

GROUP NAME	PI	CONTACT EMAIL	DEPARTAMENT	WEB	ELECTRIC VEHICLE
Signal Processing and Radiocommunications Group	Angueira Buceta, Pablo	<a href="mailto:pablo.angueira@ehu.eus">pablo.angueira@ehu.eus</a>	Ingeniería de Comunicaciones	<a href="http://www.ehu.eus/tsr_radio/">http://www.ehu.eus/tsr_radio/</a>	<ol style="list-style-type: none"> <li>1. Conducted emissions generated by the charging process of the Electric Vehicle (up to 500 kHz).</li> <li>2. Changes in the grid impedance caused by the EV charging process.</li> <li>3. Measurement methods for impedance and conducted emissions.</li> <li>4. Impact of conducted emissions up to 500kHz and changes in the grid impedance on the performance of Power Line Communications.</li> </ol>
Advanced Control Group	Barambones, Oscar	<a href="mailto:oscar.barambones@ehu.eus">oscar.barambones@ehu.eus</a>	Ingeniería de Sistemas y Automática	-----	<ol style="list-style-type: none"> <li>1. Design and implementation of advanced control schemes for electrical machines.</li> <li>2. Real time validation of the new control schemes.</li> <li>3. Teal time control test bench design and implementation.</li> </ol> <p>More than 45 papers published in this topic.</p>
EKOPOL	Barcena Hinojal, Iñaki	<a href="mailto:inaki.barcena@ehu.eus">inaki.barcena@ehu.eus</a>	Ciencia Política y de la Administración	<a href="https://www.ehu.eus/es/web/ekopolhttps://ekopol.eus/es/">https://www.ehu.eus/es/web/ekopolhttps://ekopol.eus/es/</a>	<ol style="list-style-type: none"> <li>1. Reference project: EKOPOL. Sustainability and environmental management in urban environments (landscape and transport). The central axis of the research is developed in the field of the territory/landscape binomial, urban development and sustainability.</li> </ol>
Materials + Technologies (GMT)	Eceiza, M <sup>a</sup> Aranzazu	<a href="mailto:arantxa.eceiza@ehu.eus">arantxa.eceiza@ehu.eus</a>	Ingeniería Química y del Medio Ambiente	<a href="https://www.ehu.eus/es/web/gmt/home">https://www.ehu.eus/es/web/gmt/home</a>	<ol style="list-style-type: none"> <li>1. New Sustainable Materials for application in electric vehicle components.</li> <li>2. Development of sustainable materials of biological origin and/or higher recyclability suitable to replace some of the large amount of materials of petrochemical origin that currently make up in electric vehicle.</li> <li>3. Development of new polymeric formulations, such as biobased epoxy and polyurethane resins, biobased thermoplastic polyurethanes and biobased epoxy and polyurethane vitrimers, to apply in composite matrices used as main components in electric vehicles.</li> </ol>
GISEL	Eguia, PabloZamora, Inmacula	<a href="mailto:inmaculada.zamora@ehu.eus">inmaculada.zamora@ehu.eus</a>	Ingeniería Eléctrica	<a href="https://www.ehu.eus/en/web/gisel">https://www.ehu.eus/en/web/gisel</a>	<ol style="list-style-type: none"> <li>1. Integration of EV in electricity systems.</li> <li>2. EV battery management.</li> <li>3. DC circuit breakers for battery systems</li> </ol>
ELEKTRIKER	Fernández Herrero, Elvira	<a href="mailto:elvira.fernandezh@ehu.eus">elvira.fernandezh@ehu.eus</a>	Ingeniería Eléctrica	-----	<ol style="list-style-type: none"> <li>1. Energy community and storage capacity</li> <li>2. Collective self-consumption</li> <li>3. Energy community as the community's flexibility responses</li> <li>4. Application of the dynamic line rating to the power system congestion management.</li> <li>5. Dynamic line rating monitoring systems.</li> <li>6. Dynamic line rating forecasting.</li> <li>7. Simulation of the power system operation using DigSILENT PowerFactory</li> </ol>
Applied Electronic Research Team (APERT)	Martín González, José Luis	<a href="mailto:joseluis.martin@ehu.eus">joseluis.martin@ehu.eus</a>	Tecnología Electrónica	<a href="https://www.ehu.eus/en/web/apert/start">https://www.ehu.eus/en/web/apert/start</a>	<ol style="list-style-type: none"> <li>1. Power and control circuits for Energy Converters. This research line is oriented to the design and study of power converters for electric power generation, conversion, storage and transmission. In this line, we work on electronics for the traction and charging infrastructure of the Electric Vehicle. This research line studies and develops improvements on the efficiency, control and cooling systems of power inverters and converters used in both, the traction system and the charging infrastructures of the electric vehicle.</li> </ol>