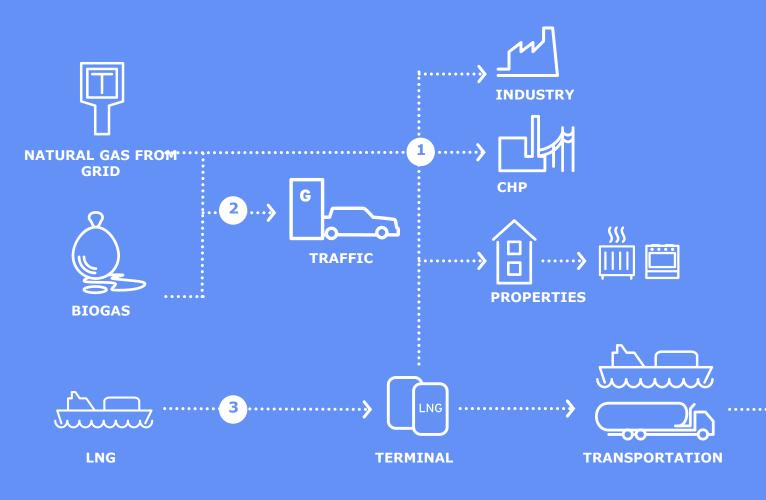
turku, vehmaa, 2016 24 GWh/a

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811німäкі, 2016 50 GWh/а

(facility will be operational in 2016, connected to the grid)

SUPPLY CHAINS



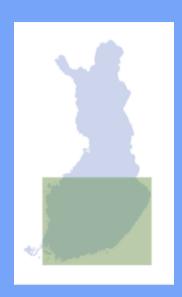
- Natural gas for industrial and municipal electricity and heat production, as well as home needs.
- Compressed natural gas (CNG) and biogas for transport use
- Liquefied natural gas (LNG) for maritime transport, industry and heavy traffic outside the gas pipeline network



INDUSTRY

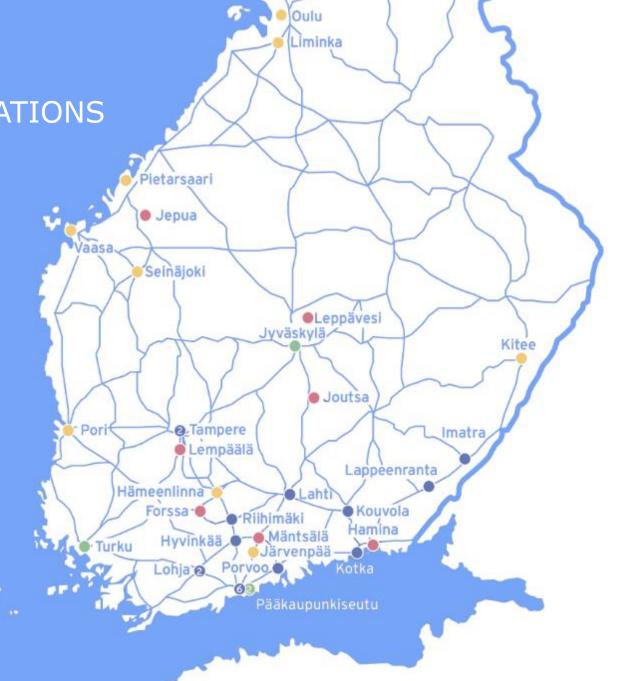






24 + 35

- Gasum stations
- Other operators
- In planning stage
- Upcoming in 2016-2017





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