

WIND ENERGY

GROUP NAME	PI	CONTACT EMAIL	DEPARTMENT	RESEARCH LINES	GROUP WEBSITE
ELEKTRIKER	Albizu Florez, Igor Fernandez Herrero, Elvira	igor.albizu@ehu.eus elvira.fernandezh@ehu.eus	Electric engineering	1. Application of the dynamic line rating to the wind power curtailment. 2. Application of the dynamic line rating to the power system congestion management. 3. Dynamic line rating monitoring systems. 4. Dynamic line rating forecasting. 5. Simulation of the power system operation using DlgSILENT PowerFactory	-----
ADVANCED CONTROL GROUP	Barambones Caramazana, Oscar	oscar.barambones@ehu.eus	Systems Engineering and Automation	1. Design and implementation of advanced control schemes. 2. Real time validation of the new control schemes. 3. Teal time control test bench design and implementation.	https://www.ehu.es/es/web/gca/aurkezpena
EKOPOL	Barcena Hinojal, Iñaki Bizente	inaki.barcena@ehu.eus	Political Science and Administration	1. Ecological-energy transition and circular economy	https://ekopol.eus/
E-CLEDER	Blanco Ilzarbe, Jesus Maria	jesusmaria.blanco@ehu.eus	Energy Engineering	1. Integración de las energías renovables en el entorno urbano (solar térmica y offshore, marina y edíca).	https://www.ehu.eus/en/web/e-cleder/hasiera
MATERIALS + TECHNOLOGIES (GMT)	Eceiza Mendiguren, Maria Aranzazu	arantxa.eceiza@ehu.eus	Chemical and Environmental Engineering	1. New Sustainable Materials for application in wind energy components.	https://www.ehu.eus/en/web/gmt/
AUTOMATIC CONTROL GROUP	Garrido Hernandez, Aitor Josu	aitor.garrido@ehu.es	Systems Engineering and Automation	1. Floating wind energy control 2. Hybrid wind-wave energy control	https://www.ehu.eus/web/acg
GROUP OF SIGNAL AND COMMUNICATIONS	Gutierrez Ruiz, Jose Julio	josejulio.gutierrez@ehu.eus	Communications Engineering	1. Measurement and assessment of the quality of the electric power supply of wind turbines.	https://www.ehu.eus/en/web/gsc/home
APPLIED ELECTRONIC RESEARCH TEAM (APERT)	Martín González, Jose Luis	joseluis.martin@ehu.eus	Electronic Technology	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 power electronics and control of the power converters for different applications. We have worked on matrix converters and various aspects of power converters for renewable energy generation such as microwind generators.	https://www.ehu.eus/en/web/apert/start
MATHMODE	Pardo Zubiatur, David	david.pardo@ehu.eus	Maths	1. Design and implementation of Deep Neural Networks DNNs for Structural Health Monitoring of Floating Offshore Wind Turbines (FOWTs) and Components (projects VIVIR; MATHEO; DEEPINVERSE): the optimal selection of the loss function to train a DNN when dealing with simulation and inversion problems like those appearing in structural health monitoring of offshore wind energy platforms; Designing a real-time conceptual alert system based on a DNN architecture when the anchors of a FOWT (project MATHEO); solving the classification problem for the identification of several failure modes in the mooring systems of a FOWT (project VIVIR) 2. Physics-informed machine learning techniques for accelerating Computational Fluid Dynamics, for the design of components of FOWT and harnessing of wind energy (project ExpertIA).	https://sites.google.com/view/mathmode/members
APPLIED PHOTONICS GROUP	Zubia Zaballa, Joseba Andoni	joseba.zubia@ehu.es	Communications Engineering	1. Structural health monitoring (SHM) of wind turbines, wind blades, etc. For this purpose, we have used optical means, primarily fiber optic sensors and other equipment based on Raman and Brillouin light scattering.	https://www.ehu.eus/en/web/appliedphotonicsbilbao/home