

Projects of Electrical Research and Technology (TEP-152)

Coordinator: Dr. Francisco Jurado Melguizo (fjurado [arroba] ujaen [punto] es)

Banner with an image of machinery from the Electric Research and Technology group.

The 'Electrical Research and Technology' research group is engaged in researching electrical systems and renewable energies. Specifically, it researches and works on the optimal location of power stations based on harnessing agricultural and forestry residues, analysis of distributed electricity generation, design of power generation systems based on microturbines and fuel cells, as well as studying the stability of electrical systems.

Ongoing projects

Redes MVDC integrando tecnologías de energías renovables, almacenamiento de energía y convertidores de fuente de impedancia (RenZSC), RTI2018-095720-B

- Funding entity: State Plan for Scientific and Technical Research and Innovation
- Participating entities: University of Jaén, University of Cádiz and the Polytechnic University of Catalonia
- Duration, from: 2019 till: 2021
- Researcher in charge: Francisco Jurado Melguizo

Opportunities for olive oil value chain enhancement through the by-products valorization (OLIVEN) PCI2018-093255

- Funding entity: European Commission's Seventh Framework Programme (FP7)
- Participating entities: European research organizations
- Duration, from: 2018 till: 2020
- Researcher in charge: David Vera Candeas

Finished projects

Aplicaciones de la corriente continua de media tensión en sistemas eléctricos, ENE2013-46205

- Funding entity: State Plan for Scientific and Technical Research and Innovation (2013-2016)
- Participating entities: University of Jaen, University of Málaga and the Polytechnic University of Catalonia
- Duration, from: 2014 till: 2016
- Researcher in charge: Francisco Jurado Melguizo

Producción y ensayos de biocombustibles en motores de combustión interna. UNCO15-CE-3741

- Funding entity: Ministry of Economy and Competitiveness (MINECO)
- Participating entities: University of Córdoba, University of Jaén
- Duration, from: 2016 till: 2017
- Researcher in charge: Pilar Dorado

Sistema híbrido de generación eléctrica compuesto por paneles fotovoltaicos, aerogenerador y pila de combustible con electrolizador, ENE2010-19744

- Funding entity: National R&D&I Plan (2008-2011)
- Participating entities: University of Jaén, University of Málaga and University of Cádiz
- Duration, from: 2010 till: 2013
- Researcher in charge: Francisco Jurado Melguizo

Aplicación de la microturbina y el motor de gas en la industria oleícola, AGR-5720

- Funding entity: Andalusian R&D&i Plan (2007-2013)
- Participating entities: Regional Ministry of Innovation, Science and Business (Regional Government of Andalusia)
- Participating entities: University of Jaén
- Duration, from: 2011 till: 2015
- Researcher in charge: Francisco Jurado Melguizo