

# CASE: Swedish new icebreakers

The state-of-the-art icebreaker with unrivalled energy efficiency will be the first methanol-ready icebreaker in the world.



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ATLE, FREJ & YMER  
Built 1974-77  
Length 104m Beam 23,8m  
Shaft output 16200 kW

Image: SMA

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## IB 2020 – Design result

**Design that imply state of the art solutions and becoming the world's most environmentally sustainable icebreaker**

- Hull with a propulsion solution that can break an ice channel wider than the hull when needed
- Innovative icebreaking with emission reduction
- Energy optimisation (consumes 45% less energy than the current icebreakers of Atle-class)
- Around 70% less CO<sub>2</sub> emissions than the Atle-class
- Energy storage (battery hybrid)
- Energy recycling



Image: SMA

# Aker Arctic

The Ice Technology Partner



## Thank you

AKER ARCTIC TECHNOLOGY  
Merenkulkijankatu 6  
FI - 00980 Helsinki, Finland  
tel.+358 10 323 6300  
info@akerarctic.fi  
www.akerarctic.fi

