

Assembly Utilities & Energy Hearing on Affordability March 6, 2024

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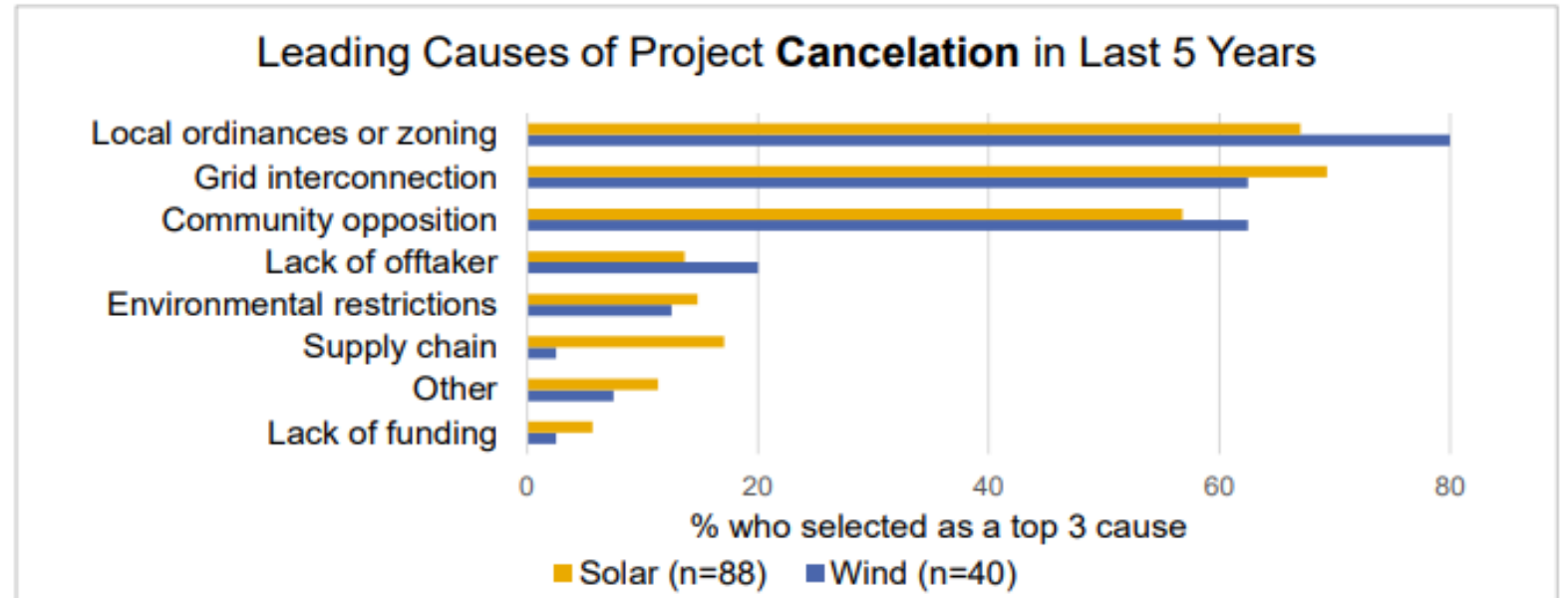


Powering the Solar+ Decade



Long timelines
for projects to
be completed
create risk and
high costs

Figure 1. Developer reported leading causes of project cancelation in last five years.



Survey of Utility-Scale Wind and Solar Developer Report, Energy Markets & Policy Berkeley Lab
<https://emp.lbl.gov/publications/survey-utility-scale-wind-and-solar>

Broadening the market has and will continue to reduce costs

Benefits

\$5.05 billion in gross benefits since Nov 2014 (as of 1/31/2024)

(millions \$)

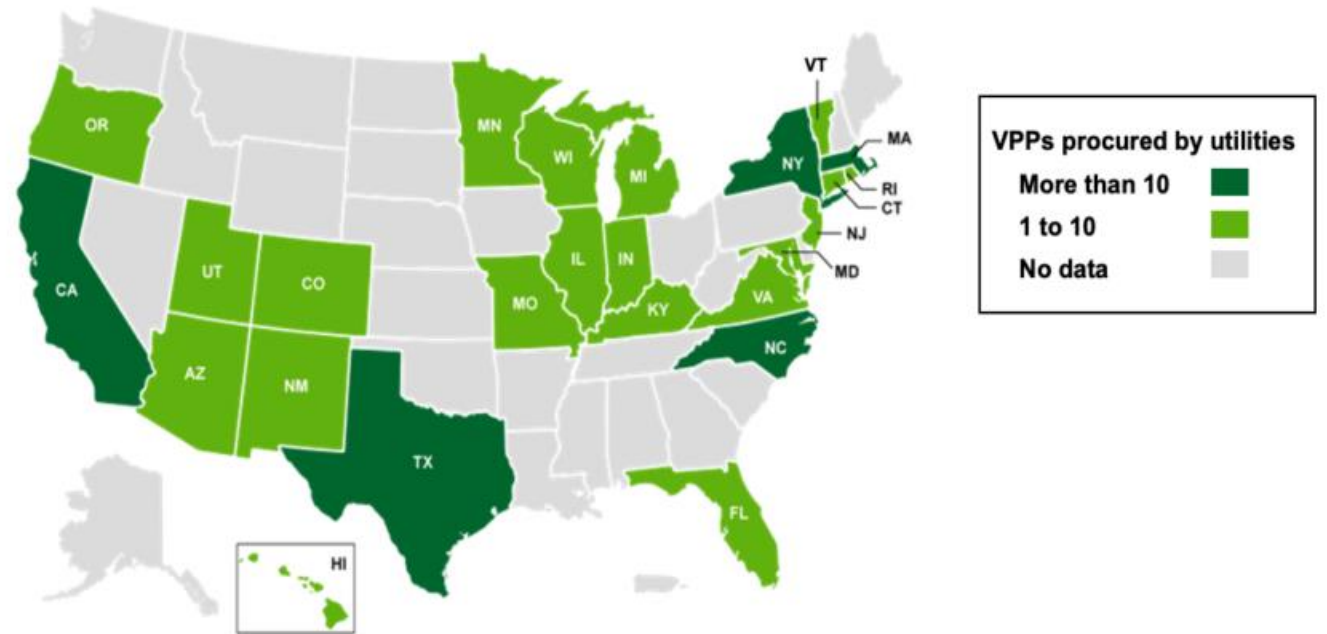
WEIM PARTICIPANTS	2014-2019	2020	2021	2022	2023				TOTAL
					Q1	Q2	Q3	Q4	
Arizona Public Service Entered 10/2016	\$140.32	\$48.96	\$58.79	\$88.84	\$26.43	\$11.95	\$19.90	\$11.13	\$406.32
Avangrid Entered 04/2023						\$8.78	\$4.80	\$6.64	\$20.22
Avista Utilities Entered 04/2022				\$24.08	\$6.38	\$4.98	\$5.19	\$4.30	\$44.93
BANC Entered 04/2019	\$15.86	\$30.36	\$129.61	\$281.65	\$44.63	\$17.72	\$22.17	\$73.12	\$615.12
BPA Entered 05/2022				\$26.39	\$11.83	\$7.49	\$6.38	\$9.68	\$61.77
California ISO Entered 11/2014	\$191.88	\$62.04	\$146.00	\$289.83	\$67.86	\$70.47	\$34.88	\$25.40	\$888.36

- WEIM has shown to reduce costs (\$5.05 billion in gross benefits since 2014)
- \$888 million in savings for CA since 2014

(<https://www.westerneim.com/pages/default.aspx>)

Growth of VPPs and Demand Response Programs can reduce costs for ratepayers

Number of 3rd party VPPs procured by utilities in each state (2022)



Pathways to Commercial Liftoff: Virtual Power Plants, DOE Sept 2023

- VPPs are just beginning to grow, but if scaled up can enable tapping into existing and new distributed resources on the grid to reduce costs