



Potential BC control policy

Kaare Press-Kristensen

M.Sc. in engineering, Ph.D.

Senior advisor on air quality

Danish Ecological Council

kaare@ecocouncil.dk

Member of the Clean Arctic Alliance

Clean Arctic Alliance



Members: 18 international NGOs.

Goal: An IMO ban on HFO as marine fuel in the Arctic.

Impact: Reduction of BC emissions and the long-term consequences of oil spills/discharges in the Arctic.

More info: www.hfofreearctic.org

Arctic BC control technologies



Short run (could be done tomorrow):

Distillate fuel (+ slow steaming): Reduces BC 30 %? (40 %?).

Would reduce consequences (and risk) of oil spills/discharges.

Medium run (could be done within 3-5 years):

Distillate with filter, methanol with filter, etc.: Reduces BC 80-95 %.

Long run (more than 10 years from now):

H₂ or NH₃: Reduces BC 100 % (acute effects of spills?).

(No future for LNG. LBG and biofuels will be used elsewhere).

Arctic BC control policies



Short run:

An IMO ban on the use of HFO in the Arctic.

Will increase living costs about 2,2 € per citizen in Greenland per year and will mainly be payed by rich people in the cities.

Medium run (from 2025):

BCECA (Black Carbon Emission Control Area) in the Arctic.

Requiring distillate/methanol with filter, (LNG/LBG temporarily) etc.

Impact of Arctic control policies



Will a switch to distillate stop global warming in the Arctic? **No**

Will a switch to distillate significantly reduce BC in the Arctic? **No**

Will a switch to distillate be possible here and now: **Yes !**

Will a switch to distillate be cost-efficient to reduce BC-deposition in the Arctic (\$ per avoided kg BC deposition): **Yes !**

(High deposition rate for emissions in the Arctic)

Impact of Arctic control policies



HFO versus distillate (Greenland versus Iceland)

Greenland HFO:

<https://www.dropbox.com/s/xvwov3sm8x6fhak/HFO%2C%20Greenland%202018.mov?dl=0>

Iceland distillate:

<https://www.dropbox.com/s/6co1tcmr0uhrbvz/Video%2004-08-2019%2018.54.47.mov?dl=0>

Personal view



Using HFO in the Arctic is like burning down rain forest in South America ... it is complete disrespect of the few unspoiled ecosystem left on this planet.



Hurtigruten don't use HFO in the Arctic.

Questions

Conference on shore power for cruise ships.
The Danish Parliament.
Sep. 24th from 10-15.30.



Danske Maritime



Parliament conference: Shore power for cruise ships

Cruise ships in ports contribute significantly to local air pollution. Shore power eliminates air pollution and significantly reduces the climate impact and noise pollution from cruise ships in ports. However, only a few shore power facilities for cruise ships exist in Europe since ports only invest in shore power if they know enough cruise ships will use it to give an acceptable pay-back time. Hence, coordinated actions between cruise cities are required to accelerate investments in shore power facilities to limit pollution from the increasing number of cruise ships in our cities. Key target groups: Politicians, public servants and ports in cruise cities and the cruise industry.

Date/Time: September 24th 2019 from 9.50-15.30 (registration, breakfast and coffee from 9.00).

Venue: Danish Parliament, Christiansborg Palace, Congress hall (DK: *Christiansborg, Fællessalen*).

Attention: Due to security check participants should be at the parliament entrance no later than 9.30.

Register: Shorepower@outlook.dk (participation is free but we will charge a no-show fee of 100 euro).

Host: Mette Gjerskov, parliament member, spokeswoman of environment, Social Democratic Party

Program

9.00-10.00: Arrival, registration, coffee and breakfast.

10.00-10.10: Welcome

Mette Gjerskov, parliament member, spokeswoman of environment, Social Democratic Party

10.10-10.30: Shore power facilities

Peter Castberg Knudsen, technical manager, PowerCon

10.30-10.50: Shore power in Kristiansand

Trond Sikveland, Port Area Manager, Port of Kristiansand

10.50-11.10: Shore power as clean solution

Kåre Press-Kristensen, senior advisor, Danish Ecological Council

11.10-11.30: Shore power from a port perspective

Sotiris Raptis, Senior Policy Advisor for Environment and Safety, ESPO

11.30-12.00: Panel: Shore power from a city perspective

Ninna Hedeager Olsen, Environmental Mayor, Copenhagen City Council

Julie Andersland, Committee for environment and city development, Bergen City Council

Dr. Torsten Sevecke, State Secretary of the Ministry for Economy, Transport and Innovation, Hamburg

12.00-13.30: Lunch, coffee/cake and networking

Afternoon 14.00-15.30

Participants: Boat trip organized by Copenhagen Malmö Port (see on the back cover of this program).

City representatives & port managers: Closed meeting on strategies for shore power in the Parliament.

