



Hydrogen buses in Iceland



Jóhannes Rúnarsson CEO of Strætó

# Besta leiðin

í skólann



# ZERO EMISSION

## 13 cities that are starting to ban cars



Leanna Garfield  

🕒 Feb. 27, 2018, 10:30 AM 🔥 270,307



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### Oslo, Norway will implement its car ban by 2019.

Madrid plans to ban cars from 500 acres of its city center by 2020, with urban planners redesigning 24 of the city's busiest streets for walking rather than driving.



# Hydrogen buses in Iceland

- Part of JIVE II
- Increase commercialization of H2 buses in Europe



# Joint JIVE and JIVE 2 projects overview and objectives



## JIVE I & II – hydrogen busses in Europe

### Objectives

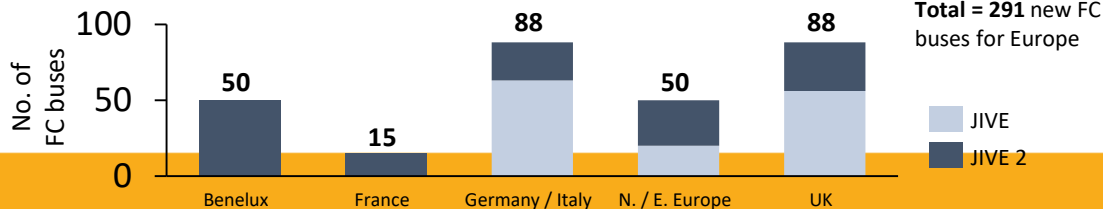
- Deploy 291 new FC buses in 20 cities across 9 members states; more than tripling the size of Europe's FC bus fleet.
- Joint procurement in clusters to access economies of scale: bus prices must be a maximum of €650k/625k for JIVE/JIVE 2 respectively.
- Operation of 50% of the FC buses for at least 36 months of the project, HRS availability near 100% and bus availability of 90%.
- Procurement exercise will aim to establish a universal framework for new cities to order their own buses more easily.
- Concerted data collection will provide operational feedback to service providers and bus manufacturers, which will further improve the operational performance of FC buses in Europe.

### Funding

- The JIVE projects are expected to cost a total of €212m, €57m of which is provided by the European Commission's Fuel Cells and Hydrogen Joint Initiative (FCH JU).



FUEL CELLS AND HYDROGEN  
JOINT UNDERTAKING





## Situation 2018

- Straeto bought 14 BEB.
- About 500.000 liters of fuel won't be needed this year due to BEB.
- Ongoing reduction due to hydrogen buses and other zero emission buses.





Aðgerðaáætlun í loftslagsmálum

2018 – 2030

# Goals and targets

- Government introduced recently an action plan about zero emission and ban of fossil fuel vehicles from 2030.
- Straeto had already stated that the fleet will be zero emission in 2030.





# Status

- Fleet in Reykjavik 2017
  - 152 DIESEL
  - 2 CNG
- Fleet in Reykjavik 2018
  - 138 DIESEL
  - 2 CNG
  - 14 BEB
- Fleet in Reykjavik 2019
  - 133 DIESEL
  - 2 CNG
  - 14 BEB
  - 5 HYDROGEN

- CO2 footprint 2017
  - 16,5 millj. tons



- Co2 footpring 2018
  - Approx 15 millj. tons
  - 500.000 liters less usage of diesel.

- CO2 footpring 2020
  - Approx 14,5 millj. tons
  - 700.000 liters less usage of diesel.







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