

N.ERGHY Members' Expertise



The Name of the Organization

PSI - Paul Scherrer Institut

Areas of Expertise

Transport Pillar

1.1 Road Vehicles Applications

Description

1.2 Non-road Vehicles (including materials handling) Applications

Description

1.3 Auxiliary Power Units (APU)

Description

1.4 Hydrogen Refueling Infrastructure (HRS)

Description

1.5 Stack Components

Description
Membranes, Catalysts, GDL

1.6 System (BoP) Components

Description
BOP for H2/O2 Systems

1.7 System Integration

Description
H2/O2 Systems

1.8 On-board Hydrogen Storage

Description

1.9 Demonstration

Description

1.10 Modelling

Description
Mass- and Energy-Transport in GDLs and porous structures

1.11 Characterisation and Testing

Description
On cell-level: specialized on Imaging with neutrons and X-rays; Wide range of materials analysis;

1.12 Materials Synthesis, Design and Manufacturing from Components to Systems

Description

Energy Pillar / Energy to Hydrogen

2.1 Hydrogen Production

Description

2.2 Hydrogen Storage

Description

2.3 Hydrogen Handling and Distribution

Description

2.4 Smart Buildings and Communities

Description

2.5 Smart Cities

Description

2.6 Smart Grids

Description

2.7 Stack Components

Description

2.8 Stack Integration and BOP

Description

2.9 Demonstration

Description

2.10 Modelling

Description

2.11 Characterization and Testing

Description

2.12 Design and Manufacturing

Description

Energy Pillar / Fuel Cells to Energy

3.1 Combined Hit and Power Units (CHP)

Description

3.2 Power Generation

Description

3.3 Back-Up Power Systems

Description

3.4 Residential

Description

3.5 Commercial

Description

3.6 Industrial

Description

3.7 Control, Diagnostics and Prognostics

Description

3.8 Innovation on Fuel Cells and Components

Description

3.9 Manufacturing Technologies

Description

3.10 Modelling

Description

Mass- and Energy-Transport in GDLs and porous structures

3.11 Characterization and Testing

Description

On cell-level: specialized on Imaging with neutrons and X-rays; Wide range of materials analysis;

Cross-Cutting Research Activities

4.1 Education

Description

4.2 Recycling

Description

4.3 Safety

4.4 Communication and Public Awareness

Description

4.5 E-Science and E-Educations

Description

4.6 Market and Technology Monitoring

Description

4.7 Pre-Normative Research

Description

4.8 Regulations, Codes and Standards (RCS)

Description

4.9 Techno-, Socio- and Economic Analysis

Description

4.10 Support (to Public Authorities, Policy Officers and Society)

Description