

N.ERGHY Members' Expertise



The Name of the Organization

IMDEA

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

1.6 System (BoP) Components

Description

1.7 System Integration

Description

1.8 On-board Hydrogen Storage

Description

1.9 Demonstration

Description

1.10 Modelling

Description

1.11 Characterisation and Testing

Description

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 Building energy management system, optimisation of energy supply mix, grid integration

2.5 Smart Cities

Description energy management of local resources

2.6 Smart Grids

Description activepower network management, renewable integration, network state estimation, demand forecasting

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 Management and control strategies

3.8 Innovation on Fuel Cells and Components

Description

3.9 Manufacturing Technologies

Description

3.10 Modelling

Description

3.11 Characterization and Testing

Description

Laboratory for electricity network studies, Smart Energy Integration Lab (SEIL). Electrochemical Devices Testing Lab (EDTL)

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

Pre-Normative Research

4.8 Regulations, Codes and Standards (RCS)

Description

4.9 Techno-, Socio- and Economic Analysis

Description

Management and life cycle analysis: LCA, LCA+DEA, LCC, environmental declarations applied to products, processes and services. Energy integration feasibility studies

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

Description