

EFFICIENT POWER ELECTRONICS, POWERTRAIN & ENERGY SOLUTIONS RESEARCH GROUP



EPOWERS is part of MOBI Core Lab @ Flanders Make

Your go to research group for cutting edge technologies in Power Electronics, Powertrains and Smart Energy Solutions

We provide reliable, green, smart, efficient and high-tech solutions by designing and prototyping new and advanced power electronics topologies, modular powertrains and flexible energy assets that can be used for tomorrow's automotive and stationary applications, with an ever-growing team of talented researchers and experts.

We apply various highly advanced and innovative control algorithms, testing protocols and dynamic models for improving control and energy strategies, and for boosting the efficiency of your design under a wide variety of loads conditions.

We offer

- Design and prototyping of emerging power electronics systems
- · Modular powertrain concepts
- Codesign optimisation
- Cloud-connected EV modeling & testing
- ECO algorithms implementation

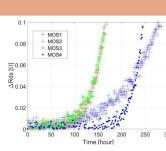
- Smart Green Grid Solutions
- Optimization and management of V2X smart charging concepts
- HiL system testing and validation
- Digital Twin and virtual validation
- Reliability and conformance testing



















Contact

Prof. Dr. Ir. OMAR HEGAZY +32 (0) 2 629 29 92 Omar Hegazy@yub be

Omar.Hegazy@vub.be mobi.research.vub.be

Pleinlaan 2 - 1050 Brussels - BE



