



Electric Power  
Technology Platform

**RWE**

# IERE Technology Foresight

**IERE – RWE Technology Scouting project on Hydrogen**

Status: 11/2019

# The Technology Foresight project is structured in 3 phases focusing on scouting, research and collaboration opportunities.

IERE has started the next IERE in-depth research on hydrogen. The main purpose of this project is to share the hydrogen related information in order to foster collaboration among members.

The participants are representatives of companies and research institutes all over the world and being an active member of IERE.

This project consists of 3 phases with a specific target:

## Phase 1 - Scouting

Share the international perspective on current status of technology, market and R&D and identify most relevant technology – market combinations.

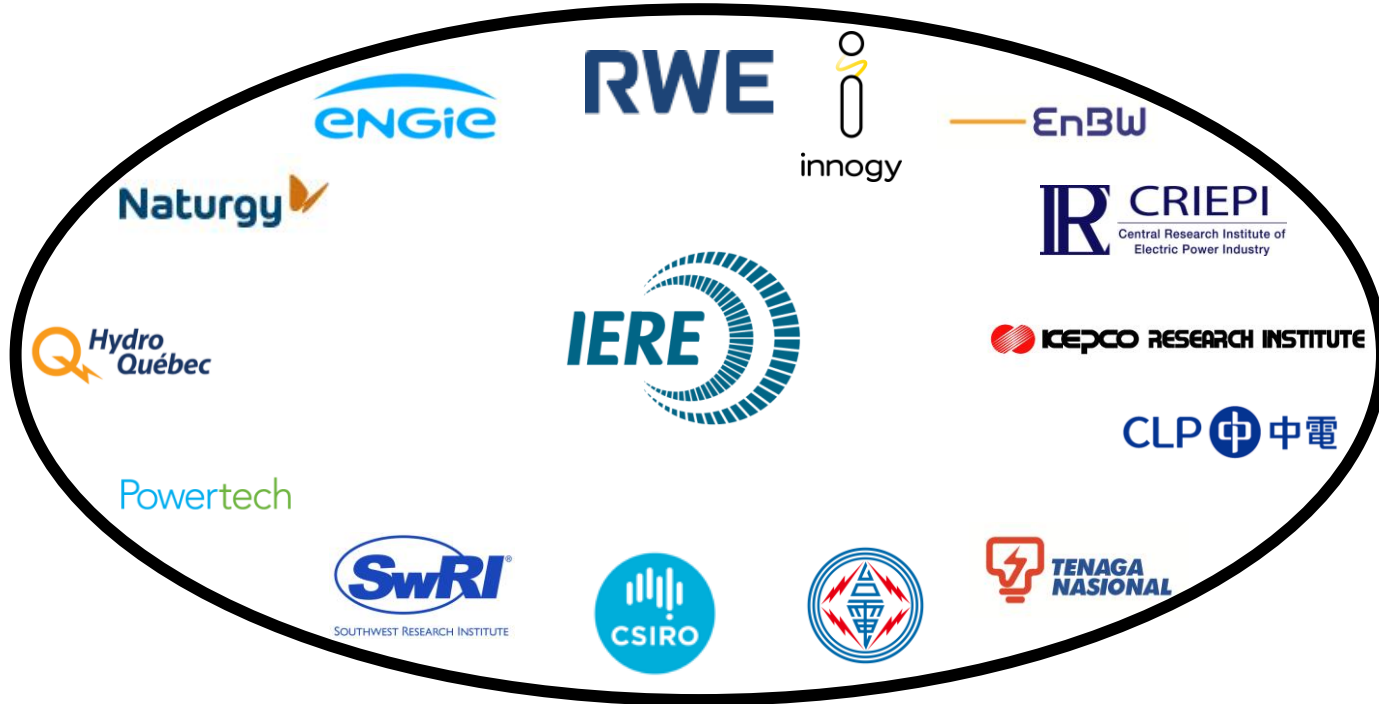
## Phase 2 - Research

Focus on the future perspectives and the most relevant R&D demand and collaboration opportunities.

## Phase 3 - Collaboration

Develop collaborative hydrogen related projects.

# 14 IERE member companies join the project.



# The focus in phase 1 is the technology - market evaluation on hydrogen in the countries of the participating companies.

## Goals

International state of the art technology – market perspective from industries for industries.

### Techno-economic evaluation

Technology solutions/ -supplier  
Costs and cost-reduction potential

### Market opportunities

Utilisation technologies of H2 & by-products  
Most relevant sectors and market value pools

### Framework

National targets and political/regulatory frameworks  
Relevant funding programs and volumes

### Future perspective

Aggregating and analysing findings: Interpretation and guidance for indications for Innovation, Research & Development and business opportunities.

## Scope

Technologies

1

Production of Hydrogen

2

Transportation / Storage

3

Utilisation technologies and  
Hydrogen markets/sectors

4

National/regional funding schemes  
(Political / Regulatory framework)

Markets

# The results of phase 1 shall be presented on the IERE Workshop in Brisbane in June 2020.

## Phase 1: Scouting

## Phase 2: Research

Phase 1 – Scouting  
International perspective on current status

Phase 2 – Research  
Emerging Technology-Market study

Lead: RWE

Lead: Company with R&D focus

Item	2019				2020						
	09	10	11	12	01	02	03	04	05	06	07
Milestones	◆ Beginn phase 1				◆ Final result	◆ Beginn phase 2		◆ Final scouting report			
Meetings	▲ Kick-off	▲ Call 1	▲ Call 2		▲ Call 3						
Publication										▲ IERE Workshop Brisbane	