



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *Norway* Update

31<sup>st</sup> IPHE Steering Committee Meeting

10 – 11 April 2019

Vienna, Austria

# Announcements and/or New Initiatives (*Norway*)



*Please include only recent announcements or new initiatives since the last IPHE meeting that are related to the following topics. If there are no announcements under a specific topic, please say N/A.*

- **Investments/Funding**
- **Collaborations**
- **New research & development, demonstration and or deployment activities**
- **Other**

# Examples of Lessons Learned and Impact (Norway)



*Please include up to 3 examples of policies, regulations or mandates that have been used in your country to deploy sustainable energy technologies. Please include a lesson learned for each example (i.e. if you had to do it all over again, what would you do different? Or what worked well? )*

Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
The Government policy states that zero-emission technology (and low-emission technology) should be included in all future tenders for public ferries, when the technology allows for it.	Development of hydrogen-electric ferry is underway. Contract signed January 2019. Ferry is planned to be in operation 2021.
Energi21 is the Norwegian national strategy for research, development, demonstration and commercialization of new energy technology. The strategy was revised in 2018 and highlights hydrogen as one of the prioritized areas	R&D funding within the hydrogen area will remain strong in Norway in years to come.
The National Transport plan (2018-2029) includes an ambitious climate strategy with specific targets related to uptake of zero-emission technology in the transport sector., dependent on technology maturity	Zero-emission vehicles, particularly Evs, are being widely deployed in Norway. Several demonstration projects ongoing within maritime industry related to hydrogen/FC for zero-emission transport.

# Applications - Current Status and Goals (Norway)



Application	Status (As of <i>Feb, 2019</i> )	Goal (For <i>Year</i> )
Fuel cell vehicles	139	<i>No specific goal established for FCVs. Target of 100% market share of zero-emission vehicles in 2025</i>
Hydrogen stations	5	<i>Expected 5 more in 2019</i>
Fuel cell buses	5	<i>Expected 10 more from 2020</i>
Electrolyzers	<i>Insert number</i>	<i>Insert number</i>
Primary fuel cell power units	<i>Insert number</i>	<i>Insert number</i>
Backup power fuel cell power units	<i>Insert number</i>	<i>Insert number</i>
<i>Others applicable to your country (examples: Power to gas, rail, marine, trucks, etc.)</i>	<i>Hydrogen produced in Norway (ca. 225000 tonne) is mainly used for ammonia and methanol production.</i>	<i>Insert number</i>

# Thank you



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