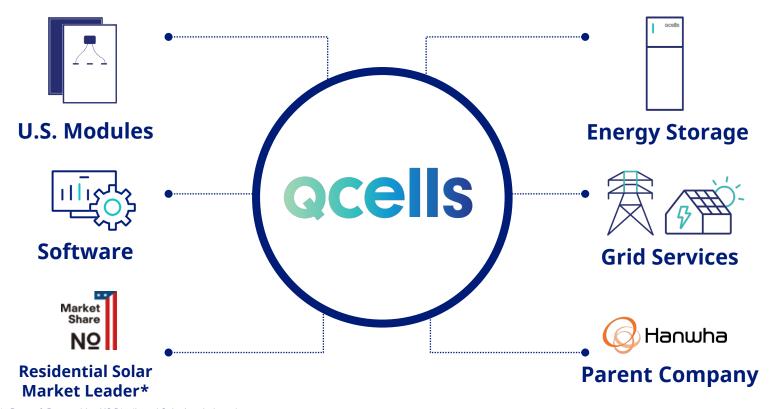
Distributed Energy Facing today's challenges while building for the future

Danielle Merfeld, Global Chief Technology Officer, Qcells pv magazine USA Week 2025 | October 30, 2025



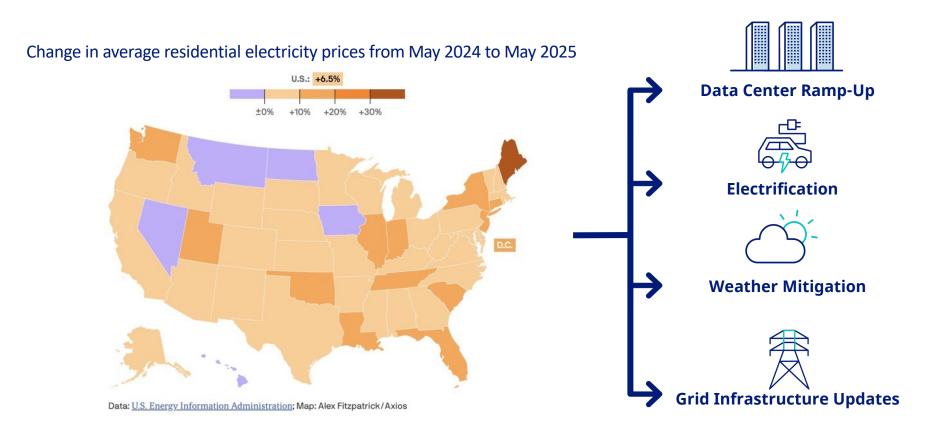
From Solar Manufacturer to Clean Energy Technology Leader



*Wood Mackenzie Power & Renewables US Distributed Solar Leaderboard



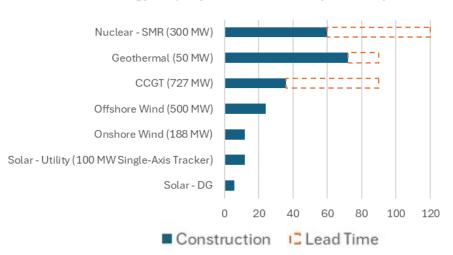
Energy Costs are Skyrocketing



Distributed Energy Saves Time and Money

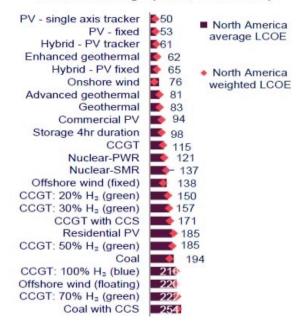
Fastest Time to Power

Energy Deployment Timeline (Months)



Affordability & Cost Stability

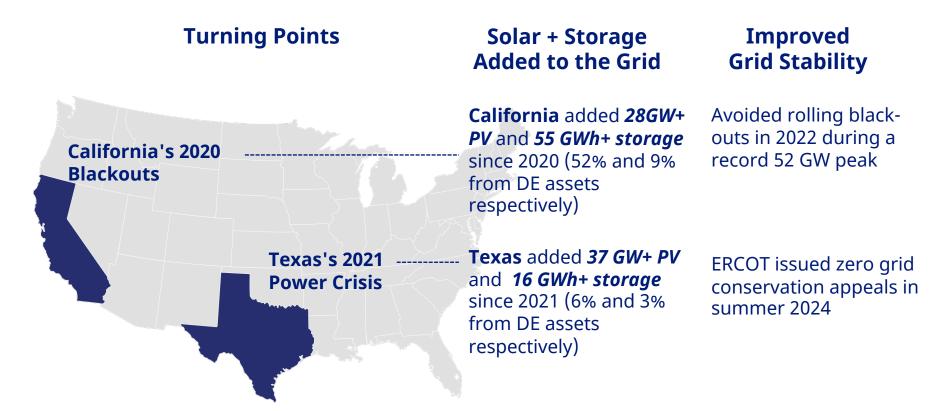
LCOE rankings (2025, US\$/MWh)



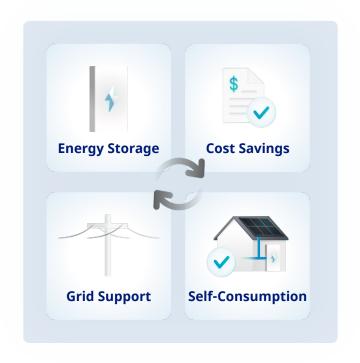
Sources: Lead time estimates are midpoints for geothermal, CCGT, and SMR. DG timeline provided by South Face Solar

Source: Wood Mackenzie North America levelised cost of electricity (LCOE) 2025 report

Distributed Solar & Storage Have Become Core Stability Assets



Energy Storage Compounds the Value of Solar





- Grid stabilization
- Peak shaving
- Solar time-shifting
- Reduced grid reliance on peaking power plants during high demand



Barriers to Adoption- Cost



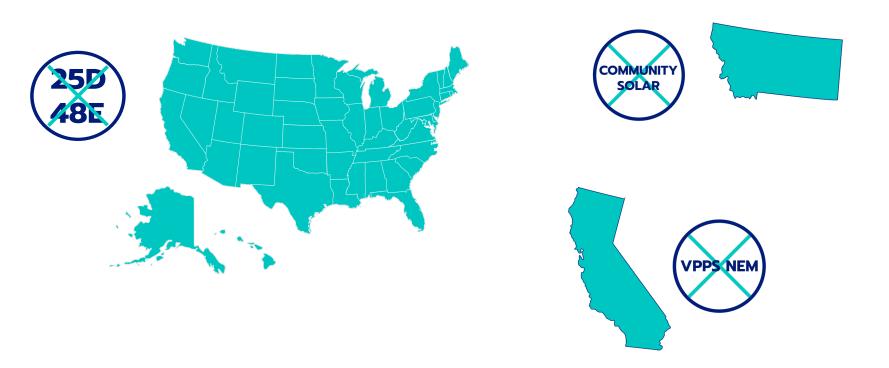
Australia \$4,000 (\$0.57/w)





Germany \$10,000 (\$1.42/w)

Barriers to Adoption – Policy Rollbacks/Gridlock





Cut Red Tape and Drive Down 'Soft Costs'

Permitting

Interconnection

Inspection



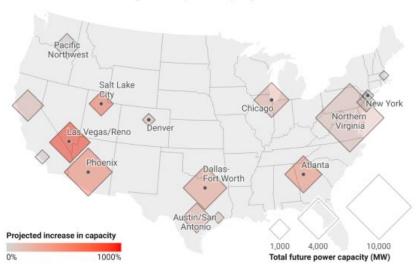




Use Distributed Energy to Support Hyperscalers

Data Center Hot Spots in the U.S.

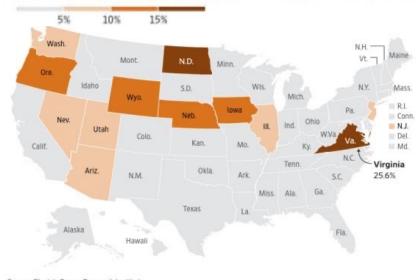
Areas with fastest data-center growth and planned capacity



Map: & the West · Source: Upwind, JLL 2024 Data Center Report · Created with Datawrapper

Source: & the West, Upwind, JLL 2024 Data Center Report

Share of electricity consumed by data centers in 2023, for each state



Source: Electric Power Research Institute
Danny Dougherty/THE WALL STREET JOURNAL

Source: The Wall Street Journal, Electric Power Research Institute

Get Bipartisan Distributed Energy Bills over the Finish Line



SOLAR POWER

Support the Georgia Homegrown Solar Act

Source: Environment America.org

Republican-led community solar legislation moves forward in Missouri and Iowa

Legislation in Missouri aims to launch a three-year pilot program, whereas a new comprehensive community solar policy goes before the House in Iowa.

FEBRUARY 19, 2025 ANNE FISCHER

HARRETS & POLICY POLICY TOWN MISSOURI



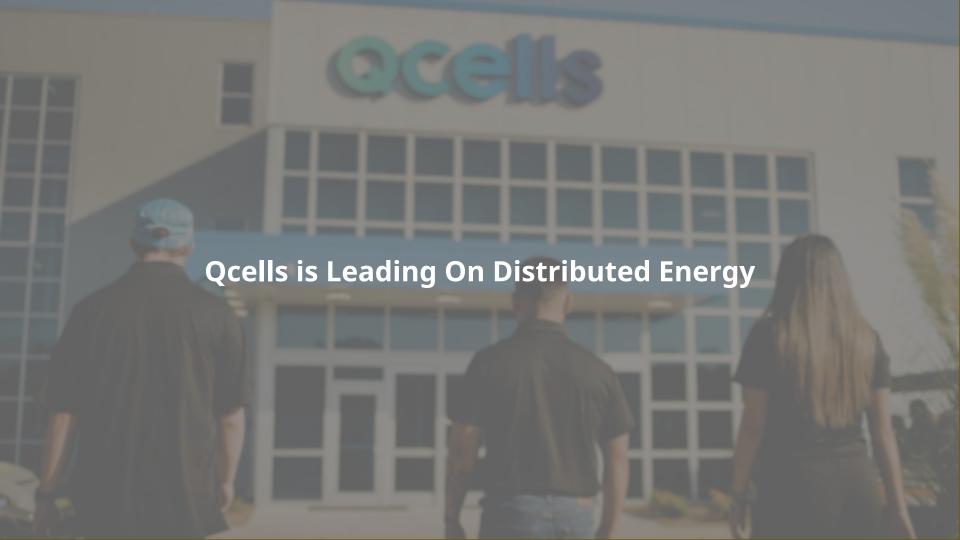


A new 1.75-megawatt agrivoltaic solar array at Iowa State University will study how best to optimize land use while providing local community benefits. Image: Iowa State University

Source: PV magazine



Republican Reps. Ray (left) and Hoops (right) listen to members ask questions about their legislation. **Image:** The Ohio House of Representatives



U.S. Manufacturing Leadership

- Qcells has invested \$2.8 billion to build an integrated solar supply chain in the U.S.
- Job creation and local economic development (4,000+ total new jobs in Georgia)
- One in three residential rooftop PV modules in the U.S. is a Qcells module





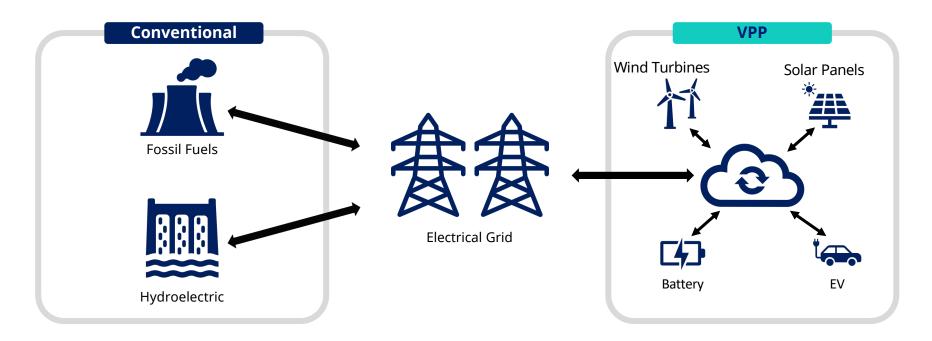
Innovations in U.S. Originated Software



- At the forefront of developing commercial, community & industrial (CCI) software solutions
- Software solutions leverage real-time analytics, AI and machine learning algorithms
- All engineered to meet utility, customer, and regulatory needs in a dynamic energy market



Expanding Grid Services / Virtual Power Plant (VPP) Footprint



Qcells systems participating in grid services provide resilience, economic sufficiency and sustainability

