



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *Germany* Update

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

10 – 11 April 2019

Vienna, Austria

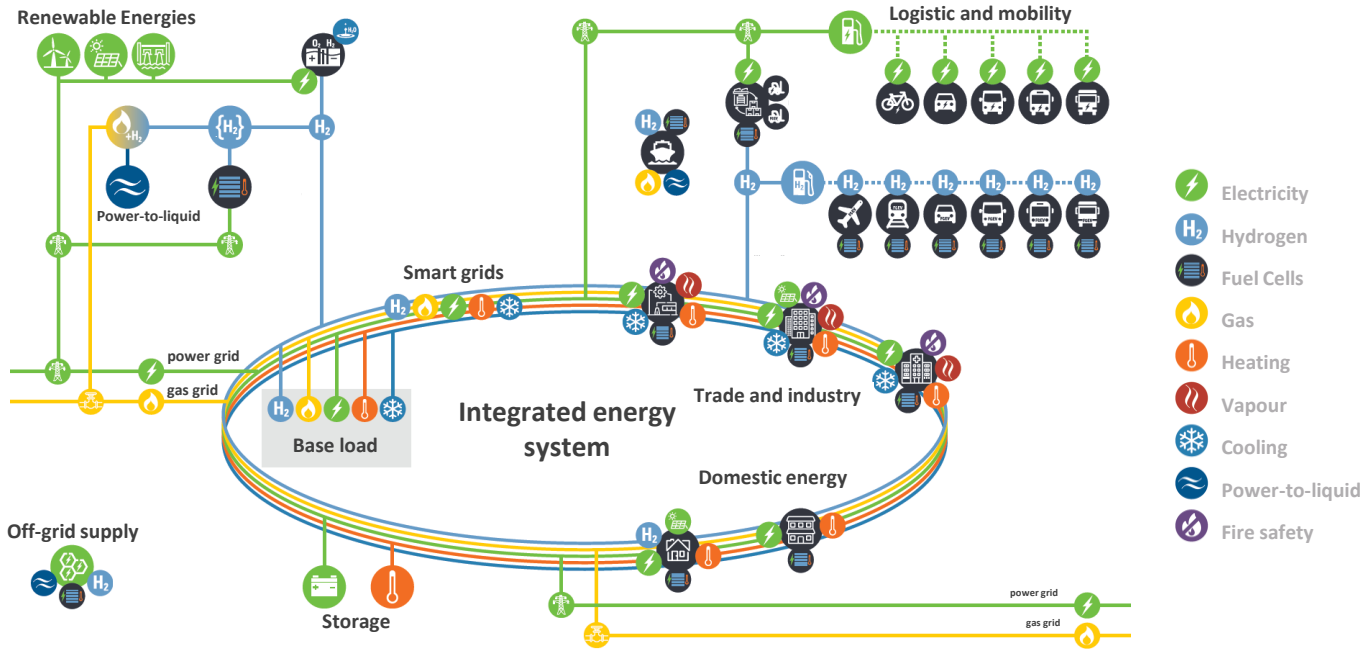
# Announcements and/or New Initiatives

## Germany



### HYLAND

#### Next step for the deployment of hydrogen technologies



Flexible funding framework within the NIP for regional, integrated projects with support of

HyStarter: Concept development

HyExperts: Stakeholder network

HyPerformer: Subsidies for deployment



# Examples of Lessons Learned and Impact

## Germany



Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
Subsidies within the NIP for the deployment of hydrogen technologies in the transportation sector	<ul style="list-style-type: none"> <li>• Isolated funding for single components not suitable</li> <li>• Integrated, flexible funding activities – Hyland</li> <li>• Sector coupling has to be considered to get early business cases</li> </ul>
Demonstration projects for Power-to-Gas technologies within different funding programs (>50 systems deployed)	<ul style="list-style-type: none"> <li>• <b>Step 1:</b> Demonstration is required for the integration of large-scale PtG systems</li> <li>• e.g. 'Reallabore', Hybride project, Element One project</li> <li>• <b>Step 2:</b> Long-term mechanisms for hydrogen business cases in targeted markets</li> <li>• e.g. Renewable Energy Directive II, CO2 reduction targets for the transport sector</li> </ul>

# Applications - Current Status and Goals

## Germany



Application	Status (As of April 2019)	Goal (For 2020)
Fuel cell vehicles	505	n.a.
Hydrogen stations	64	100 (400)
Fuel cell buses	21	n.a.
Electrolyzers	> 55 MW	n.a.
Fuel Cell Truck	2	n.a.
Telecom backup units	> 400	n.a.
Trains	2	n.a.

# Thank you



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