Expertise areas:

- Generators and Drive-trains of wind turbines
- Power Electronics
- Energy Storage Applications

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Recent Projects:

METU Smart Campus Feasibility Project:. Funding Agency: USA Trade and Development Agency,

Development of a 7,5 kW Permanent Magnet Integrated Modular Motor Drive System:, Funding Agency: TUBİTAK

Electromagnetic Design and Optimization of a 10 MJ Electromagnetic Launcher, *Funding Agency:* ASELSAN

Synthetic Inertial Support in Power Systems, Funding Agency: EnerjiSA, EU H2020 ERA-Net

Feasibility analysis and design of a 2.5MW direct-drive wind turbine generator, Funding Agency: ASELSAN

Detailed Project List: http://keysan.me/projects

Recent Publications:

Zeinali, R., & Keysan, O. (2019). A Rare-Earth Free Magnetically Geared Generator for Direct-Drive Wind Turbines. Energies, 12(3), 447.

Mueller, M. A., Burchel, J., Chong, Y. C., Keysan, O., McDonald, A., Galbraith, M., & Subiabre, E. J. P. E. (2018). Improving the Thermal Performance of Rotary and Linear Air-Cored Permanent Magnet Machines for Direct Drive Wind and Wave Energy Applications. IEEE Transactions on Energy Conversion.

A. Akgemci, R. Zeinali and O. Keysan, "Minimization of EMF Harmonics and Cogging Torque for a Medium Speed RFPM Wind Turbine Generator," 2018 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, 2018, pp. 342-347.

Keysan, O., & Mueller, M. (2015). A modular and cost-effective superconducting generator design for offshore wind turbines. Superconductor Science and Technology, 28(3), 034004.