MF Samsø

- 600 pax
- 160 cars
- 98 meters long
- 4 dual fuel engines

LNG as a marine fuel on the island of Samsø
MF Samsø

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Fossil free Island
WE ARE IN THE CENTER OF OUR OWN LIFE

HERE WE CAN DO SOMETHING!

JøRGEN HERMAaSEN

• Bigger Picture
Stine Arensbæk
Why we choose LNG?

LNG operating costs compared to MGO?
Forecast marine fuel price paths

- **LNG fuel**
- **HFO**
- **MDO**

Price [$/mmbtu]

- 2011
- 2015
- 2020
- 2025
- 2030
- 2035
Bunkering unit; 2%

Distribution; 26%

LNG price; 72%
LNG operating costs compared to MGO?
2014 EU tender for MF Samsø
12 % less in favor for LNG!
World LNG Trade (2015)

Total Sales = 337mt
(13% of global gas consumption)

Source: IEC modeling

NB. All figures are rounded million tonnes of physical deliveries in CY2015. Excludes amounts <1mtpa.
Methane emissions per animal/human per year

- Western cattle: 120kg
- Non-western cattle: 60kg
- Sheep: 8kg
- Pig: 1.5kg
- Human: 0.12kg

SOURCE: Nasa's Goddard Institute for Space Science
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LNG Pit-stop!

Bunkering once a day
Bunkering time - 10 to 15 minutes
40m³ LNG tank on board
Bunkering once a day
Bunkering time - 10 to 15 minutes
FULLY AUTOMATIC AND FLEXIBLE LNG BUNKERING FACILITY

- Fast bunkering (pit stop)
- One man, one operation panel > full overview of ship and port operations
- 100% emission free system
- First of its kind
- Standard KC products > quick delivery time
- Plug & play solution
Daily consumption app. 10 m³
New LNG trailer delivered every 3 to 5 days - depending on consumption
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LNG and authorities

- Danish Maritime Authorities
- Risk management agencies - national and local. Municipal building and environment agencies etc.

COORDINATION!
authorities

Danish Maritime Authorities

Risk management agencies - national and local.
Municipal building and environment agencies etc.

COORDINATION!
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Fossil free Island
LBS - Fossil free ferry

Fossil free transport
Biomass

Manure

Agricultural waste

Energy crops
Methane yield from biomass resources on Samsø
Biogas
LBG production
Distribution
LNG from december 2014
LBG from december 2016!?
As you can see, there's plenty going on! Now we have lots of wind turbines. Down there is Samsø’s brand-new learning center, the Energy Academy, where kids and grownups from all over the world come to learn about what we’ve achieved, and to talk about new ideas for creating, sharing, and saving energy.
Next step towards fossil free fuel soci
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LNG and authorities

[Images and text related to the topics]