VISION: LEADING THE NORDIC GAS ECOSYSTEM
MISSION: CLEANER ENERGY
CORNERSTONES OF STRATEGY IMPLEMENTATION

EXPAND GAS MARKET

BIOGAS
Leading circular economy partner in the Nordics

NATURAL GAS
Leading gas provider in Finland and entry to European market

LNG
Leading LNG provider in Marine and Industry segments in the Nordics
GASUM IS ACTIVELY DEVELOPING THE NORDIC GAS ECOSYSTEM
Gasum biogas plants are Platforms for further expansion

Production capacity ~650 GWh/year
12 biogas plants process ~800 000 ton biomassa/year
• Significant emission reductions and increased sustainability are required
• Customer demand for environmentally friendly products and services is increasing rapidly across the Nordics
• Real demand for cost-efficient solutions, high security of supply and right business partnerships
• All alternative fuel solutions are needed to reach set targets

THE GROWTH POTENTIAL FOR THE EXPANSION OF NORDIC GAS ECOSYSTEM IS ENORMOUS

Total market size in the Nordics: ~750 TWh

- Road Transport: ~190 TWh/a
- Industry: ~90 TWh/a
- Marine: ~160 TWh/a
- ~67 TWh/a
- ~57 TWh/a
- ~86 TWh/a
- ~140 TWh/a
- ~180 TWh/a
- ~45 TWh/a
The production potential for biogas is good

Swedish biogas strategy $15_{(2030)}^{20}$ TWh

$7$ TWh

$2$ TWh

$70$ TWh (Nordic)
• High potential in segments where large investments are needed

• Established segments are exposed to electrification

Gasum strategy covers the full value chain

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LNG – a clean solution
- A great step for the maritime segment

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Nordic Gas Ecosystem Developing

The Potential of Gas for Heavy Duty Vehicles/Heavy Road Transport

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EU and national climate goals steer the transport sector towards a cleaner tomorrow in the Nordics.

- In Finland, by 2030 we aim to reduce traffic-related emissions by 50% compared to 2005.
- In Sweden the reduction should be 70% by 2030.

Companies have a strong need for emission reductions in their supply chain. Transport sector plays a key role in emission reduction in several cases.
LNG infrastructure is developing rapidly all over Europe.

LNG offer cost-efficient way to decrease carbon footprint in logistical chain and utilize local resources in biogas production.

Currently, there are a total of 40 gas filling stations in Finland, of which Gasum has 27 and LNG is available in Turku, Helsinki, Vantaa, Jyväskylä.

Gasum is investing heavily in gas filling station network in the Nordics

In 2016, EU granted 2.7M€ funding for Gasum’s project to develop HDV LNG fueling station network in Finland.

In 2018, the Swedish Environmental Protection Agency granted Gasum 9.3 M€ for 16 new LNG/LBG filling stations around Sweden. Target is 25 during 2020

Program for 35 new filling stations in Finland incl CNG and LNG stations
GASUM’S HEAVY-DUTY GAS FILLING STATION ROAD MAP

- Gasum Market Entry case

LG/LNG gas filling stations
- Identified location (market entry phase)
- Existing
- Target for 2018
WHY CHOOSE GAS FOR HEAVY DUTY VEHICLES?

**Technically available**
- Technology for natural gas engines has continued to develop, closing the performance gap to diesel
- New generation of vehicles are becoming more attractive for operators

**Competitive road fuel**
- Gas pricing is based on a stable pricing model, which gives a strong commercial incentive for switch to LNG over oil-based fuels
- Fueling network is expanding

**Helps cut emissions**
- No fine particulate emissions, low nitrogen oxide and carbon dioxide emissions
- Enables circular economy – biogas
IN ADDITION GASUM’S NATIONWIDE BIOGAS PRODUCTION NETWORK PRODUCE CIRCULAR ECONOMY FERTILIZERS AND NUTRIENTS
CREATING A POSITIVE CYCLE WITH BIOGAS – CIRCULAR ECONOMY FUEL

100% local and domestic
Environmentally friendly
Helps create jobs
Mikä rooli meillä on tämän maiseman säilyttämisessä?
Thank you

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