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A multi-scale framework for simultaneous optimization of the design and operating strategy of residential CHP systems

DOI: 10.1016/j.apenergy.2017.08.082
Applied Energy, 2017, 205, 1495-1511.

Source: <https://exaly.com/paper-pdf/66986018/citation-report.pdf>

Version: 2024-04-23

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#	Paper	IF	Citations
28	Impact of rooftop photovoltaics and centralized energy storage on the design and operation of a residential CHP system. <i>Applied Energy</i> , 2018 , 222, 280-299	10.7	14
27	Energy management and load shaping for commercial microgrids coupled with flexible building environment control. <i>Journal of Energy Storage</i> , 2018 , 16, 61-75	7.8	24
26	Low pressure direct injection strategies effect on a small SI natural gas two-stroke engine energy distribution and emissions. <i>Applied Energy</i> , 2018 , 230, 1585-1602	10.7	18
25	Intertemporal optimization of synthesis, design and operation of integrated energy systems of ships: General method and application on a system with Diesel main engines. <i>Applied Energy</i> , 2018 , 226, 991-1008	10.7	25
24	Optimal design and cost allocation of a distributed energy resource (DER) system with district energy networks: A case study of an isolated island in the South China Sea. <i>Sustainable Cities and Society</i> , 2019 , 51, 101726	10.1	31
23	Optimization of combined heat and power plant operating mode by means of underutilized equipment mothball. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 288, 012122	0.3	8
22	Bi-level optimization of design, operation, and subsidies for standalone solar/diesel multi-generation energy systems. <i>Sustainable Cities and Society</i> , 2019 , 48, 101592	10.1	21
21	A review of performance of zero energy buildings and energy efficiency solutions. <i>Journal of Building Engineering</i> , 2019 , 25, 100772	5.2	116
20	Experimental evaluation of a semi-open membrane-based absorption heat pump system utilizing ionic liquids. <i>Applied Energy</i> , 2019 , 239, 919-927	10.7	13
19	Are open source energy system optimization tools mature enough for serious use?. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 102, 234-248	16.2	43
18	Two-stage design optimization based on artificial immune system and mixed-integer linear programming for energy supply networks. <i>Energy</i> , 2019 , 170, 1228-1248	7.9	18
17	A multiperiod multiobjective framework for the synthesis of trigeneration systems in tertiary sector buildings. <i>International Journal of Energy Research</i> , 2020 , 44, 1140-1166	4.5	7
16	Tackling thermal integration in the synthesis of polygeneration systems for buildings. <i>Applied Energy</i> , 2020 , 269, 115115	10.7	11
15	Optimal household energy management based on smart residential energy hub considering uncertain behaviors. <i>Energy</i> , 2020 , 195, 117052	7.9	36
14	Weighted directed graph based matrix modeling of integrated energy systems. <i>Energy</i> , 2021 , 214, 118886	9.9	4
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12	Robust Energy Management of Residential Energy Hubs Integrated with Power-to-X Technology. 2021 ,		4

11	Energy optimization of a micro-CHP engine using 1-D and 3-D modeling. <i>Applied Thermal Engineering</i> , 2021 , 191, 116904	5.8	1
10	Optimal Stochastic Operation of Residential Energy Hubs Based on Plug-in Hybrid Electric Vehicle Uncertainties Using Two-point Estimation Method. <i>Sustainable Cities and Society</i> , 2021 , 103059	10.1	7
9	Techno-economic evaluation and optimization of CCGT power Plant: A multi-criteria decision support system. <i>Energy Conversion and Management</i> , 2021 , 237, 114107	10.6	3
8	A review on zero energy buildings [Pros and cons. <i>Energy and Built Environment</i> , 2021 ,	6.3	12
7	Techno-Economic Performance Assessment of a Trigeneration System Operating in a Hospital. <i>Energies</i> , 2021 , 14, 5105	3.1	0
6	Optimal bidding and scheduling of AA-CAES based energy hub considering cascaded consumption of heat. <i>Energy</i> , 2021 , 233, 121133	7.9	7
5	Technical, economic and environmental analyses of combined heat and power (CHP) system with hybrid prime mover and optimization using genetic algorithm. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101697	4.7	1
4	Optimization and trading of district multi-energy system in university community considering carbon emission. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 137, 107450	5.1	1
3	Semi-empirical development of a novel and versatile multiobjective optimization tool for co/trigeneration energy system design. <i>International Journal of Energy Research</i> ,	4.5	1
2	Thermal design and dynamic performance assessment of a hybrid energy system for an educational building. 2022 , 112513		0
1	A multi-objective planning method for multi-energy complementary distributed energy system: Tackling thermal integration and process synergy. 2023 , 135905		1