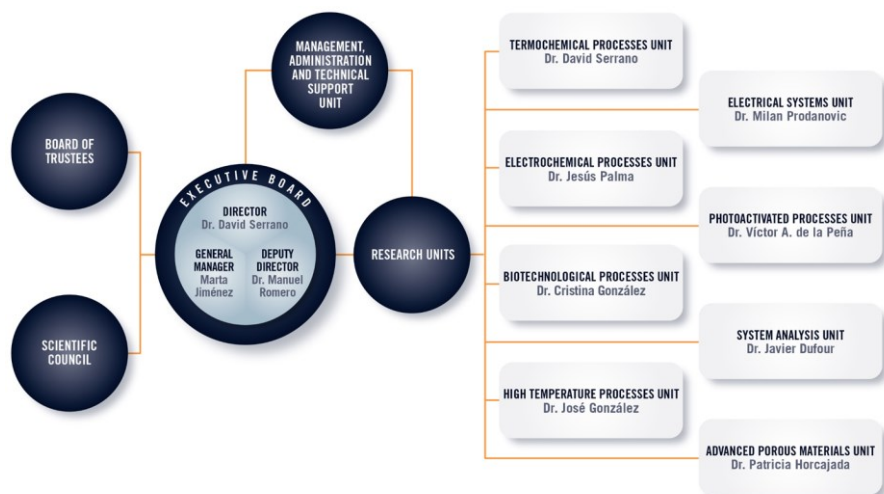


IMDEA Energy Institute

- Not-for-profit R&D Foundation.
- Legally founded in 2006 by Madrid's Government.
- Mission: promote and conduct R&D&i on sustainable energy technologies.
- Organized into eight research units.
- Accreditation of 'María de Maeztu' Unit of Excellence, granted by the Spanish State Research Agency.

Research topics

- **Production of sustainable fuels:** hydrogen, biofuels and advanced fuels from wastes
- **Solar power**
- **Energy storage:** electrochemical, thermal and thermochemical systems
- **Energy systems with enhanced efficiency**
- **Power systems and demand management**
- **Valorization of CO₂ emissions**
- **Analysis and assessment of energy systems**



Hydrogen activities

- Process design, simulation and optimisation
- Techno-economics assessment
- LCA harmonisation protocols
- Prospective life-cycle assessment (SO technologies)
- Eco-efficiency assessment (ISO 14045:2012)
- Social-LCA
- Life cycle sustainability assessment
- Eco-design: PEMFC stack and SOE
- Roadmapping: Spain and Community of Madrid

- New high conductive materials for PEM technologies
- Hydrogen from wastes
- Microbial electrolysis cells
- Biogas dry-reforming
- Biomethane pyrolysis
- Hybridization with CSP

