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Doctoral scholarship
Electrical Engineering and Power Electronics
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Employment

Doctoral scholarship
Electrical Engineering and Power Electronics
Vrije Universiteit Brussel
Brussels, Belgium
1 Sep 2020 → 31 Aug 2024

MOBI - Electromobility research centre
Vrije Universiteit Brussel
Brussels, Belgium
1 Sep 2020 → present

PhD, Faculty of Engineering
Vrije Universiteit Brussel
Brussels, Belgium
30 Jun 2020 → present

Research outputs

Multi-state optimal power dispatch model for power-to-power systems in off-grid hybrid energy systems: A case study in Spain
Alonso, A. M., Matute, G., Yusta, J. M. & Coosemans, T., 2 Jan 2024, In: International Journal of Hydrogen Energy. 52, p. 1045-1061 17 p.

Phasing out steam methane reformers with water electrolysis in producing renewable hydrogen and ammonia: A case study based on the Spanish energy markets
Alonso, A. M., Naval, N., Matute, G., Coosemans, T. & Yusta, J. M., 2 Jan 2024, In: International Journal of Hydrogen Energy. 52, Part A, p. 1472-1487 16 p., 52.

Techno-economic assessment on hybrid energy storage systems comprising hydrogen and batteries: A case study in Belgium
Alonso, A. M., Costa, D., Messagie, M., Coosemans, T. & Alonso, A. M., 2 Jan 2024, In: International Journal of Hydrogen Energy. 52, p. 1124-1135 12 p.

Energy communities in rural areas: The participatory case study of Vega de Valcarce, Spain
Lode, M. L., Felice, A., Alonso, A. M., Silva, J. D., Lopez, M. E. A., Lowitzsch, J., Coosemans, T. & Camargo, L. R., Nov 2023, In: Renewable Energy. 216, 10 p., 119030.

Eco-Efficiency as a Decision Support Tool to Compare Renewable Energy Systems

Huber, D., Martinez Alonso, A., Lavigne Philippot, M. & Messagie, M., 1 Jun 2023, In: Energies. 16, 11, p. 1-25 25 p., 4478.

Challenges of Phasing out Emergency Diesel Generators: The Case Study of Lacor Hospital's Energy Community

Felice, A., Martinez Alonso, A., Messagie, M., Coosemans, T. & Barbieri, J., Feb 2023, In: Energies. 16, 3, 1369.

Coupling Rural Development with the Development of Energy Communities: A Participatory Study in Vega De Valcarce, Spain

Lode, M. L. & Martinez Alonso, A., 15 Apr 2022, 26 p.

Projects

OZR4112: Bilateral cooperation within the framework of a joint doctoral project: benchfee for joint PhD VUB - KU (Japan), MARTINEZ ALONSO Ander

Coosemans, T., Martinez Alonso, A. & Vranckx, A.
20/02/23 → 19/02/27

Datasets

Eco-efficiency as a decision support tool to compare renewable energy systems - supporting material

Huber, D. (Creator), Martinez Alonso, A. (Creator), Lavigne Philippot, M. (Creator) & Messagie, M. (Creator), Zenodo, 18 May 2023

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