Building Sector Decarb in Energy Systems Modeling

ESIG Fall Technical Conference | October 24, 2023



Sean Morash

Is this really our best grid interactive building?

"Turn off or reduce nonessential power if health allows, now until 9pm."



E

Increasing electric load sensitivity to weather



TELOS ENERG

Source: Shaffer, Quintero, Rhodes. Changing sensitivity to cold weather in Texas power demand. iScience 25. 2022.

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Winter Events Look Different



Hours of Safety – Thermal Resilience



Source Left: EPRI, U.S. National Electrification Assessment (2018) Right: RMI. Hours of Safety in Cold Weather (2020)

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10/25/2023

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