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An autopilot for energy models Automatic generation of renewable supply curves, hourly capacity factors and hourly synthetic electricity demand for arbitrary world regions

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19	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 1, 29		1
18	The strong effect of network resolution on electricity system models with high shares of wind and solar. <i>Applied Energy</i> , 2021 , 291, 116726	10.7	16
17	The impacts of the electricity demand pattern on electricity system cost and the electricity supply mix: A comprehensive modeling analysis for Europe. <i>Energy</i> , 2021 , 235, 121329	7.9	8
16	Exploring the competitiveness of hydrogen-fueled gas turbines in future energy systems. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 624-624	6.7	7
15	A data processing approach with built-in spatial resolution reduction methods to construct energy system models. <i>Open Research Europe</i> , 1, 36		
14	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 1, 29		
13	Into a cooler future with electricity generated from solar photovoltaic.. <i>IScience</i> , 2022 , 25, 104208	6.1	
12	A spatiotemporal atlas of hydropower in Africa for energy modelling purposes. <i>Open Research Europe</i> , 1, 29		1
11	Aggregate load profile and decarbonization: Impacts of actionable demand drivers in New York. <i>Energy Strategy Reviews</i> , 2022 , 42, 100868	9.8	0
10	The value of flexible fuel mixing in hydrogen-fueled gas turbines [A techno-economic study. 2022 ,		1
9	Historical wind deployment and implications for energy system models. 2022 , 168, 112813		0
8	The error induced by using representative periods in capacity expansion models: system cost, total capacity mix and regional capacity mix.		0
7	Investigating the Effect of Shading on the Capacity Factor of Floating Photovoltaic Systems.		0
6	OSeMOSYS Global, an open-source, open data global electricity system model generator. 2022 , 9,		0
5	Low-cost hydrogen in the future European electricity system [Enabled by flexibility in time and space. 2023 , 330, 120315		2
4	Centralized and decentralized electrolysis-based hydrogen supply systems for road transportation [A modeling study of current and future costs. 2022 ,		1
3	Import options for chemical energy carriers from renewable sources to Germany. 2023 , 18, e0262340		1

- 2 PyPSA-Earth. A new global open energy system optimization model demonstrated in Africa. **2023**, 341, 121096 ○
- 1 Balancing Electricity Supply and Demand in a Carbon-Neutral Northern Europe. **2023**, 16, 3548 ○