

KONUR ERU LÍKA
Í SJÁVARÚTVEGI



Orkuskipti á hafi

Kolefnisfrí framtíð

Sigurður Ólason, framkvæmdastjóri Green Fuel

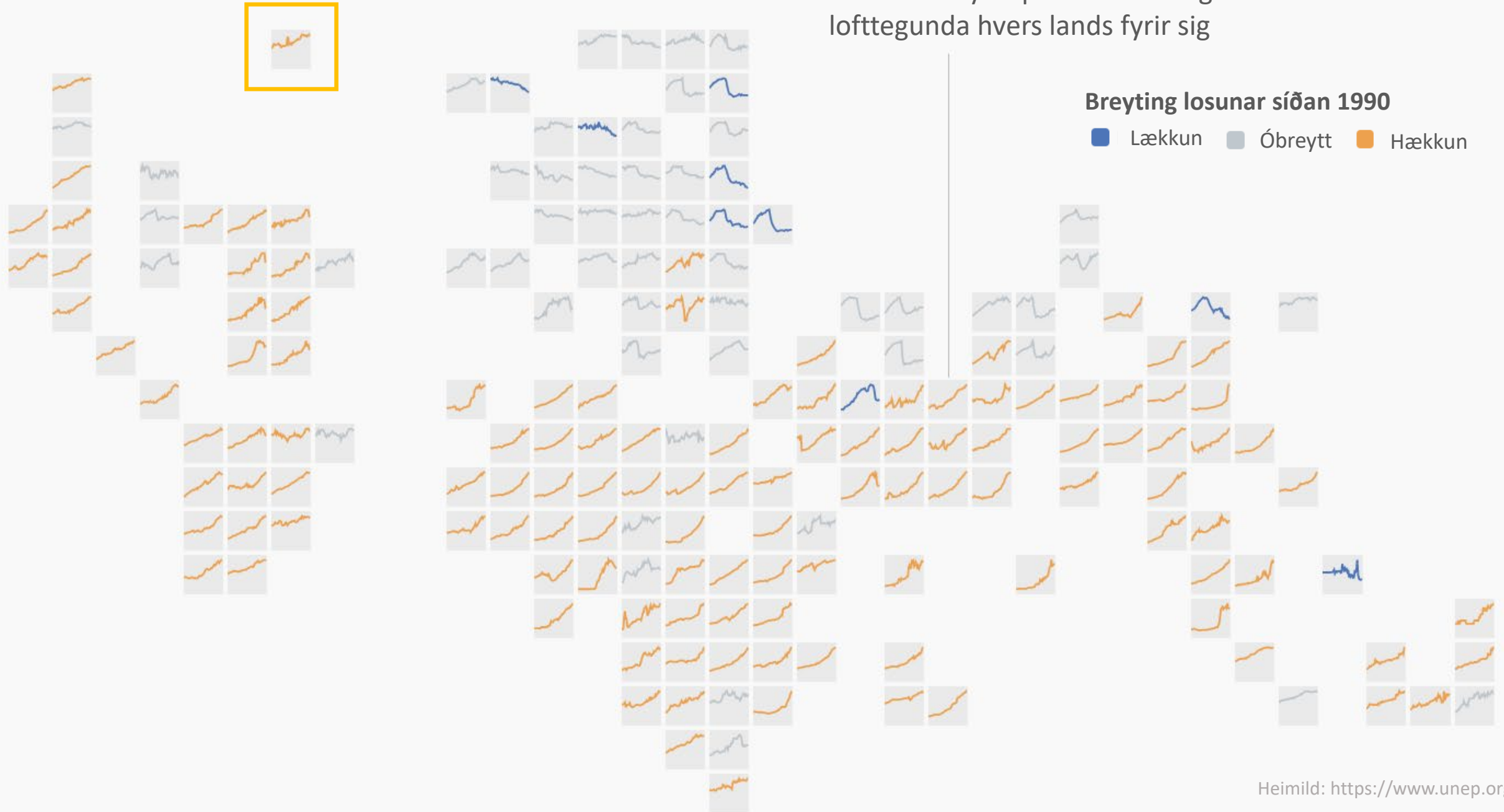


1

1.5

2.8

Hver kassi sýnir þróun losunar gróðurhúsalofttegunda hvers lands fyrir sig



A photograph of a massive glacier wall, likely the Perito Moreno Glacier, with a large iceberg calving into the water, creating a massive splash. The glacier is a deep blue-grey color, showing horizontal layers of ice. The water is dark, and the splash is white and turbulent.

#ActInTime

1.5 °C

GREEN FUEL®

ATOME



An aerial photograph of a large dam and reservoir. The dam is a long, curved concrete structure with multiple spillways. The water in the reservoir is a deep blue-green color. The surrounding landscape is green and hilly. The sky is clear and blue.

ATOME

green hydrogen & ammonia production

The first UK listed
pure-play hydrogen producer



A white line map of Iceland is centered on the page, serving as a background for the text.

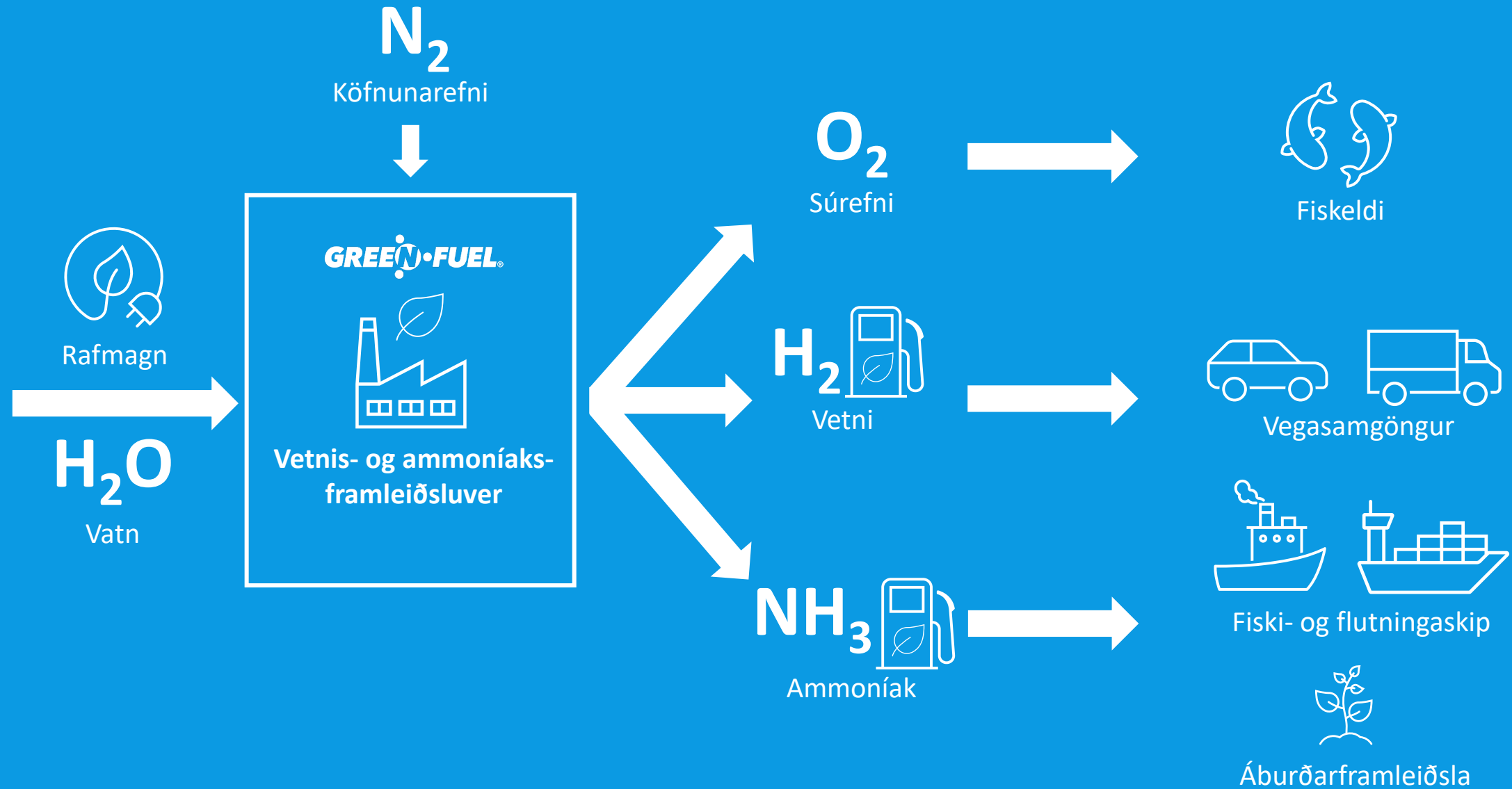
2040

**Kolefnahlutleysi og
óháð jarðefnaeldsneyti**

*Verðum að byrja ekki seinna en **strax!***

Styrkir til verkefnisins





Tímalínan

Vetnis- og ammoníaksframleiðsluver

Byggt upp í þremur áföngum

Árið 2027 þá gæti Green Fuel framleitt rafeldsneyti fyrir **1/3 af fiskiskipaflotanum** og þar með dregið úr losun um allt að 130.000 tonn af CO₂.

Fræðilega gæti Green Fuel dregið úr losun Íslands um allt að 750.000 tonn af CO₂ fyrir 2040.

3

2035

Áfangi 3: 600MW (stækkun 500MW)
Kolefnisjöfnun, fiskiskip, fraktarar og þungaflutningar.
Kolefnisjöfnun: 750.000 tonn

2

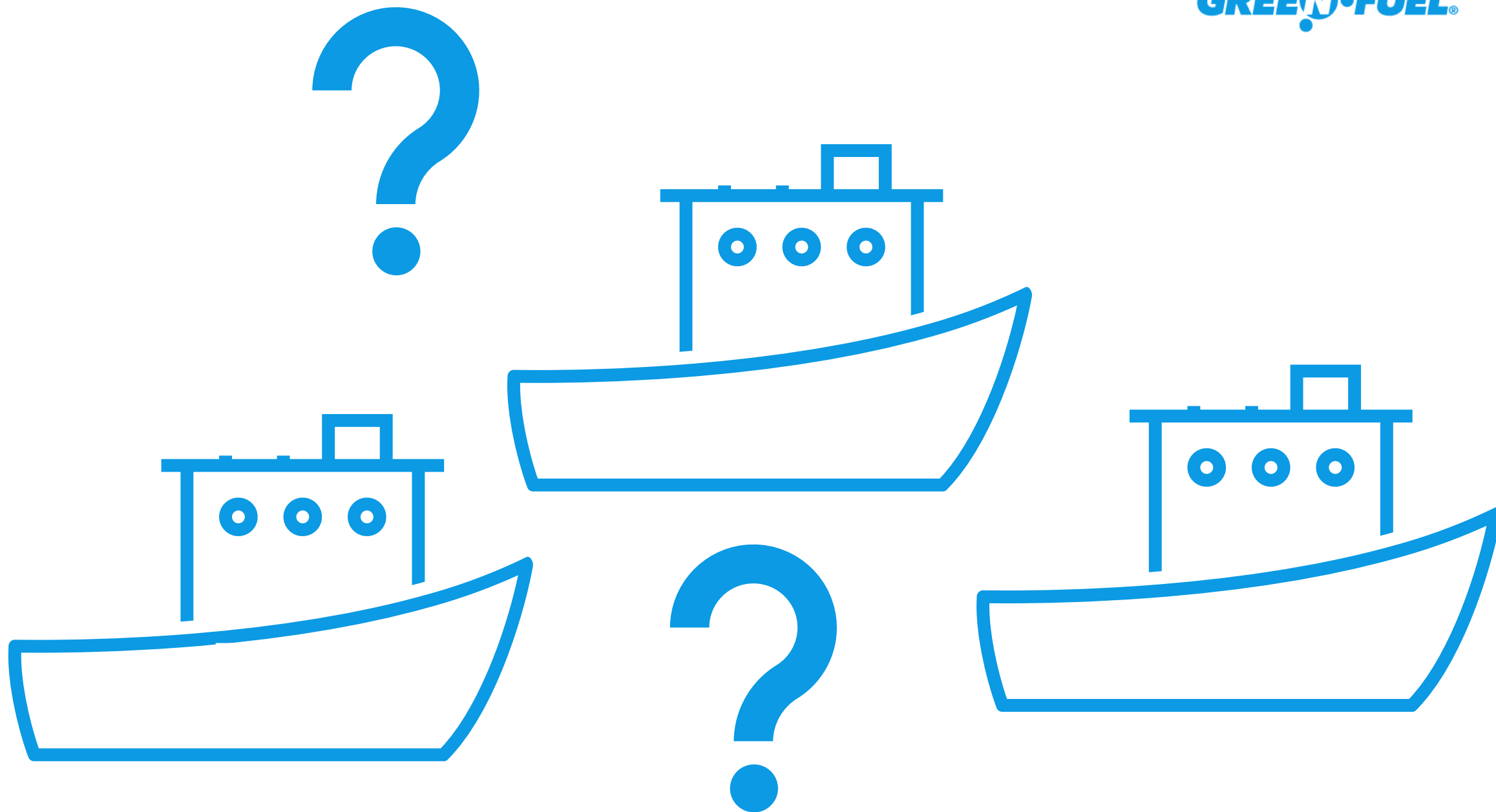
2027

Áfangi 2: 100MW (stækkun 60MW)
Viðbótarfjárfesting um 170mUSD
24 milljarðar ISK
Kolefnisjöfnun: 130.000 tonn

1

2025

Áfangi 1: 40MW (~340 GWst)
Heildarfjárfesting um 130mUSD
19 milljarðar ISK
Kolefnisjöfnun: 50.000 tonn



100%



Hvað myndu þau velja?

GREEN•FUEL®

FISK

MEÐ EÐA ÁN
KOLEFNISFÓTSPORS

*Rekjanleiki er aðalatriðið fyrir upplýsta
neytendur*

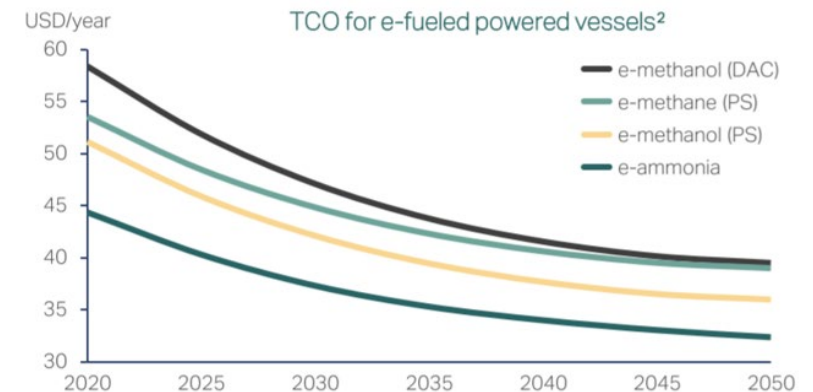
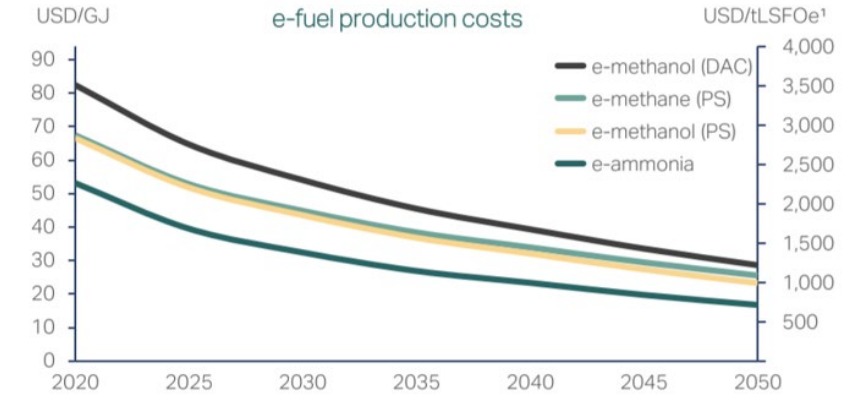
A white line-art map of Iceland is centered on the page, showing the main island and surrounding smaller islands and reefs.

KOLEFNISFRÍ FRAMTÍÐ

Vetni og/eða ammoníak

Ammoníak sem rafeldsneyti

- **Kolefnisfrítt rafeldsneyti**
 - Í framleiðslu og notkun
- Ammoníak **ódýrasti valkosturinn** varðandi rafeldsneyti
 - í framleiðslu
 - heildarkostnað við eignarhald á skipi



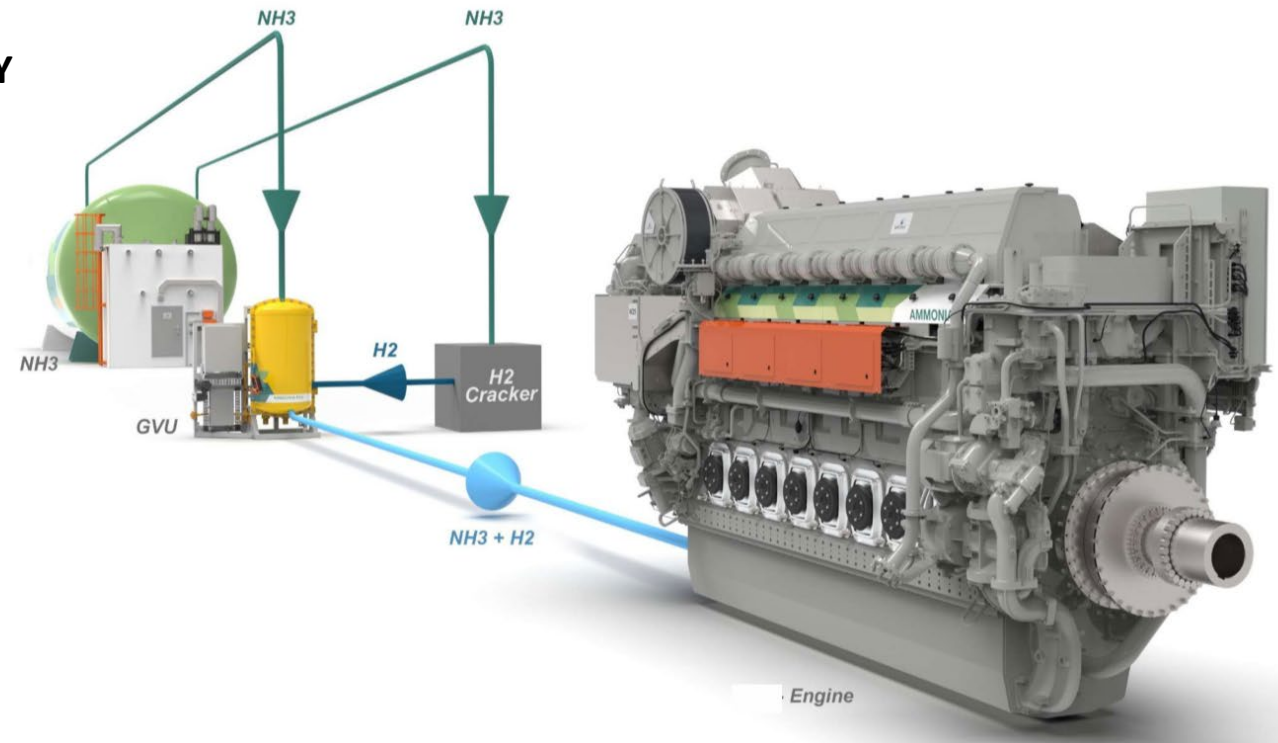
WÄRTSILÄ ryður brautina

Pure Ammonia engine concept with hydrogen cracking

ONS INNOVATION AWARD SEPTEMBER 2022 NORWAY



We, the Innovation Award Jury, find the project by Wärtsilä to de-carbonize shipping by ammonia a worthy winner of this year's ONS Innovation Award.



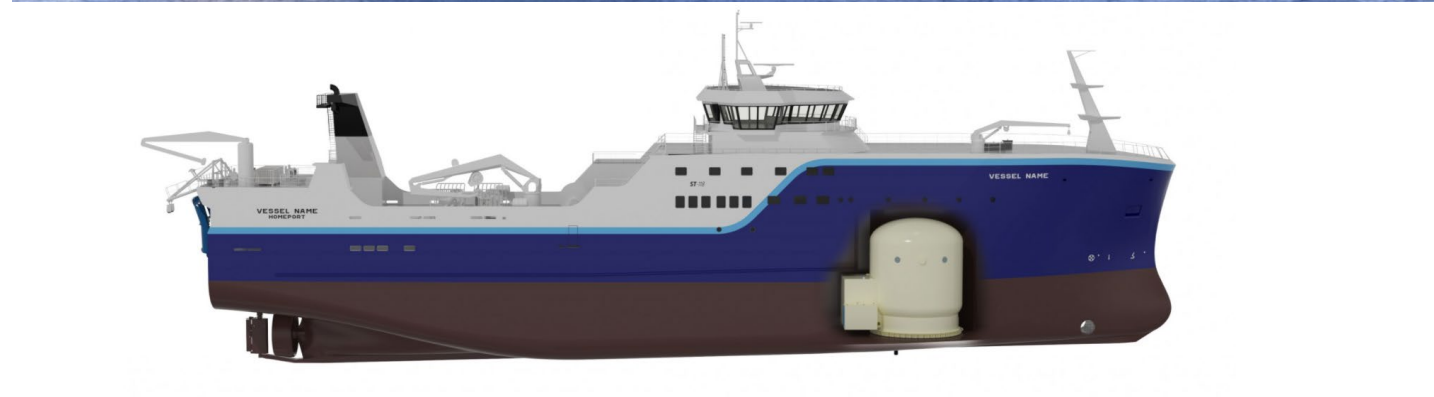


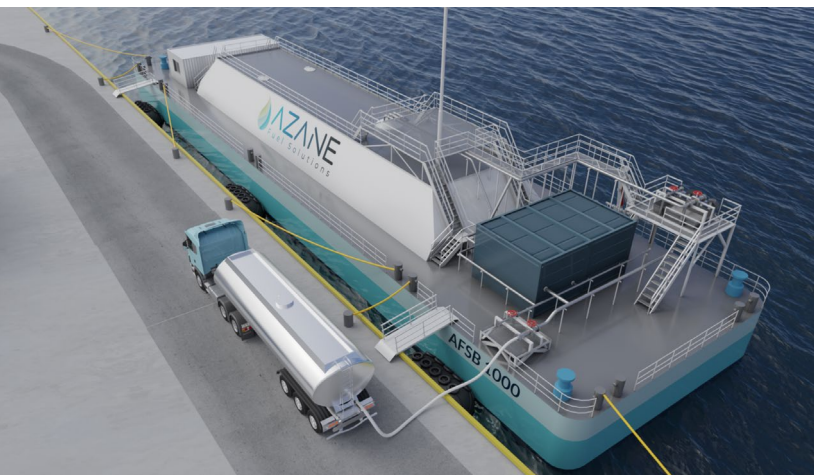
Green Shipping Programme

“... we think it will be **possible to design and install safe solutions** to utilize ammonia as a fuel on passenger vessels.”



Heimild: Ammonia as a fuel - Green Shipping Programme





"Our vessels will be **carbon free**, future proof, and holistically designed for ammonia fuel from the ground up", says André Risholm, Founder & CEO of Amon Maritime.



Heimild: <https://www.azanefts.com/>
Heimild: <https://www.amonmaritime.com/>

A white line-art outline of the island of Iceland is centered on the page, serving as a background for the text.

KOLEFNISFRÍ FRAMTÍÐ

Vetni og/eða ammoníak

**„BESTA LEIÐIN TIL AÐ SPÁ
FYRIR UM FRAMTÍÐINA ER
AÐ SKAPA HANA SJÁLFUR“**

Peter Drucker

SKÖPUM FRAMTÍÐINA SAMAN

Verum leiðandi á heimsvísu í orkuskiptunum sem nú fara í hönd

#ActInTime



TAKK FYRIR