Renewable and Sustainable Energy Systems Laboratory

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**Research activities**
- Renewable Energy Sources (RES)
- Environmental Impact Assessment from Energy Systems
- Regional / local energy planning and sustainable management of natural resources
- Aesthetic integration of energy technologies
- Liquid Biofuels
- Sustainable Building applications with emphasis on RES and their integration in the built environment

**Lab Infrastructure**
- Tree (3) Portable meteorological stations
- 6,7 kW PV stations (9 different types of PV)
- Autonomous mobile-biodiesel production units of "used" oils
- Chromatographer (GC Link Lab 8610C Biodiesel)
- Autonomous production system, 500 mW with hydrogen cell
- Portable Educational demonstration PV frame (SolarPhotoVoltaic Koffer)
- IR-Thermal camera Irisys IRI 4030
- Lighting System Measurement
- Portable equipments for measuring gaseous emissions
- Portable noise control measuring equipment
- Solar thermal systems
- Automatic system for controlling the performance of PV tracing (IV tracer)
- Sensors for measuring solar radiation (pyrometers)
- Digital precision thermometers
- Digital instruments for measuring electrical parameters

**Research Projects**
- COMPOSE, Rural COMmunities engaged with POSitive Energy
- CIVITAS Destinations, Demonstrate innovative measures for enhancing sustainable mobility in Europe’s touristic destinations, [http://civitas.eu/destinations](http://civitas.eu/destinations)
- REScoop Plus, Harnessing power of European REScoops beyond RES production, Cooperatives mobilising EU Citizens to invest in Sustainable Energy, [https://rescoop.eu/european-project/rescoop-plus](https://rescoop.eu/european-project/rescoop-plus)
• BUILD UP Skills UPSWING, UPgrading the construction Sector Workforce training and qualification in Greece, [http://www.skills-upswing.gr/](http://www.skills-upswing.gr/)
• neZEH, Near Zero Energy Hotels (IEE, Coordinator) [www.nezeh.eu](http://www.nezeh.eu)
• PV PARITY, Definition of grid-parity for photovoltaics and development of measures to accompany PV applications to the grid parity and beyond, [http://www.pvparity.eu/](http://www.pvparity.eu/)
• PVTRIN, Training and Certification of PV installers in Europe, (IEE, Coordinator), [http://www.pvtrin.eu/home/index.html](http://www.pvtrin.eu/home/index.html)
• RERINA, Integration of Renewable Energy Technologies in Rural Insular Areas, (IEE, Coordinator)