

**Assessment of power system asset dispatch under different local energy community business models**

**Korótko, Tarmo; Plaum, Freddy; Häring, Tobias;** Mutule, Anna; Lazdins, Roberts; Boršcevs, Olegs; **Rosin, Argo;** Carroll, Paula Energies 2023 / art. 3476 <https://doi.org/10.3390/en16083476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications**

**Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 | <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862>

**Feasibility study of universal power electronics interface operation in 350 V and 700 V residential DC microgrids**

**Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227441>

**Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries**

Meneghetti, Luiz Henrique; **Carvalho da Silva, Edivan Laercio;** Carati, Emerson Giovanni; Denardin, Gustavo Weber; da Costa, Jean Patric; de Oliveira Stein, Carlos Marcelo; Cardoso, Rafael Energies 2022 / art. 7539 <https://doi.org/10.3390/en15207539> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Mathematical modeling of a battery energy storage system in grid forming mode**

Rahmoun, Ahmad; Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill <http://dx.doi.org/10.1109/RTUCON.2017.8125625>

**Operation of the step-up/down bidirectional partial power converter near zero series voltage**

**Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227425>

**Optimizing size and economic feasibility assessment of photovoltaic and energy storage setup in residential applications**

**Nourollahi Hokmabad, Hossein; Husev, Oleksandr; Kurnitski, Jarek; Belikov, Juri** Sustainable energy, grids and networks 2024 / art. 101385, 15 p. : ill <https://doi.org/10.1016/j.segan.2024.101385> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)