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The value of bulk energy storage for reducing CO₂ emissions and water requirements from regional electricity systems

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Energy Conversion and Management, 2019, 181, 674-685.

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#	Paper	IF	Citations
23	Impact analysis of carbon prices on metal mining projects by block-based estimation model: Implications for cleaner production. <i>Journal of Cleaner Production</i> , 2019 , 229, 695-705	10.3	7
22	The potential for battery energy storage to provide peaking capacity in the United States. <i>Renewable Energy</i> , 2020 , 151, 1269-1277	8.1	34
21	Potential of (hbox {CO}_{2}) based geothermal energy extraction from hot sedimentary and dry rock reservoirs, and enabling carbon geo-sequestration. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020 , 6, 1	3.8	11
20	Research on Comprehensive Value of Electrical Energy Storage in CCHP Microgrid with Renewable Energy Based on Robust Optimization. <i>Energies</i> , 2020 , 13, 6526	3.1	2
19	Power system decarbonization: Impacts of energy storage duration and interannual renewables variability. <i>Renewable Energy</i> , 2020 , 156, 1171-1185	8.1	23
18	Review of optimal methods and algorithms for sizing energy storage systems to achieve decarbonization in microgrid applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 131, 110022	16.2	52
17	Analysis and assessment of the integrated generation IV gas-cooled fast nuclear reactor and copper-chlorine cycle for hydrogen and electricity production. <i>Energy Conversion and Management</i> , 2020 , 205, 112387	10.6	15
16	Material-Energy-Emission nexus in the integrated iron and steel industry. <i>Energy Conversion and Management</i> , 2020 , 213, 112828	10.6	20
15	The value of CO ₂ -Bulk energy storage with wind in transmission-constrained electric power systems. <i>Energy Conversion and Management</i> , 2021 , 228, 113548	10.6	4
14	Nuclear Power Plant or Solar Power Plant.		2
13	How does new energy storage affect the operation and revenue of existing generation?. <i>Applied Energy</i> , 2021 , 285, 116383	10.7	3
12	Eco-Emission Analysis of Multi-Carrier Microgrid Integrated with Compressed Air and Power-to-Gas Energy Storage Technologies. <i>Sustainability</i> , 2021 , 13, 4681	3.6	6
11	Heat depletion in sedimentary basins and its effect on the design and electric power output of CO ₂ Plume Geothermal (CPG) systems. <i>Renewable Energy</i> , 2021 , 172, 1393-1403	8.1	10
10	Hybrid-energy approach enabled by heat storage and oxy-combustion to generate electricity with near-zero or negative CO ₂ emissions. <i>Energy Conversion and Management</i> , 2021 , 244, 114496	10.6	2
9	Flexible CO ₂ -plume geothermal (CPG-F): Using geologically stored CO ₂ to provide dispatchable power and energy storage. <i>Energy Conversion and Management</i> , 2022 , 253, 115082	10.6	1
8	Decarbonizing power systems: A critical review of the role of energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 158, 112077	16.2	7
7	Management of energy and water resources by minimizing the rejected renewable energy. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102002	4.7	1

6	The Importance of Modeling Carbon Dioxide Transportation and Geologic Storage in Energy System Planning Tools. <i>Frontiers in Energy Research</i> , 2022 , 10,	3.8	1
5	Using CO ₂ -Plume Geothermal (CPG) Energy Technologies to Support Wind and Solar Power in Renewable-Heavy Electricity Systems. <i>Renewable and Sustainable Energy Transition</i> , 2022 , 100026		0
4	A review of polygeneration systems with CO ₂ working fluid. <i>Thermal Science and Engineering Progress</i> , 2022 , 101435	3.6	
3	The promise of coupling geologic CO ₂ storage with sedimentary basin geothermal power generation. 2022 , 105618		0
2	Simulation Results for Finding Optimal Battery Energy Storage Capacity in Decarbonizing the Power Sector of South Korea. 2022 ,		0
1	Water Energy Nexus and Energy Transition Review. 2023 , 16, 1879		0