



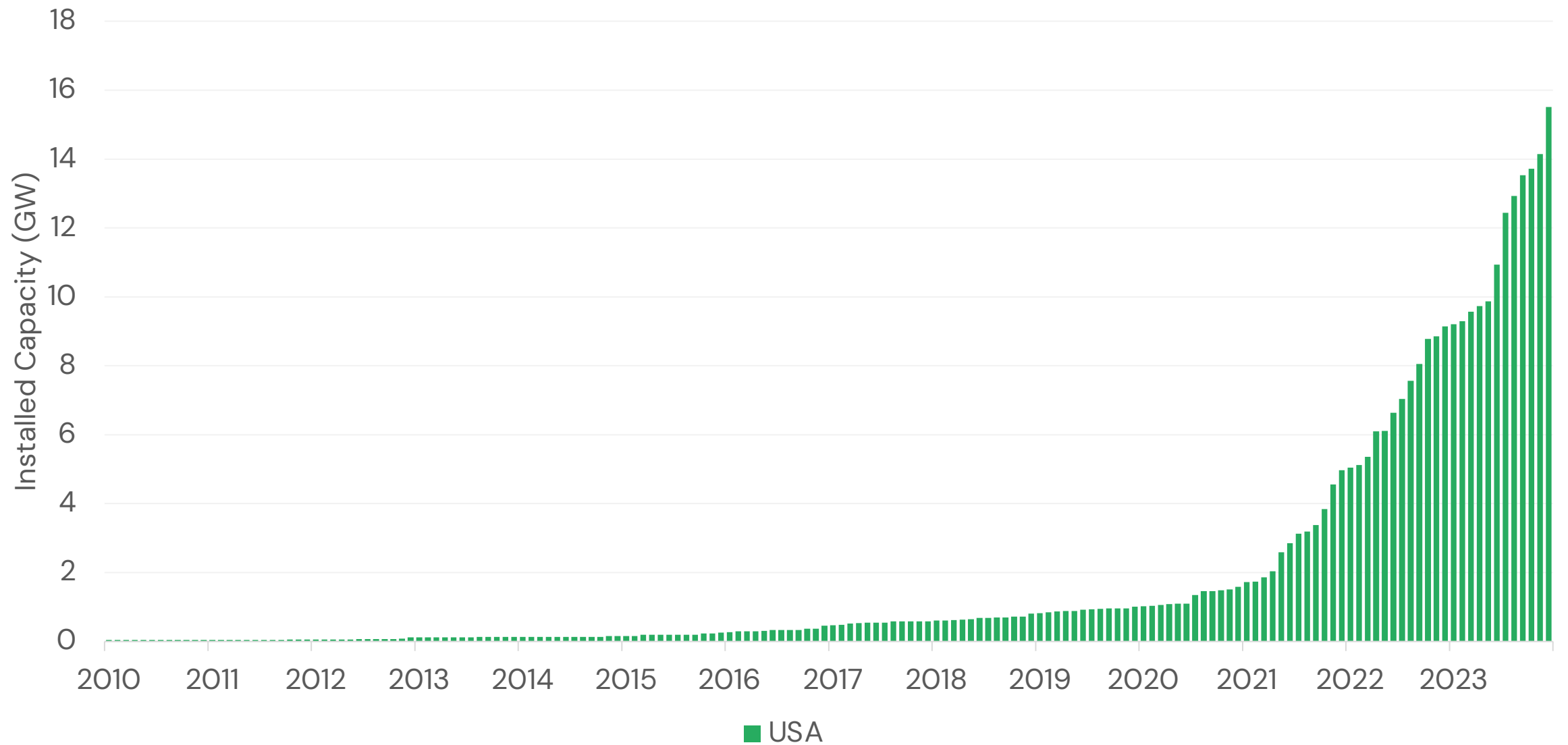
The ERCOT BESS Landscape

Quentin Scrimshire – Co-Founder and CEO

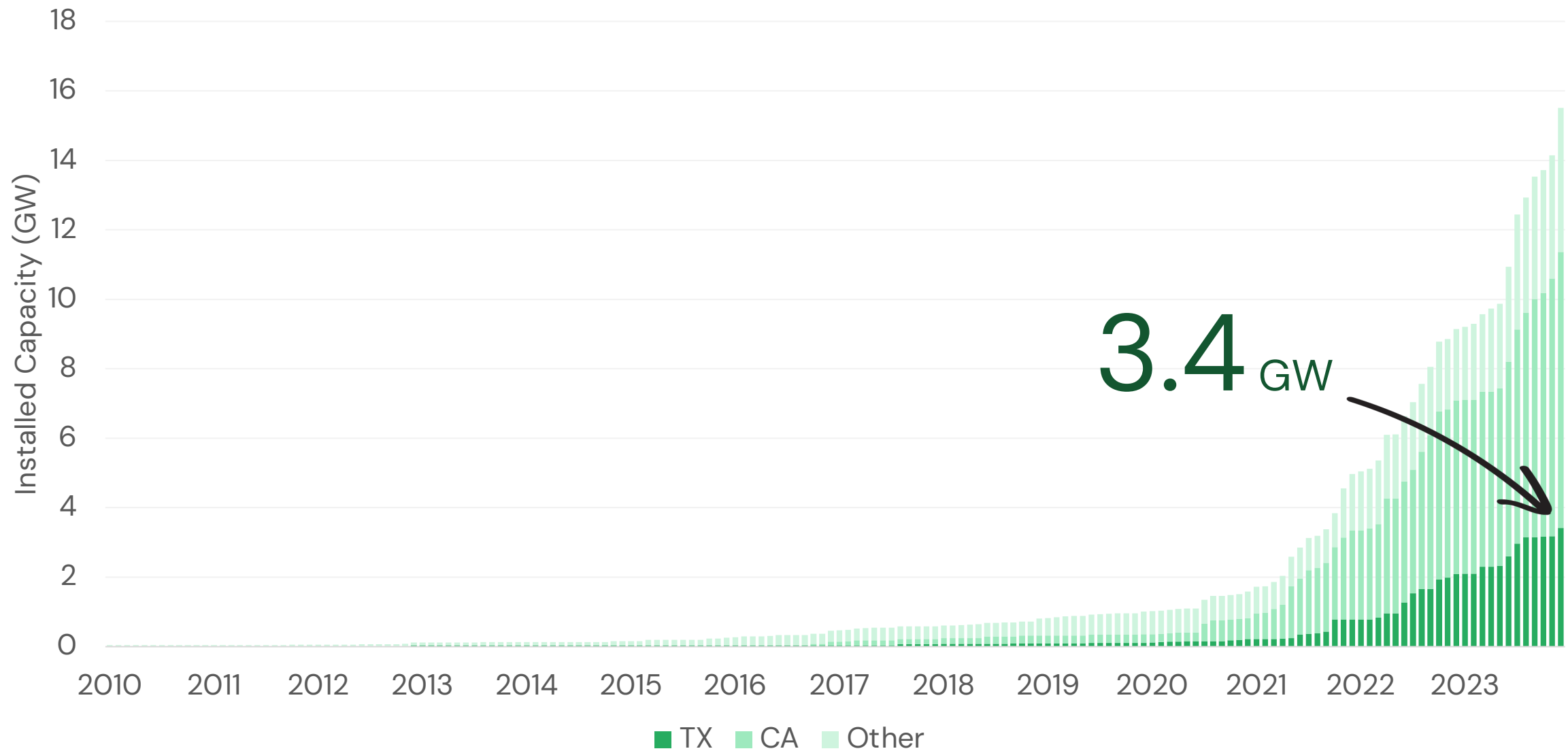
Disclaimer:

This presentation includes lots of **charts** and **colors**.

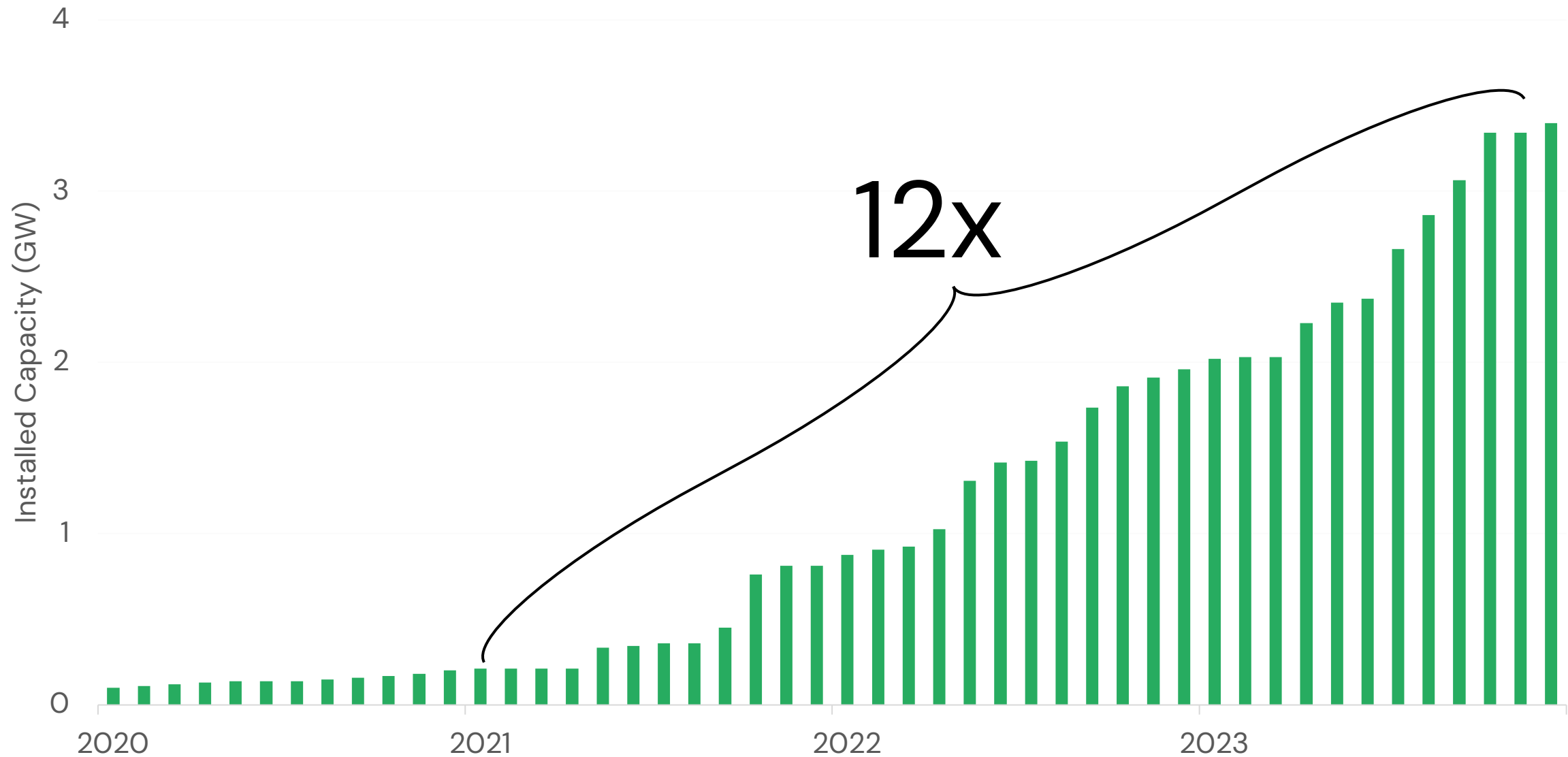
The **USA** is deploying BESS at record pace.



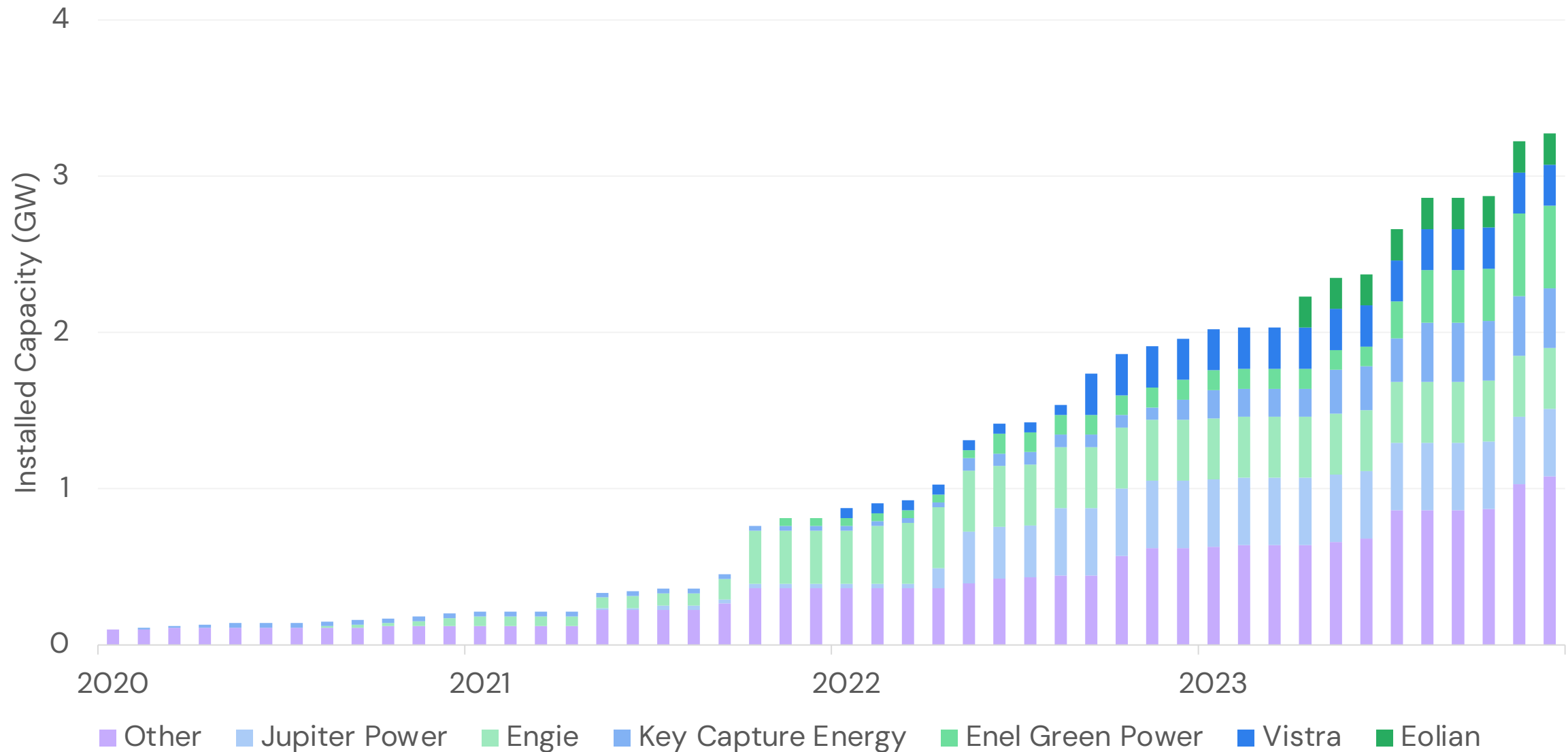
Now, lets look at Texas.



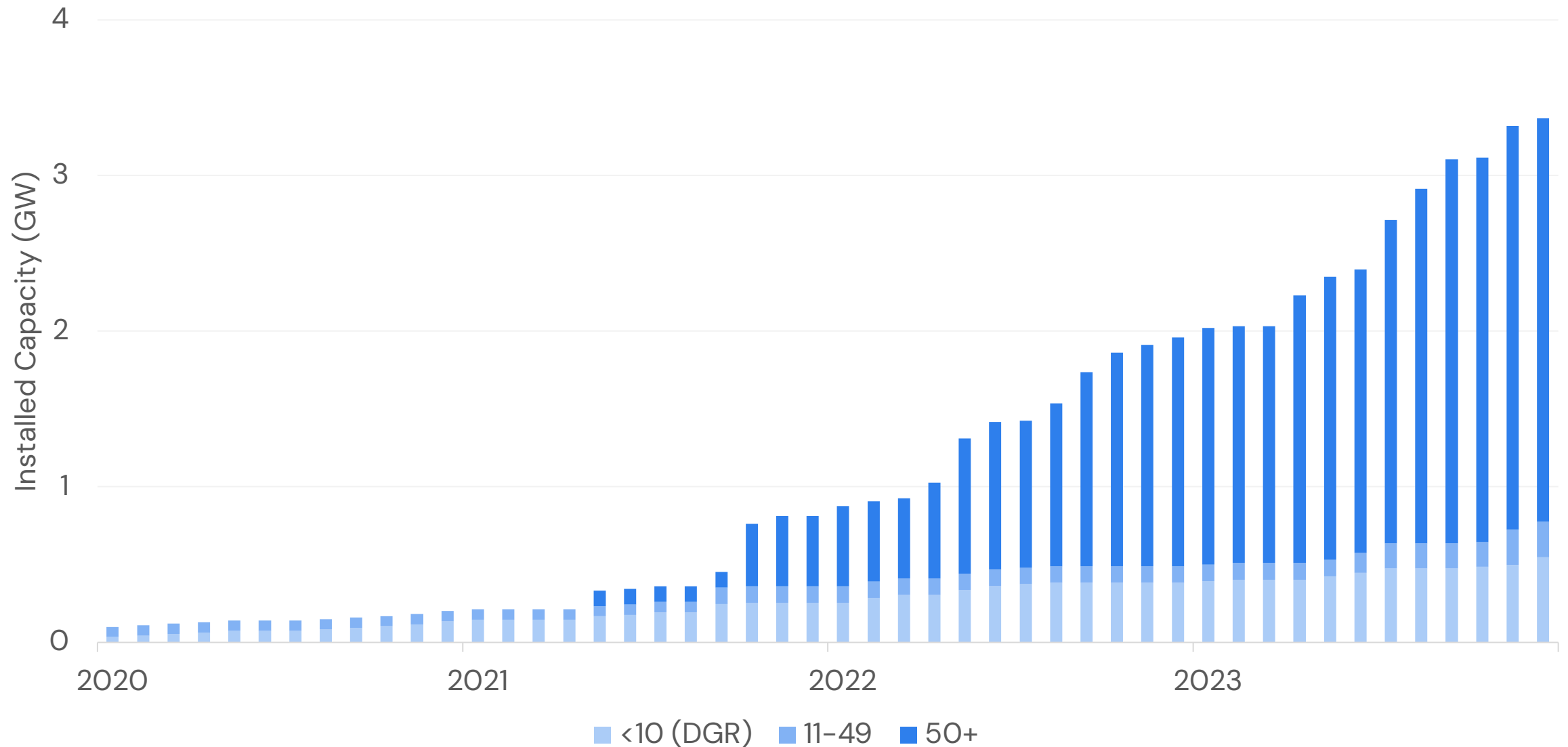
We've gotten here **quickly.**



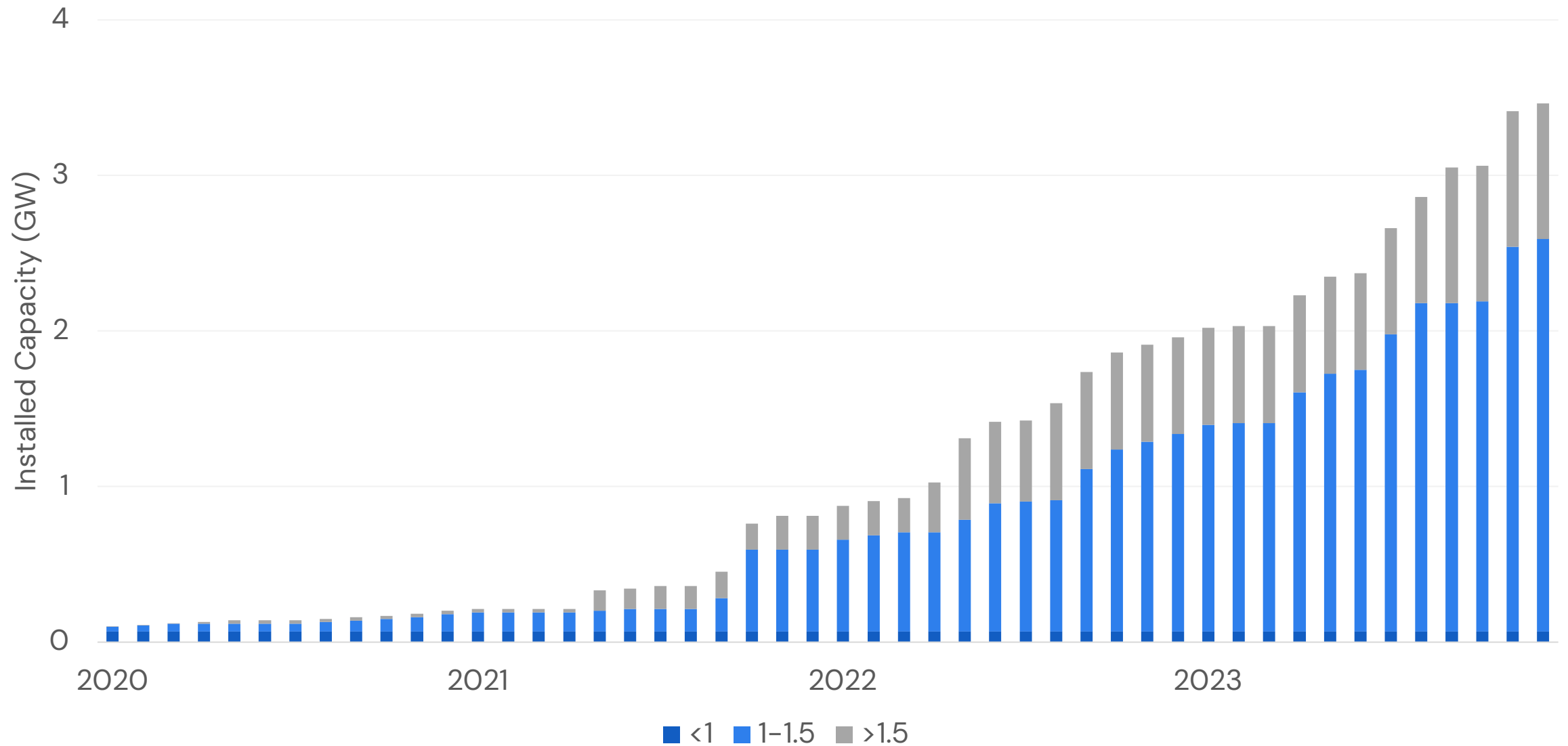
Who made it happen?



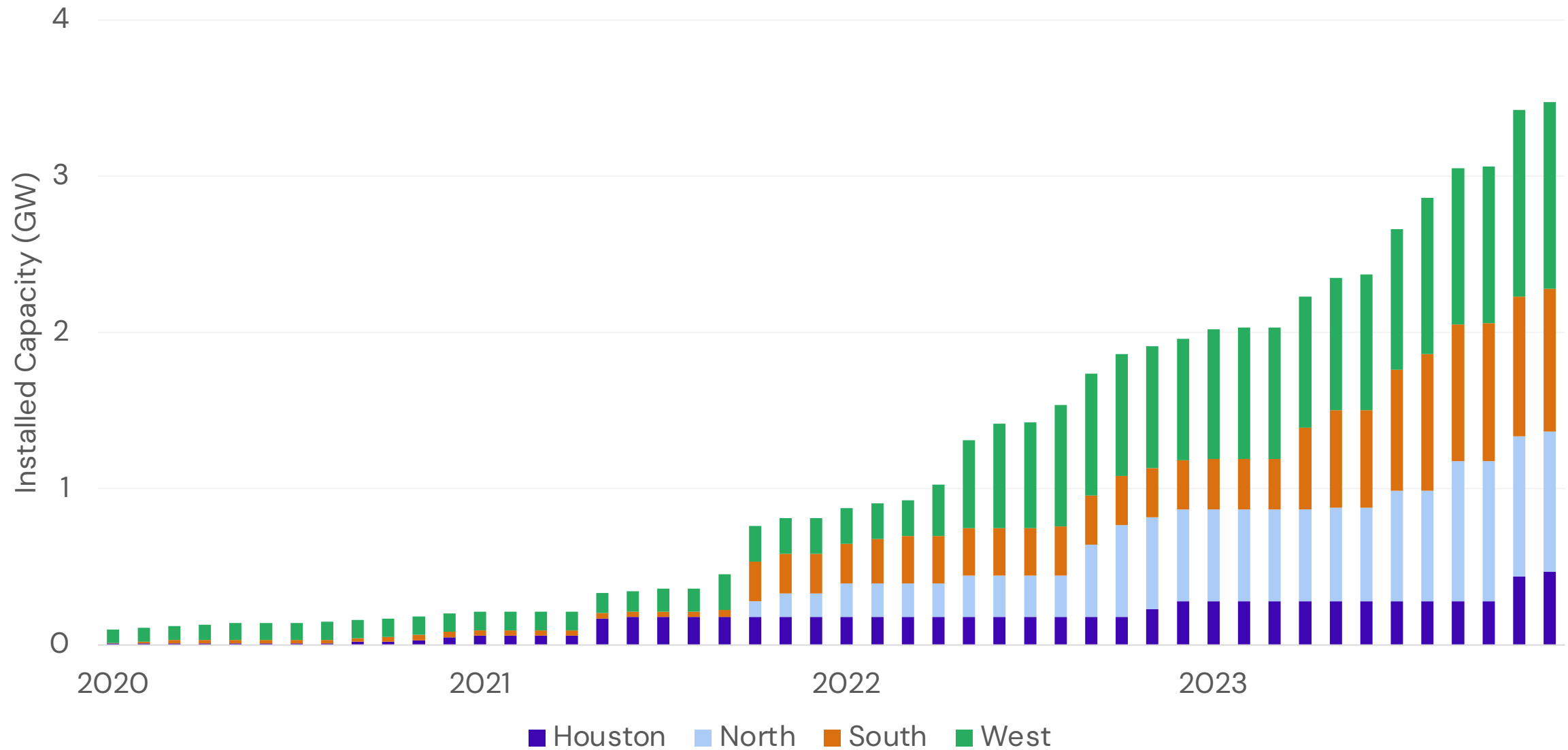
It's all getting much bigger.



Status quo = 1h

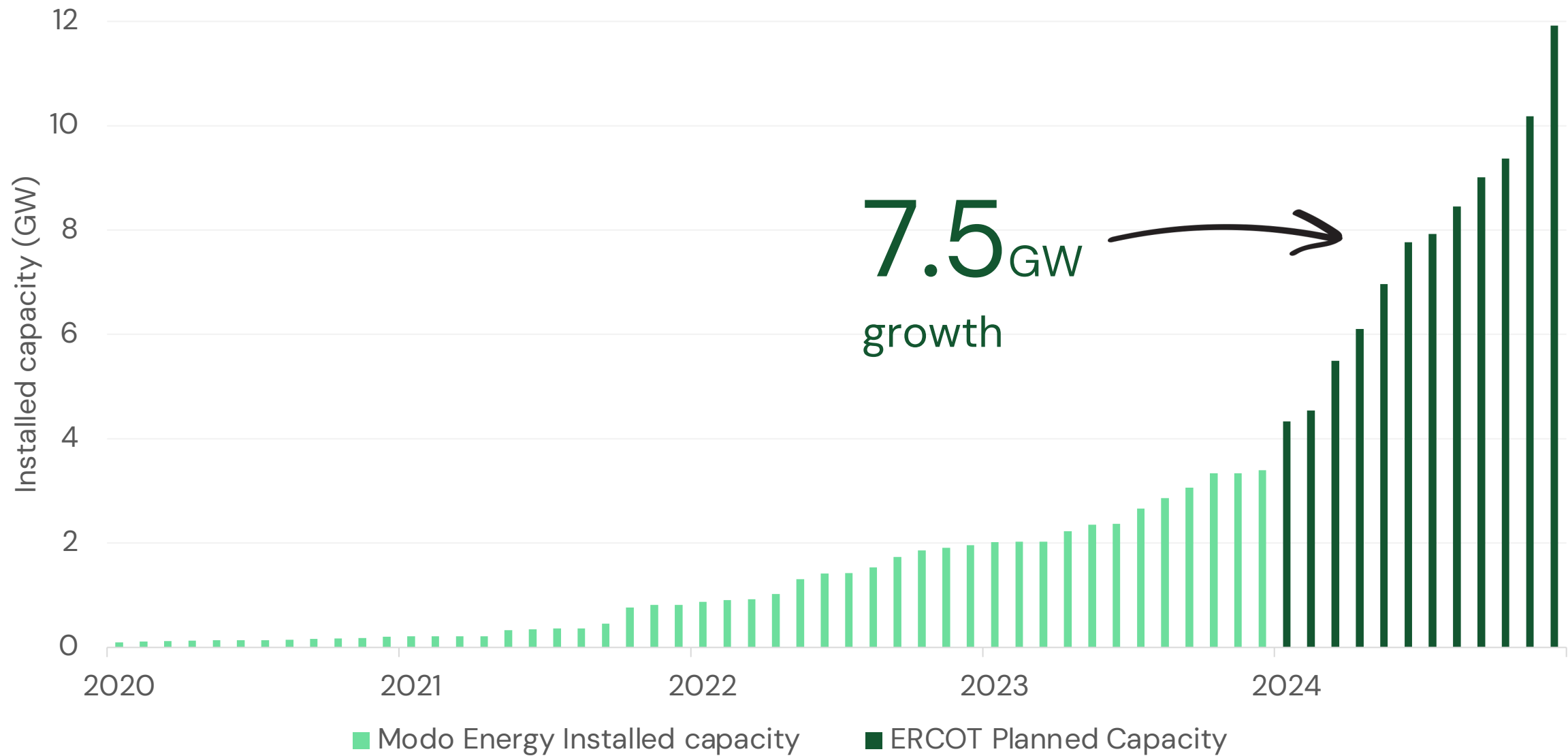


Batteries are being built **across Texas.**



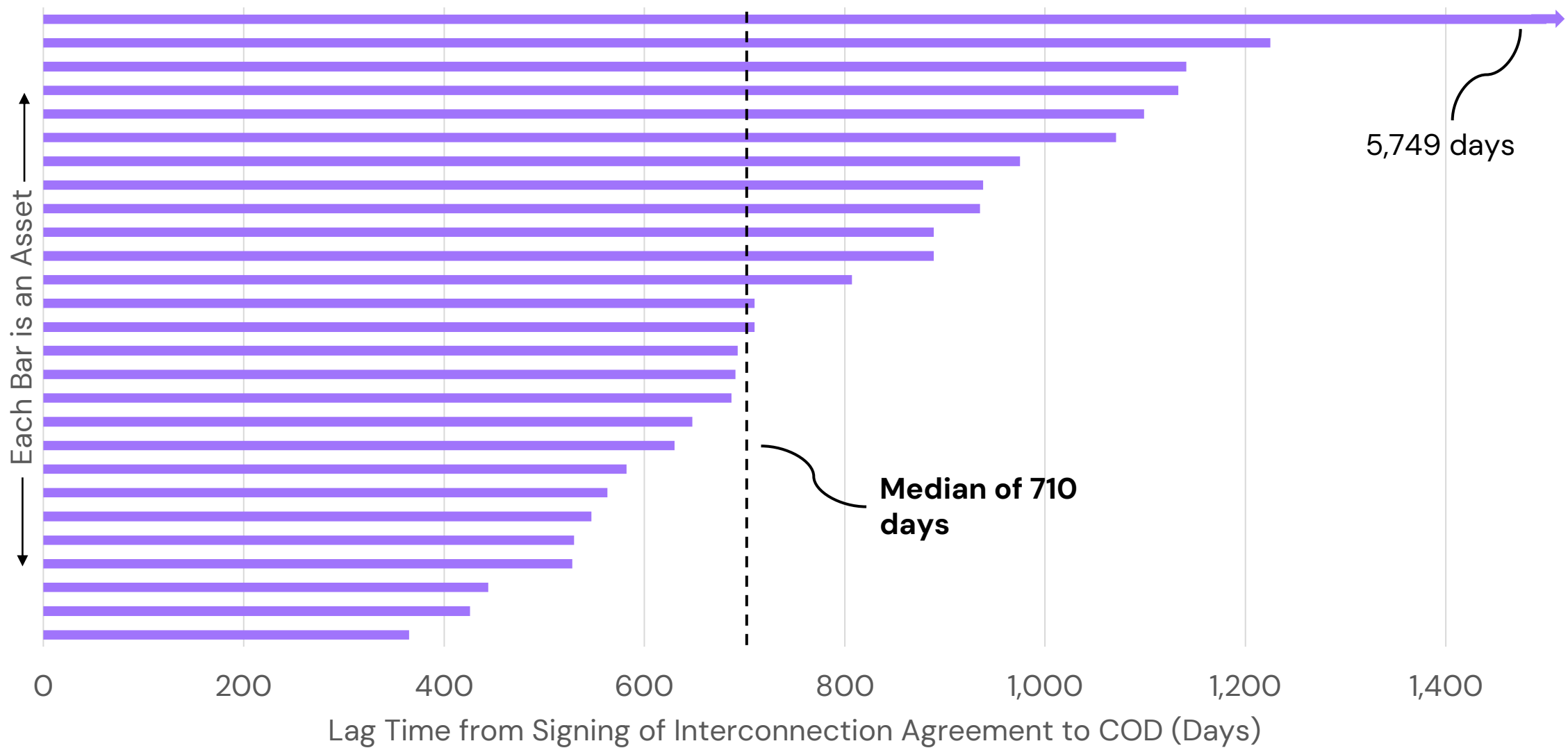
What's coming next?

Let's ask **ERCOT**.

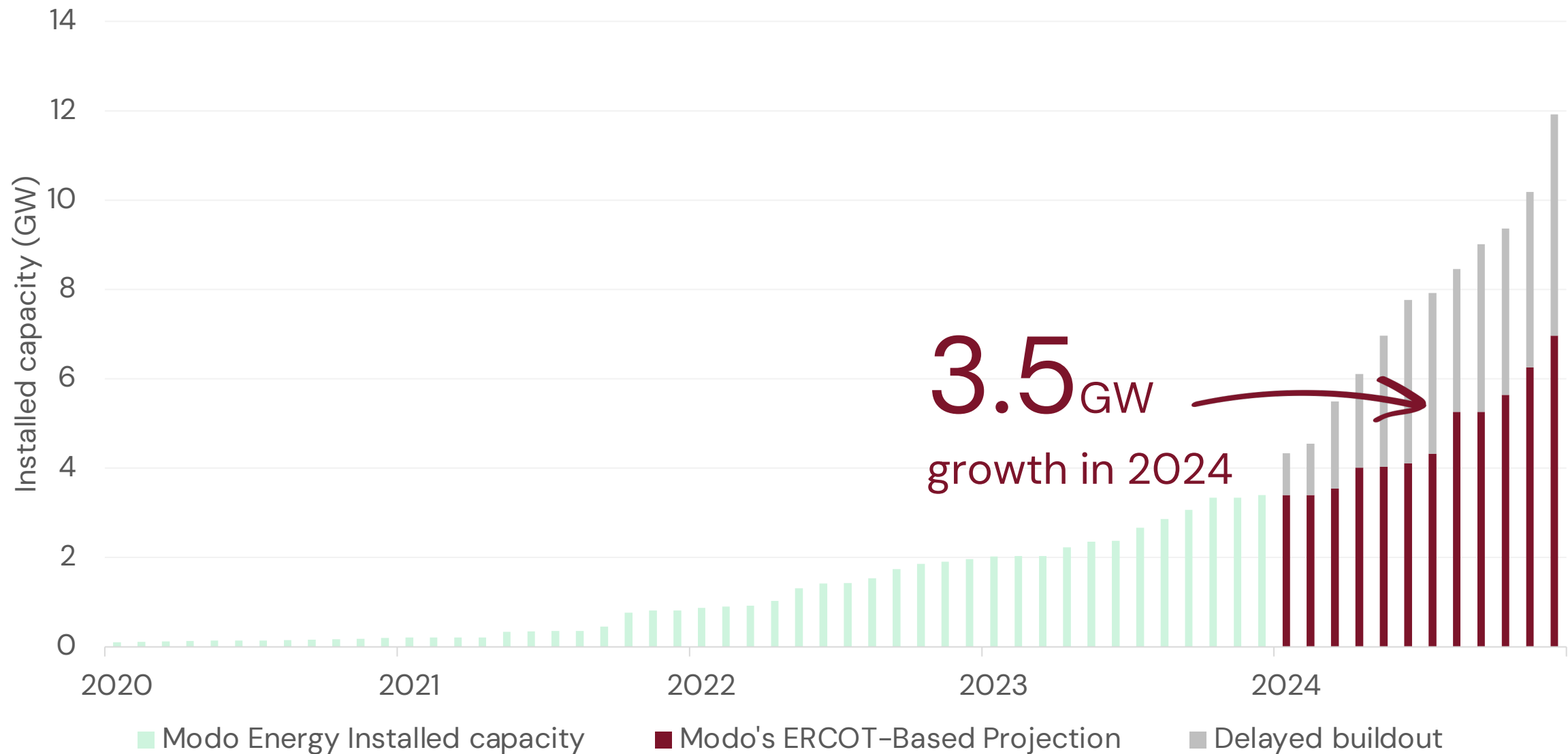


7.5GW in one year.

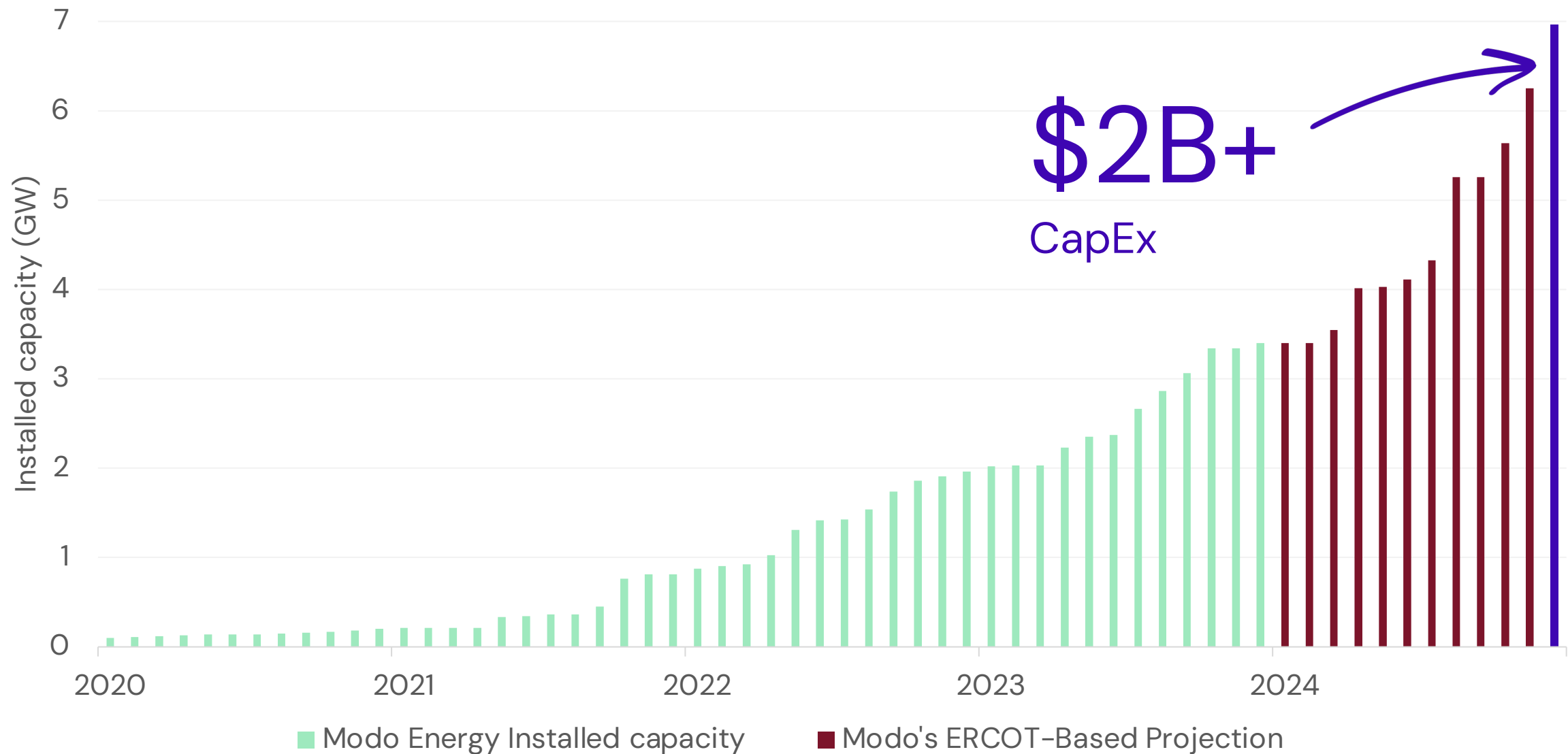
Can we build that fast?



So, what's *really* going to happen?

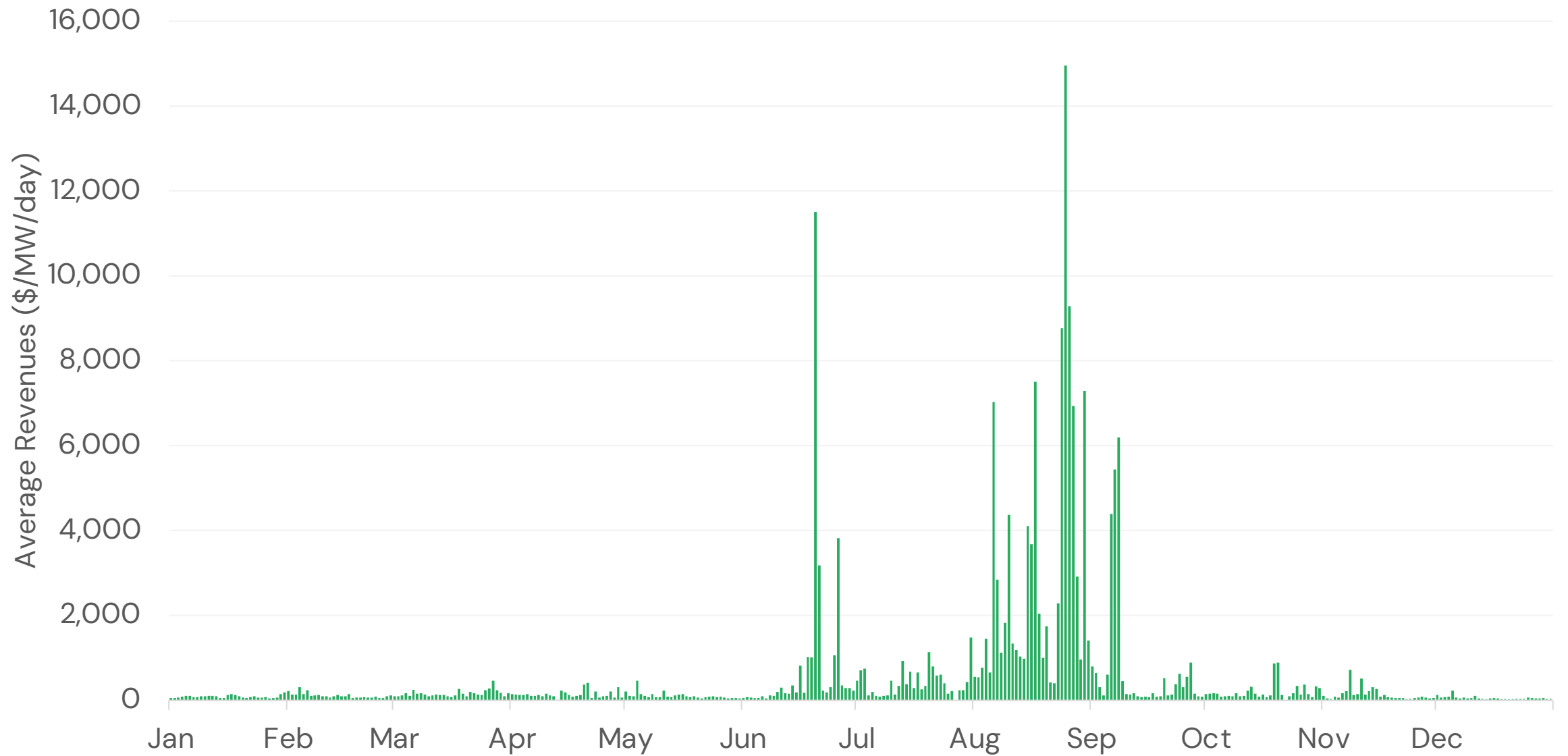


What's it going to cost?



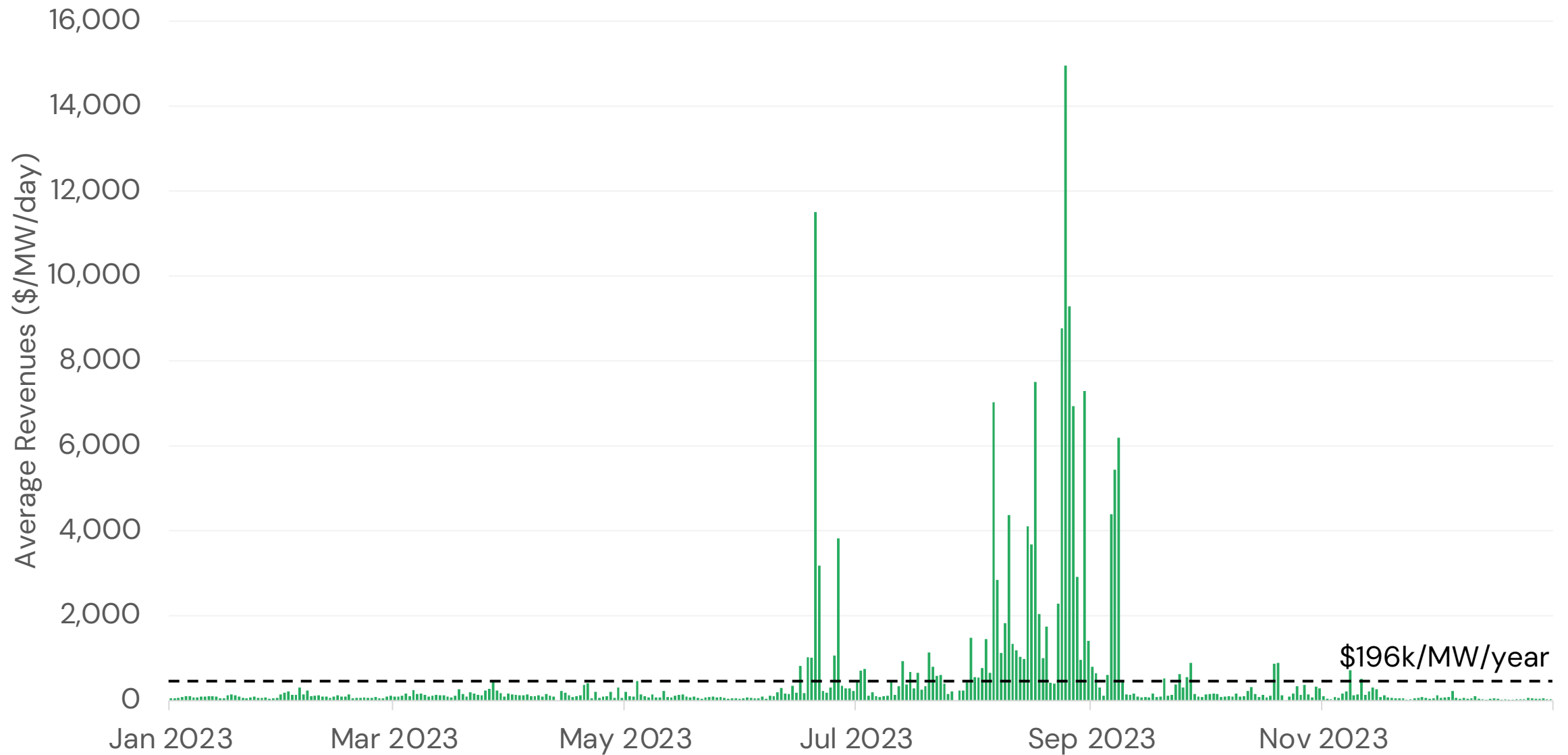
Now, let's talk revenues.

Introducing the **Modo Index**.



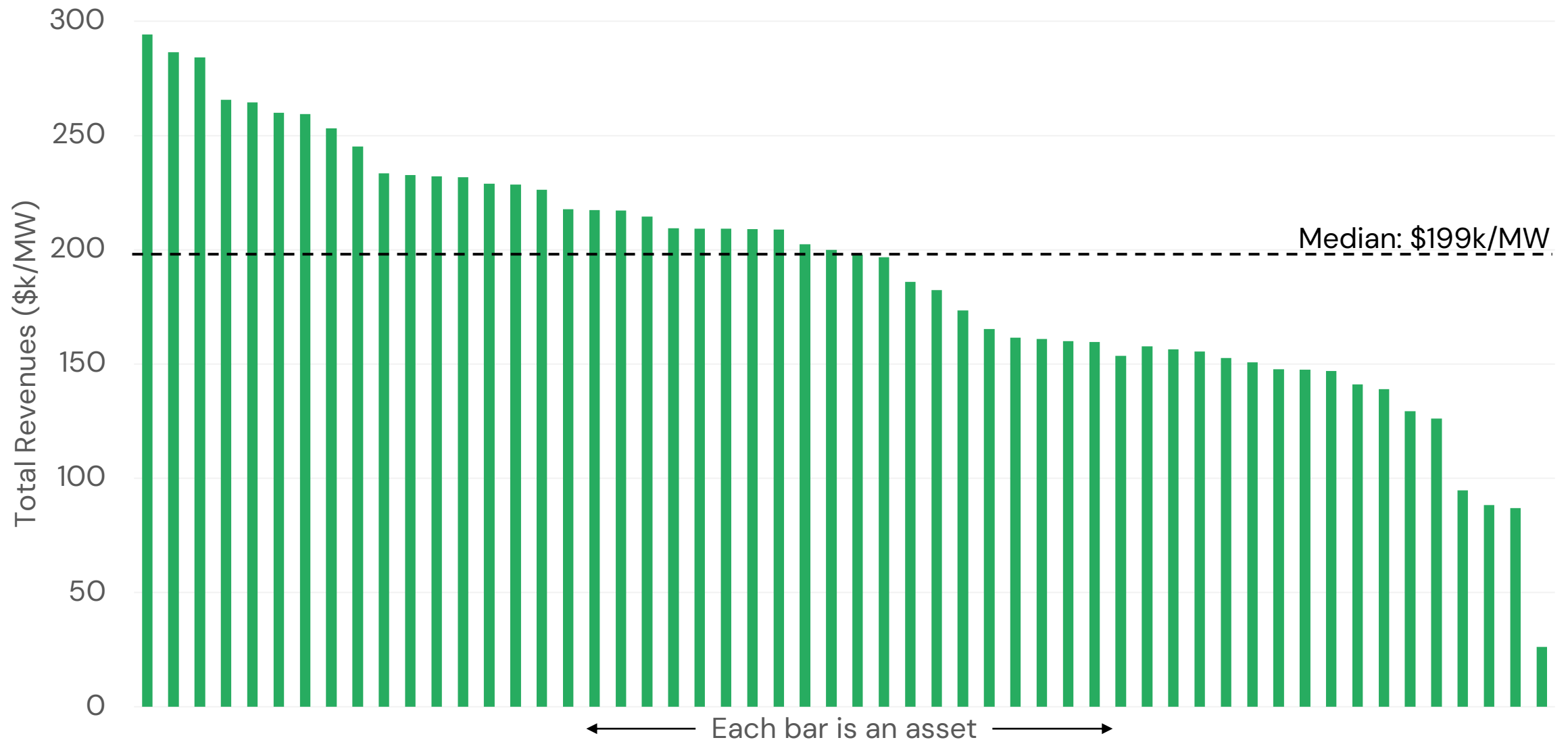
MODOENERGY

What were **average earnings** in 2023?

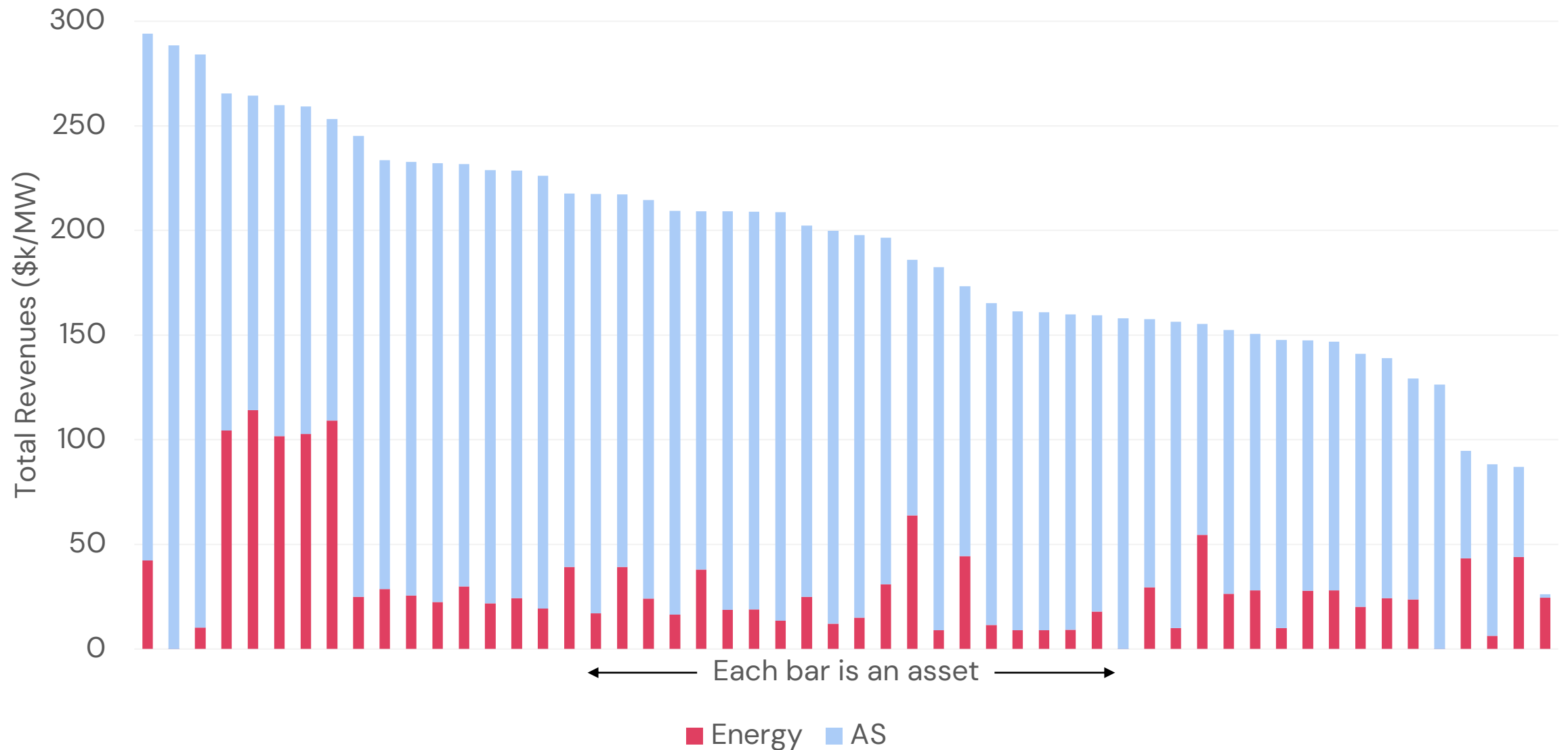


Pretty good.

But, not all **assets** are created equal.

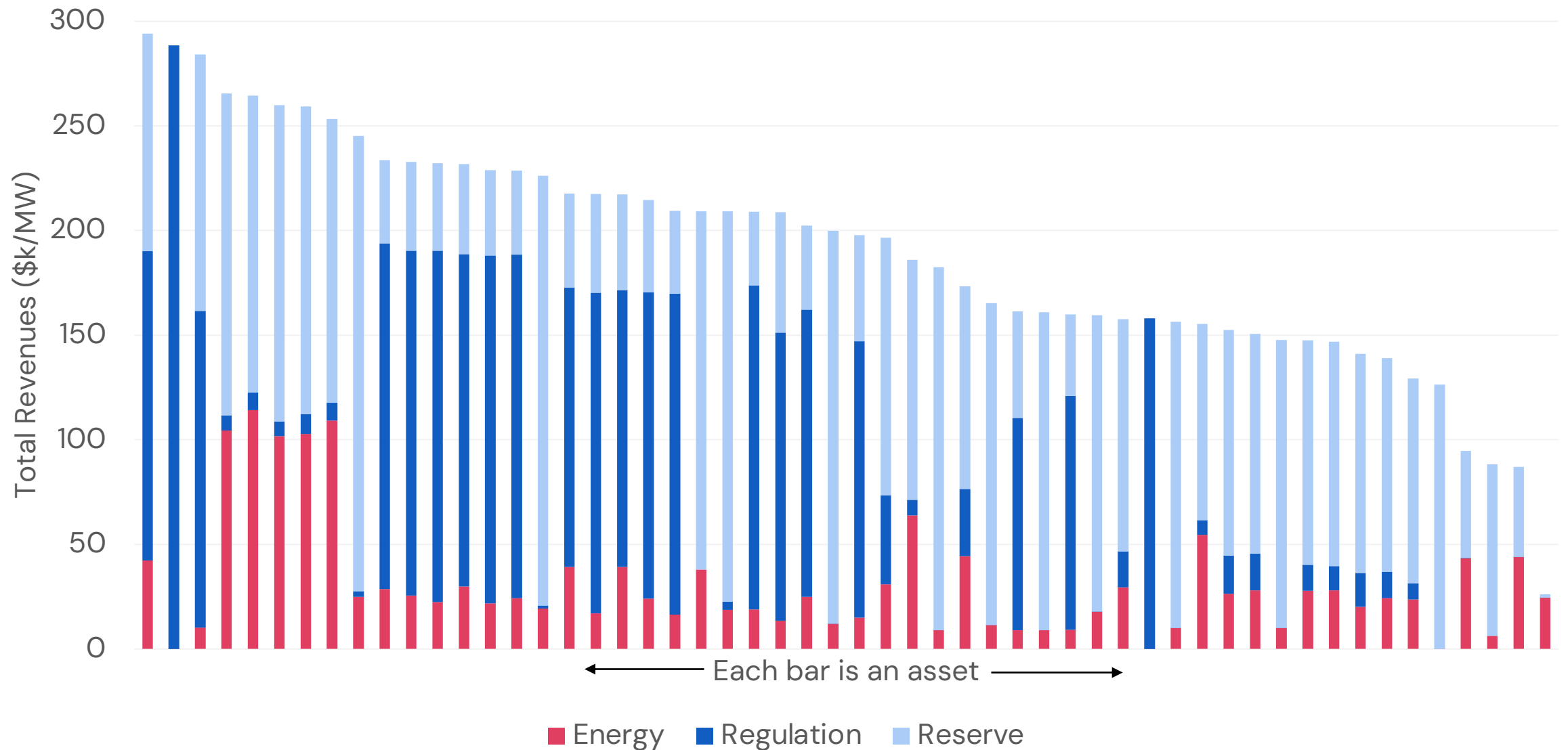


Let's look at **Energy** vs. **Ancillary Services**.

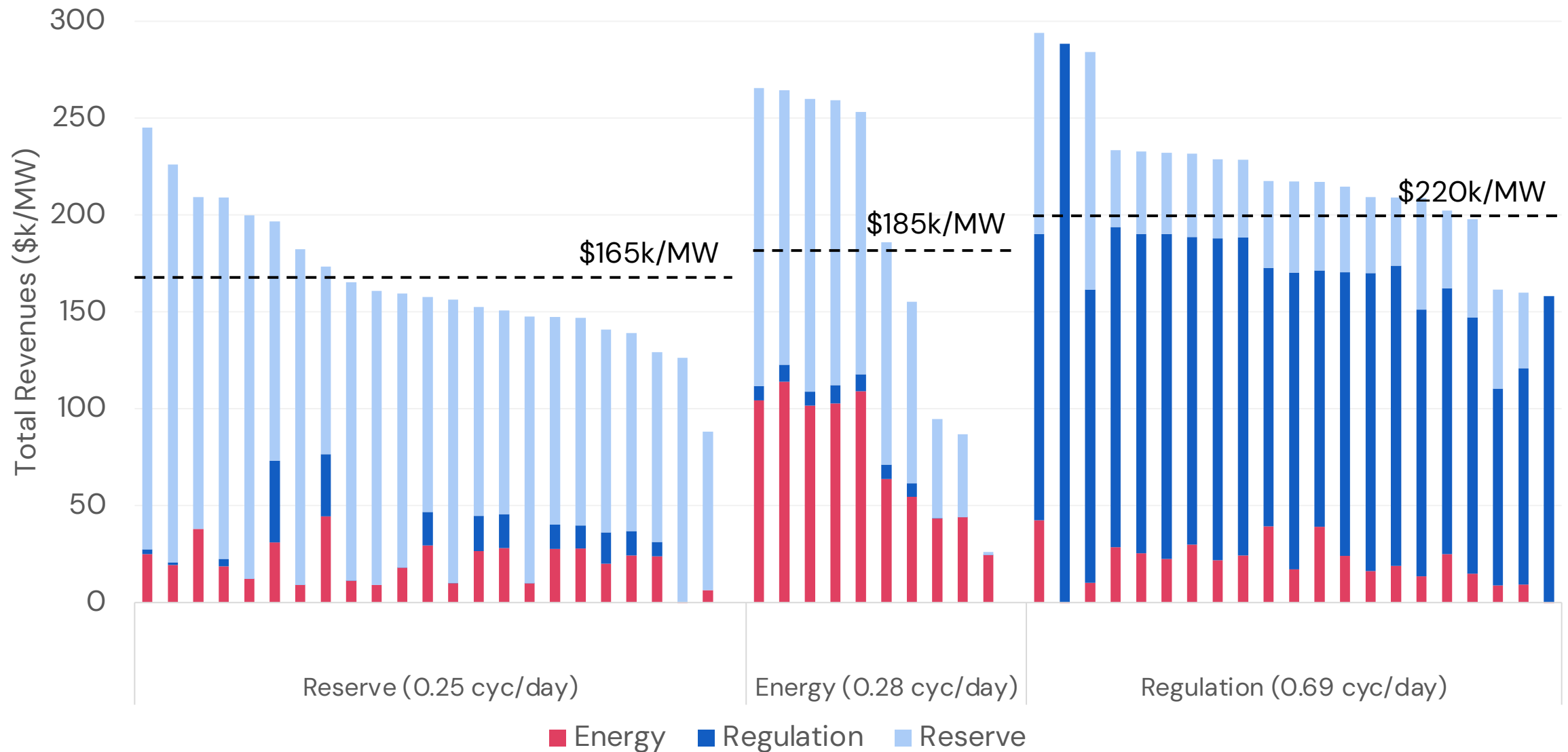


Note: Only assets commissioned before the beginning of 2023 are included in this image

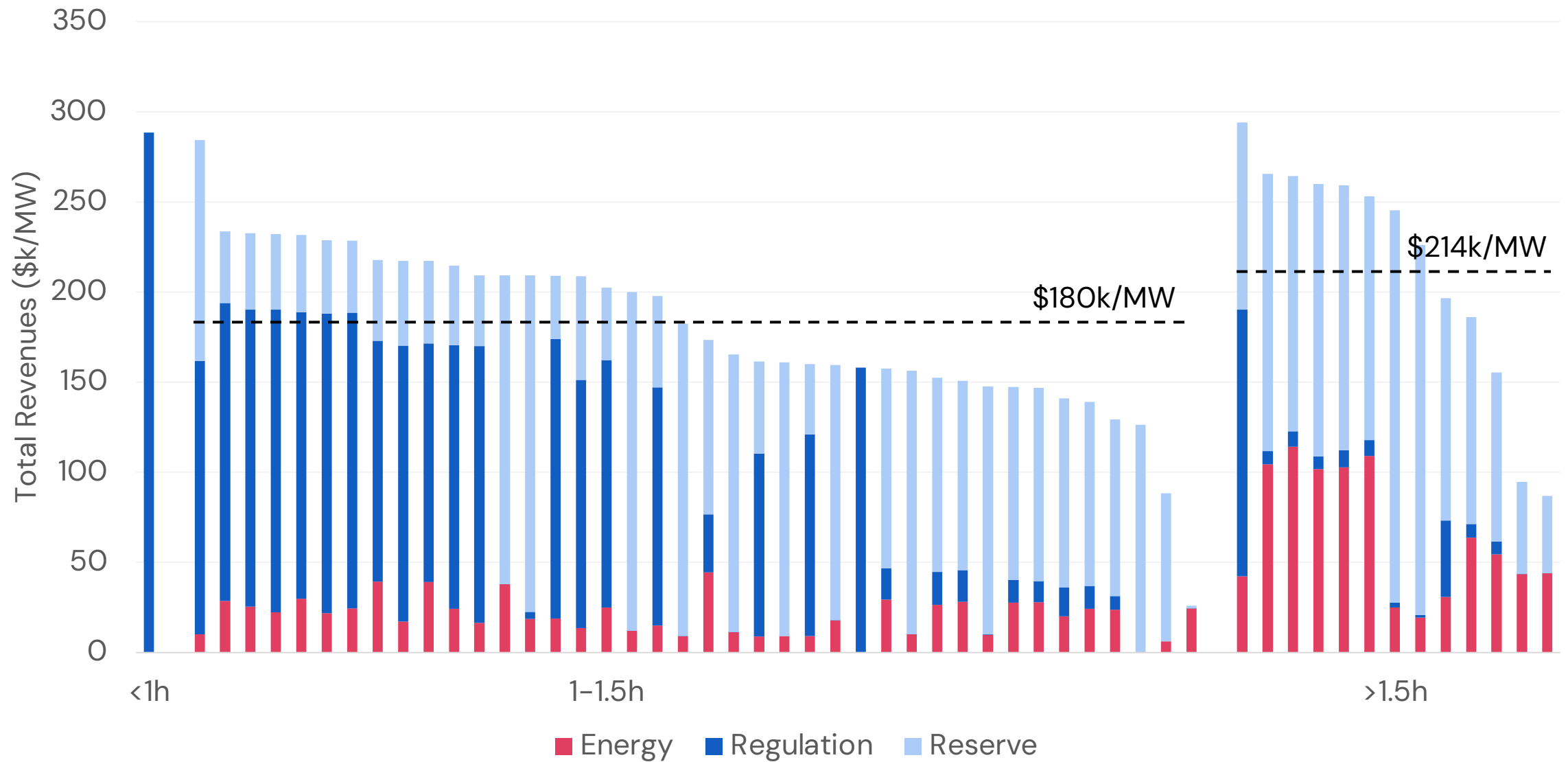
Let's break out Ancillary Services.



Which strategy was the best?

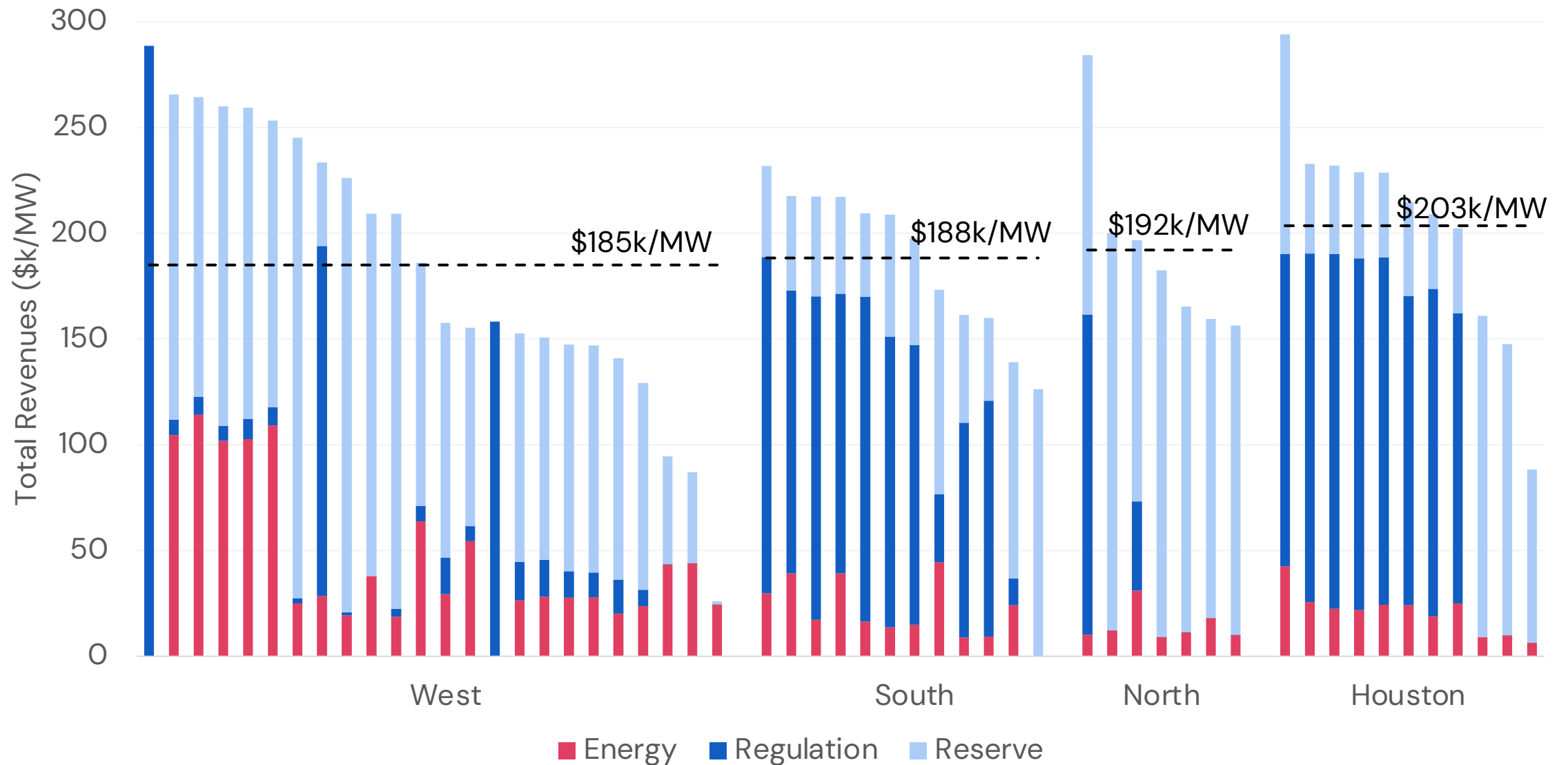


Which duration is in the money?



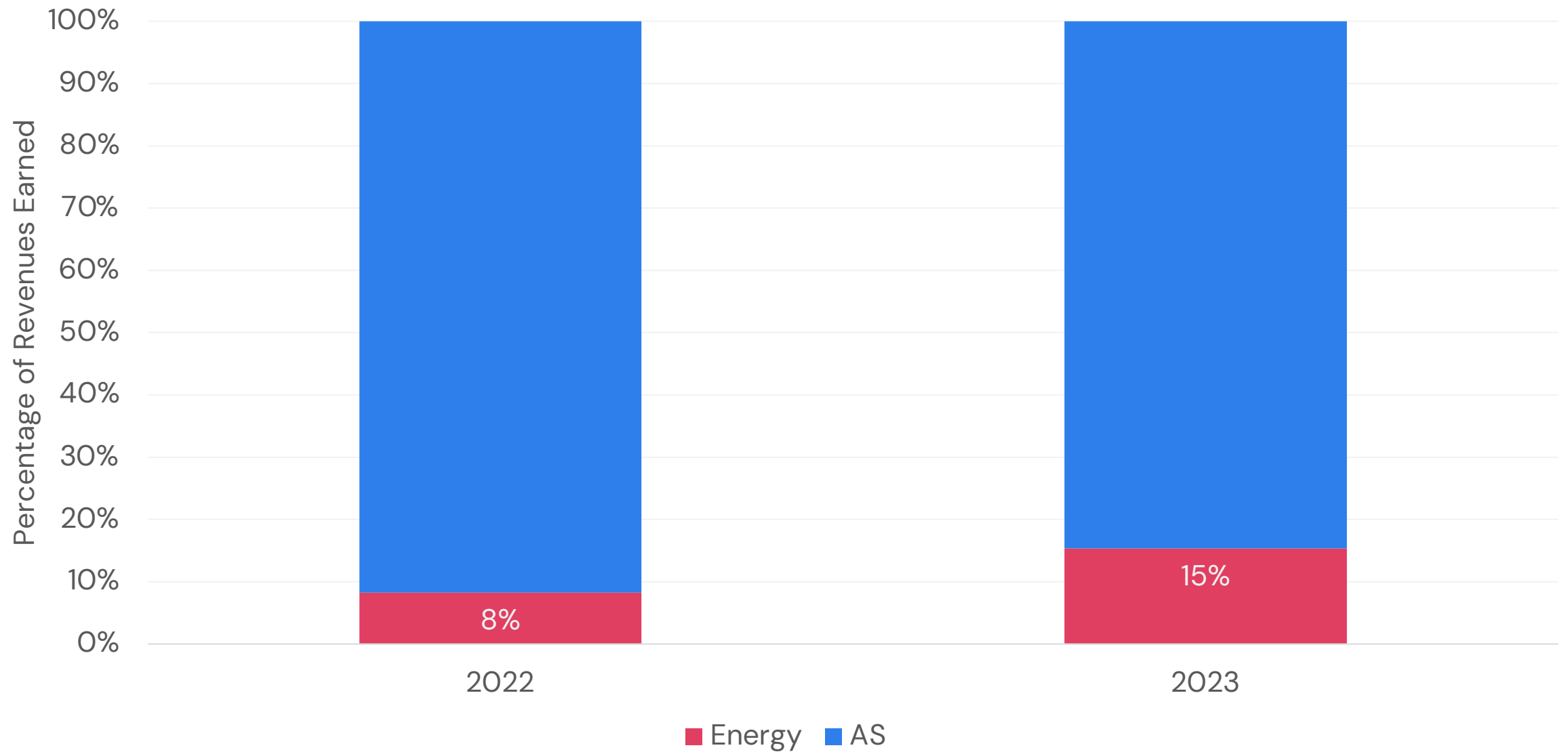
Note: Only assets commissioned before the beginning of 2023 are included in this image

Location is everything in ERCOT, right?

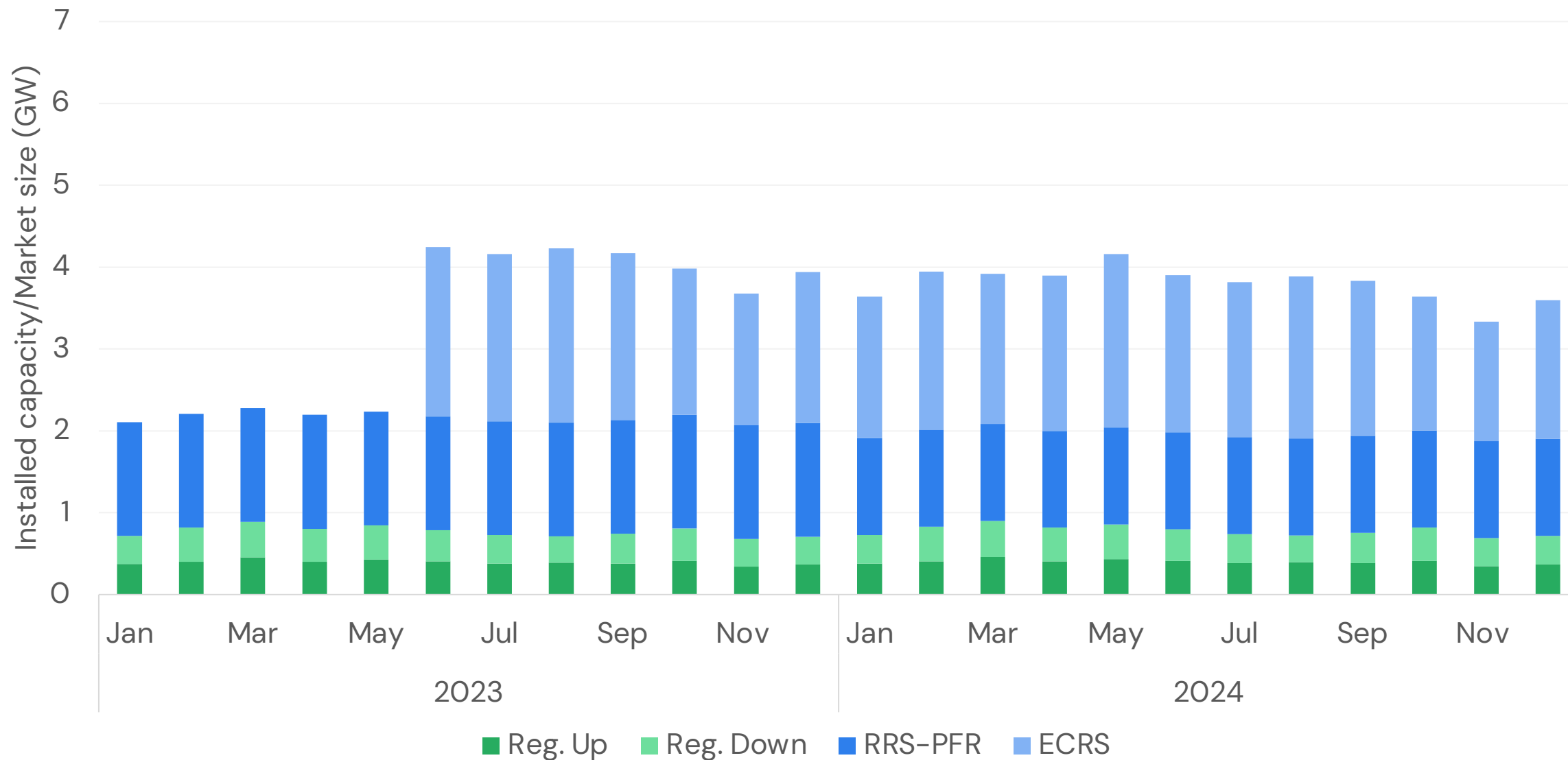


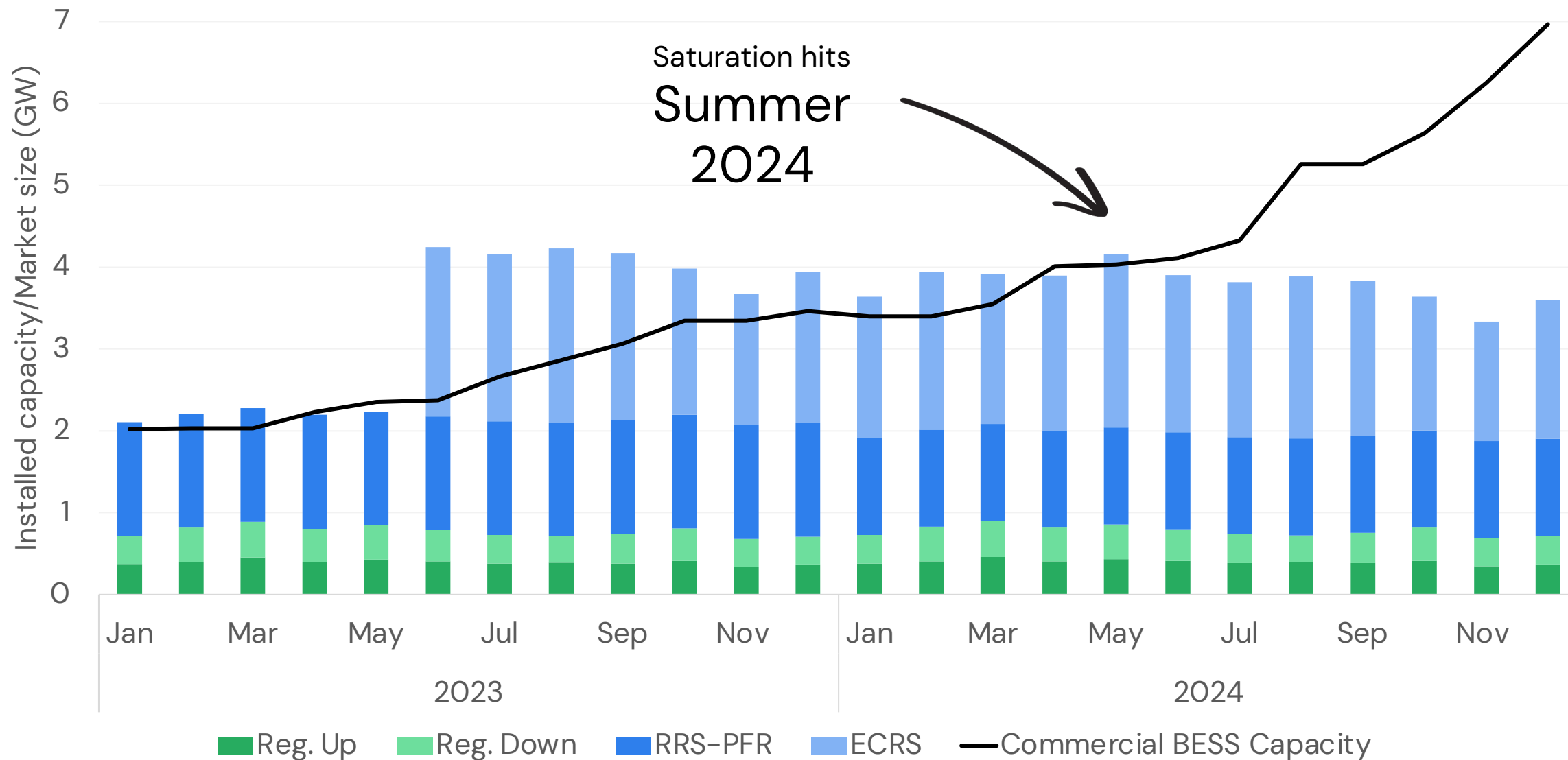
West is best – but only for energy

Let's revisit **Energy** vs. **Ancillary Services**

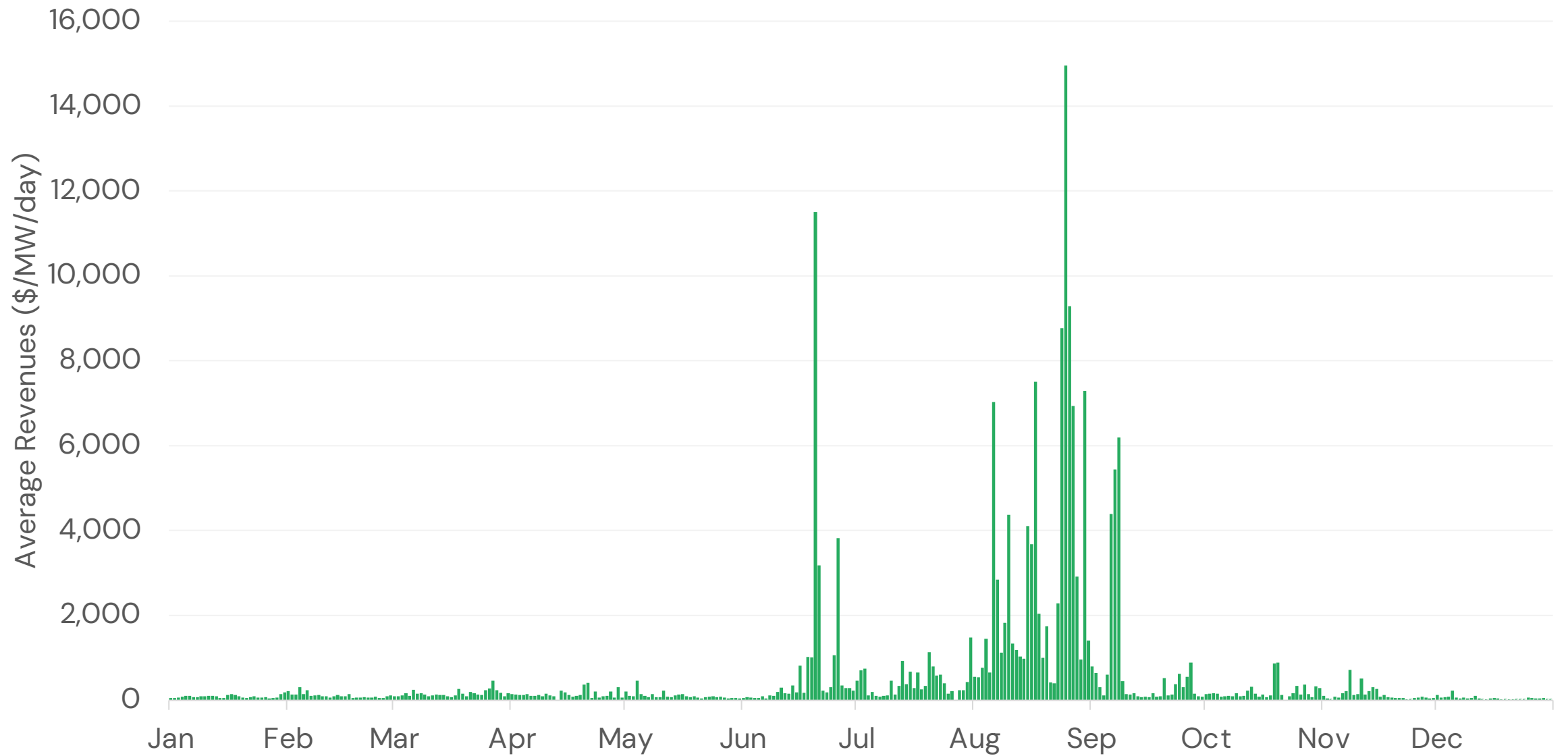


Saturation will change the game.

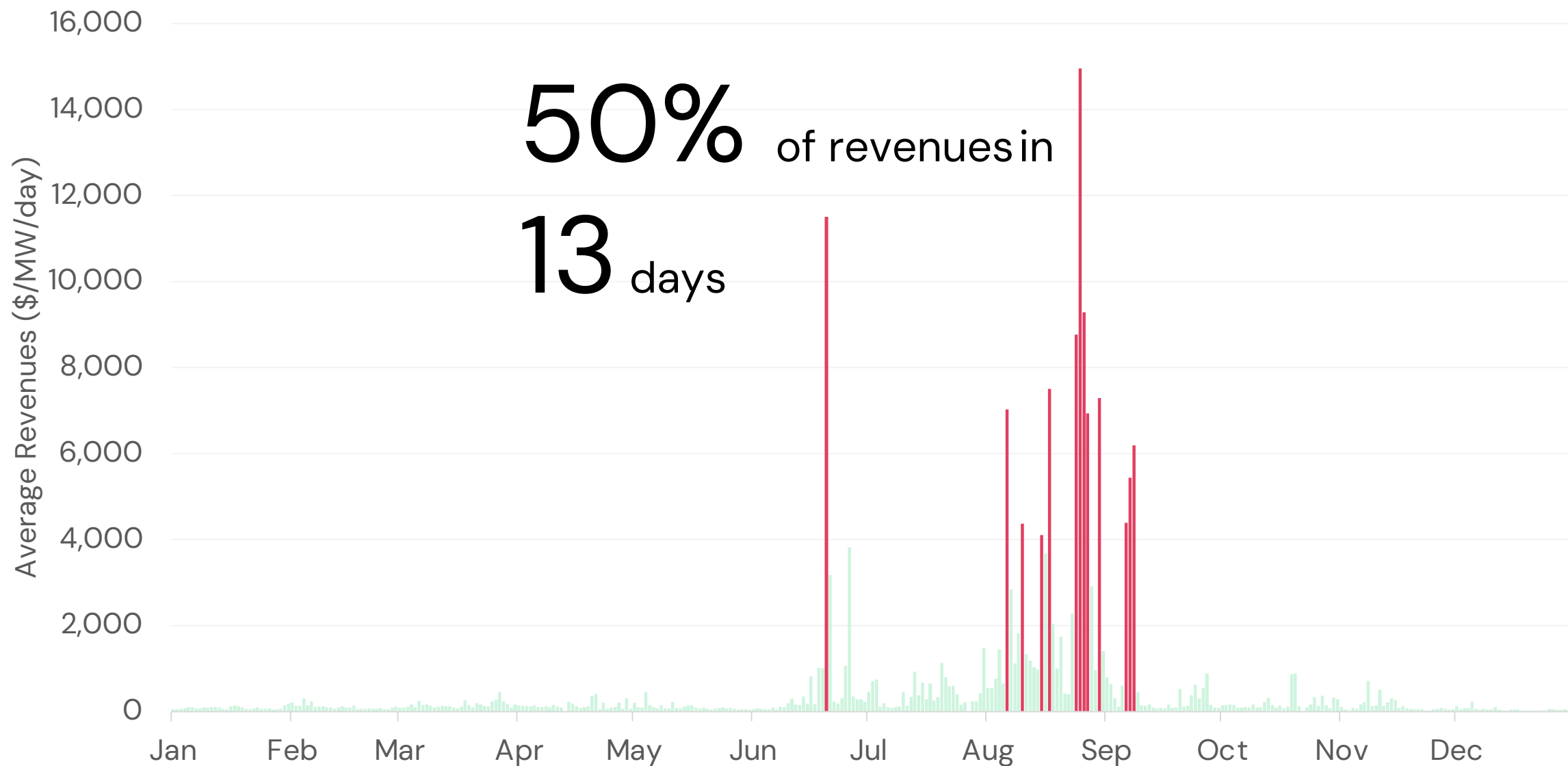




Without Ancillary Services, volatility
is everything

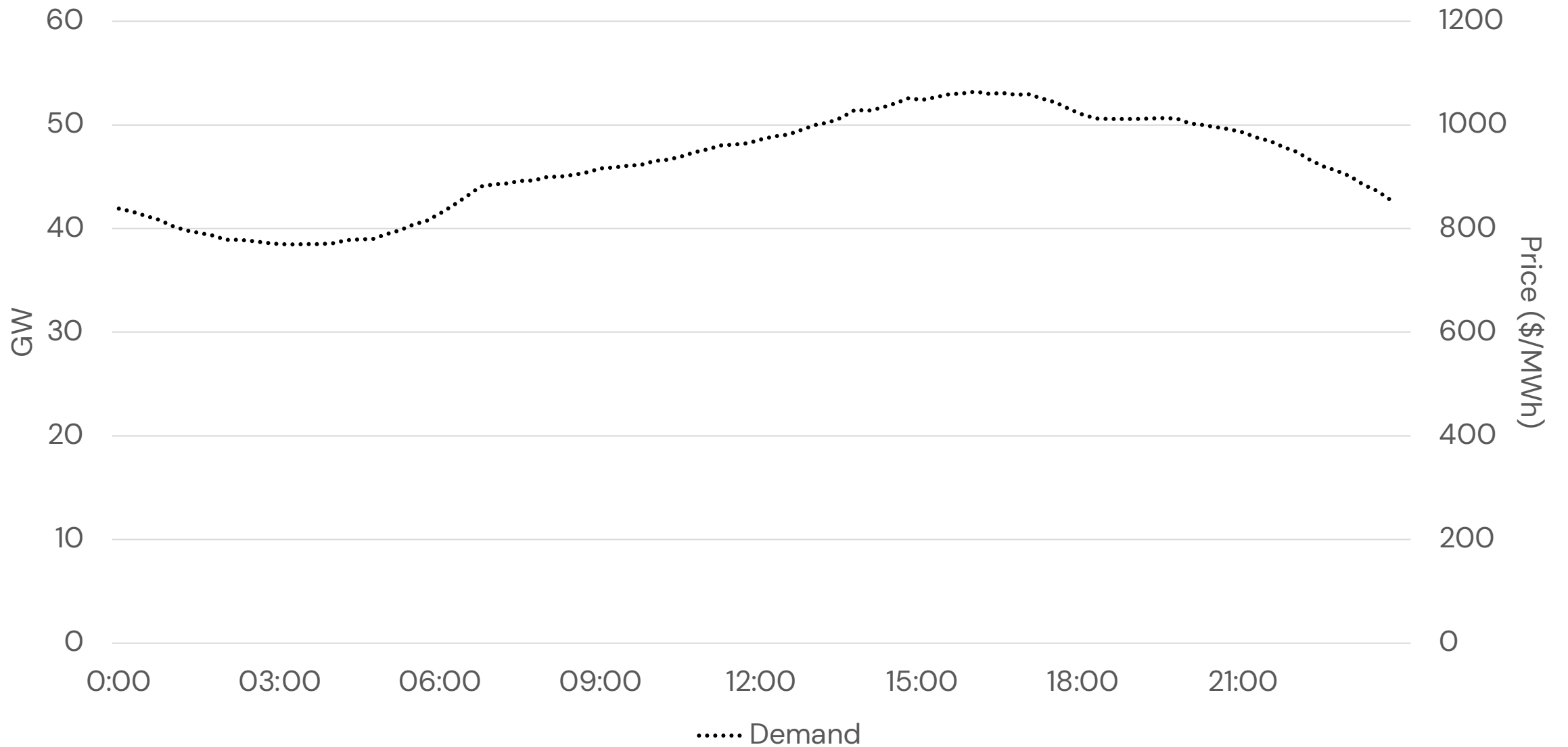


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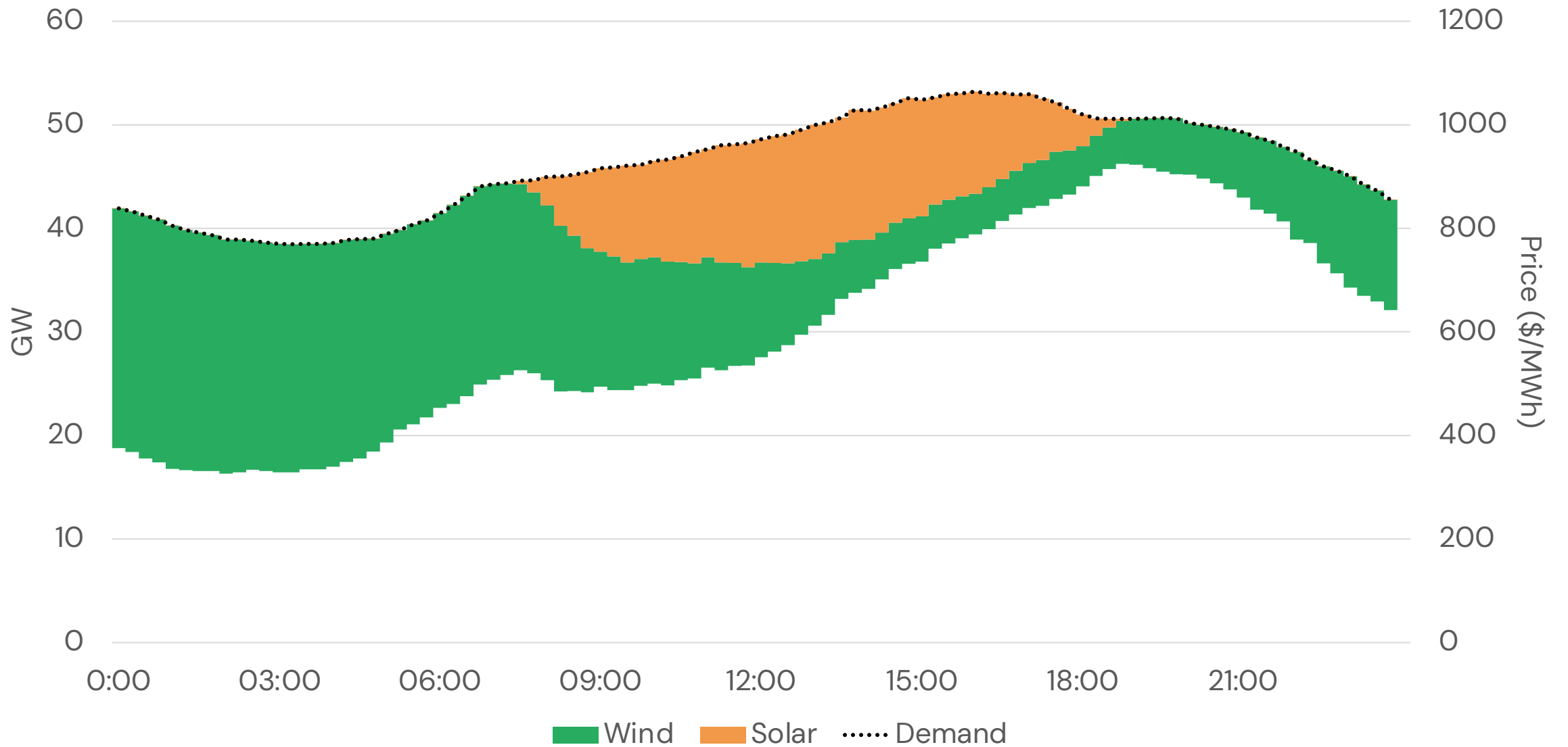


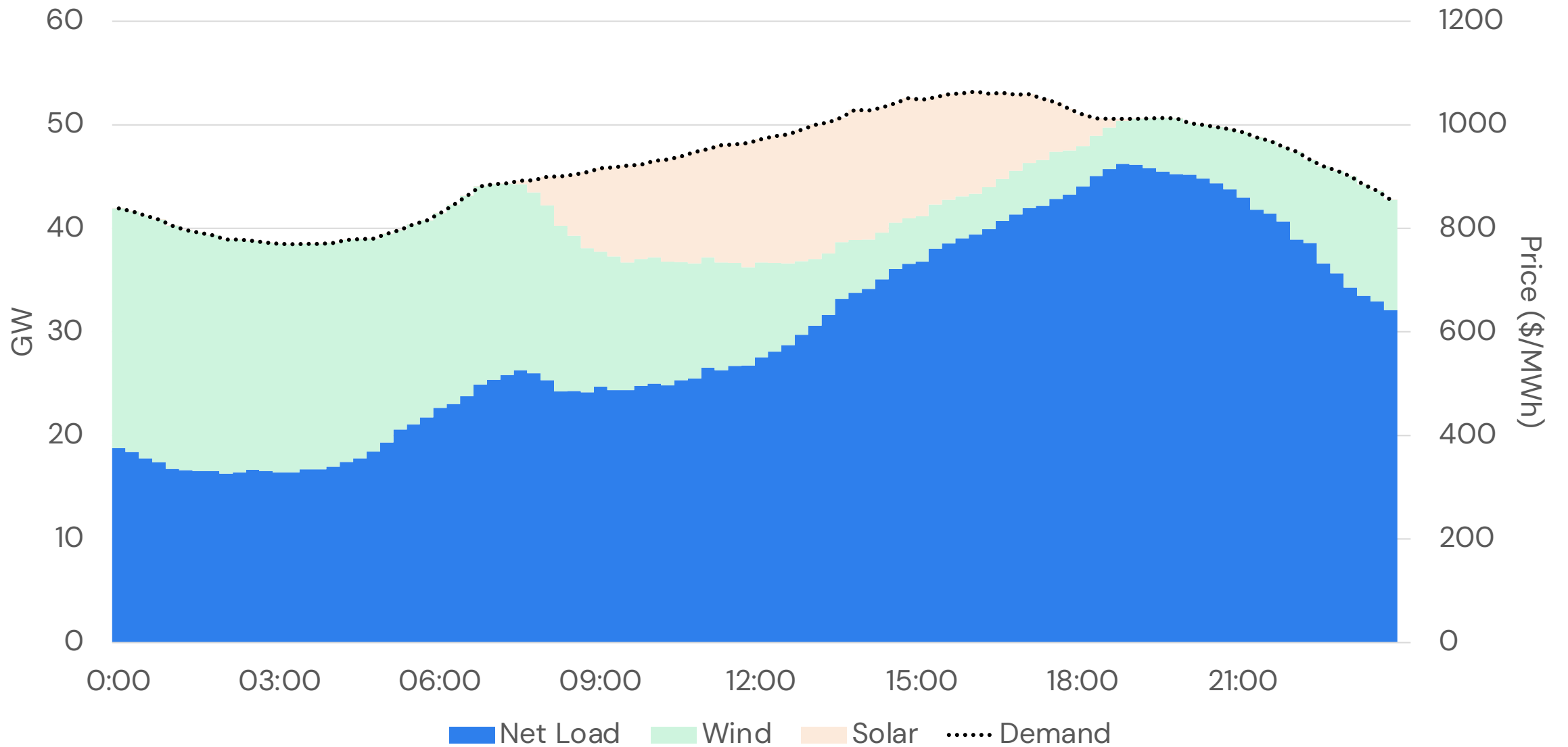
When do we see the most volatility?

High demand + high solar = Net load ramps

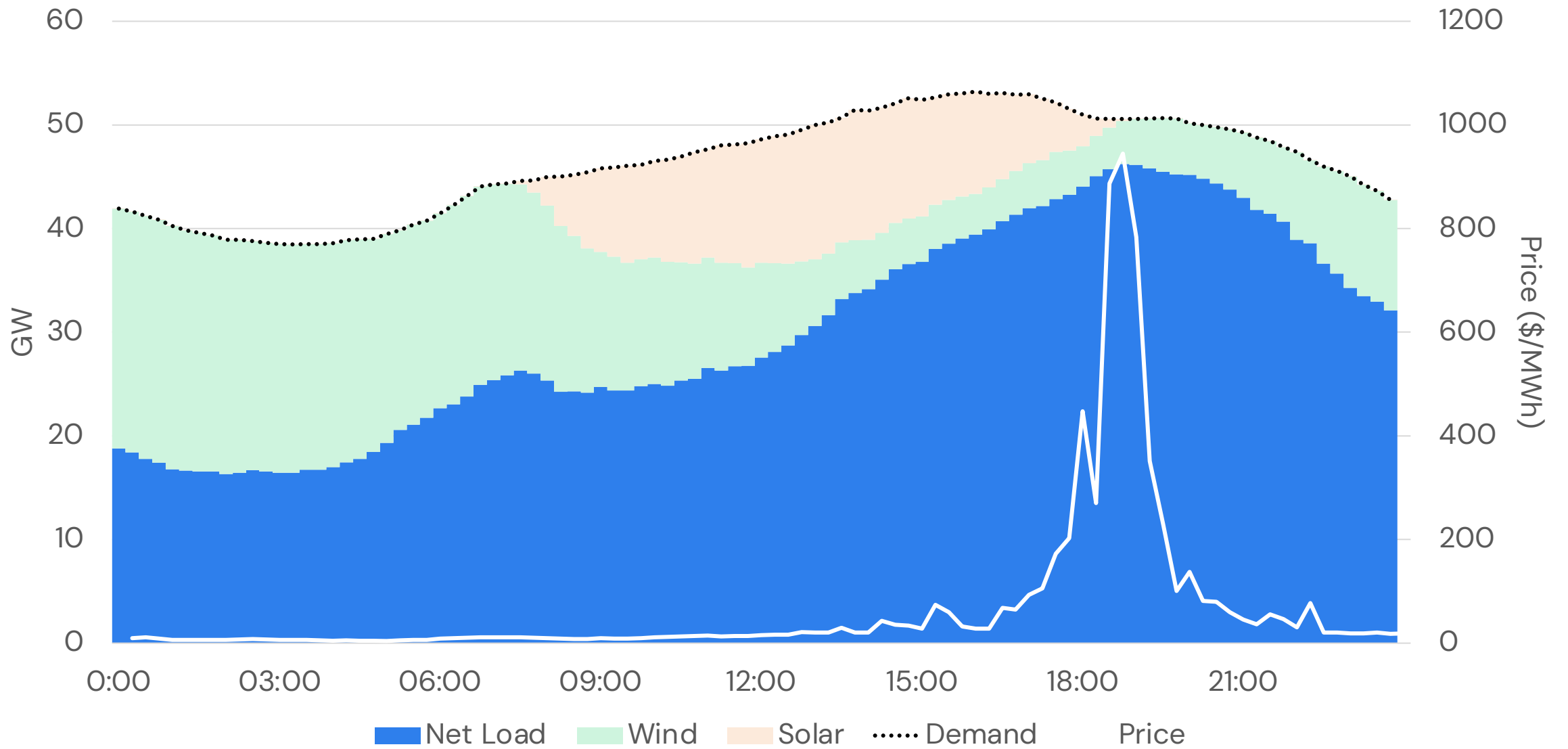


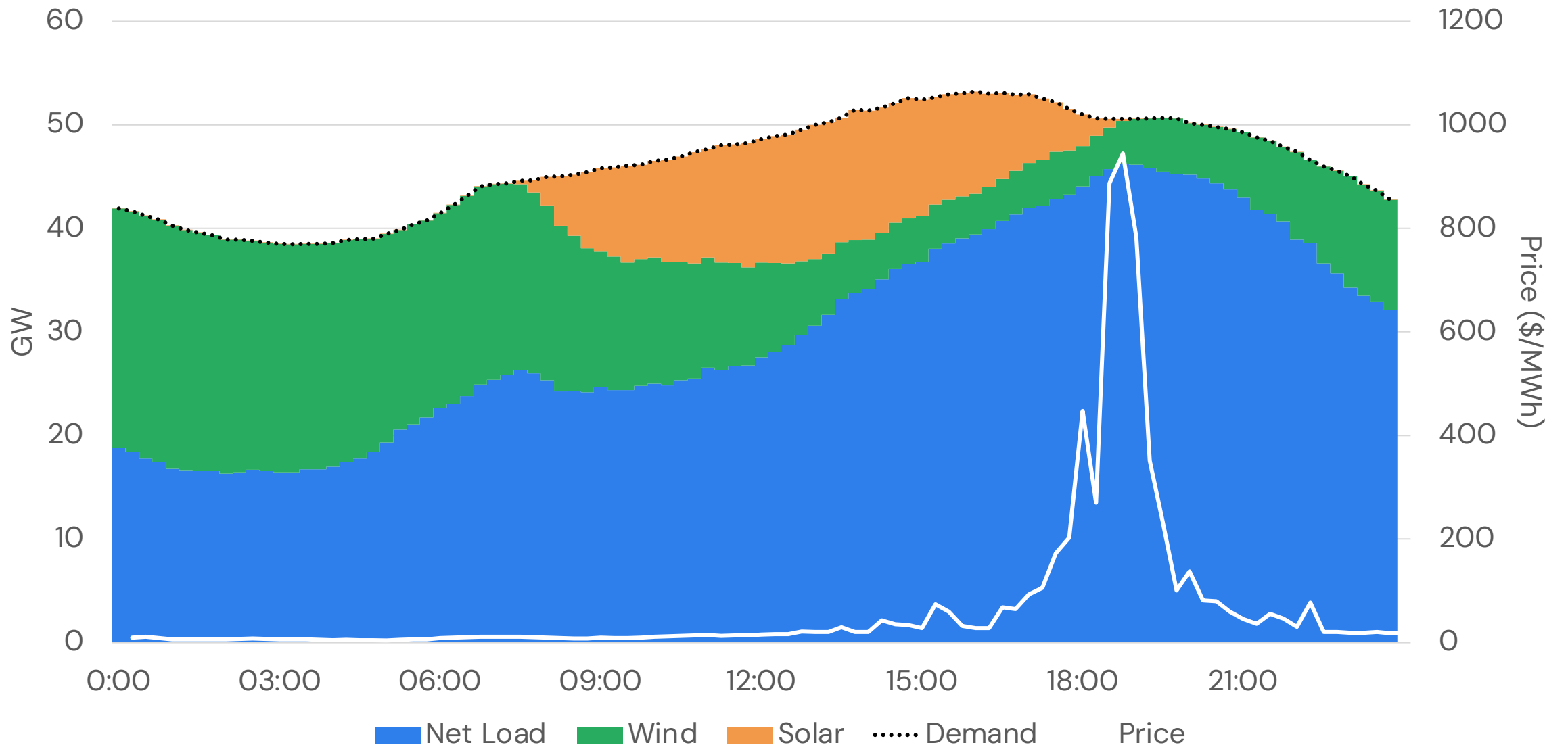
Now lets add wind and solar





What happens to price?





What does this mean for summer 2024?

	2022
Peak hourly load	80,038 MW
Peak hourly solar generation	10,039 MW
Max. 30-minute Net Load Ramp	5,874 MW
Battery energy storage revenues	\$147k/MW

	2022	2023
Peak hourly load	80,038 MW	85,464 MW
Peak hourly solar generation	10,039 MW	13,742 MW
Max. 30-minute Net Load Ramp	5,874 MW	7,867 MW
Battery energy storage revenues	\$147k/MW	\$196k/MW

	2022	2023	Change
Peak hourly load	80,038 MW	85,464 MW	+7%
Peak hourly solar generation	10,039 MW	13,742 MW	+49%
Max. 30-minute Net Load Ramp	5,874 MW	7,867 MW	+30%
Battery energy storage revenues	\$147k/MW	\$196k/MW	+33%

	2022	2023	Change	2024
Peak hourly load	80,038 MW	85,464 MW	+7%	88,500 MW
Peak hourly solar generation	10,039 MW	13,742 MW	+49%	24,200 MW
Max. 30-minute Net Load Ramp	5,874 MW	7,867 MW	+30%	10,000 MW
Battery energy storage revenues	\$147k/MW	\$196k/MW	+33%	?

	2022	2023	Change	2024	Change
Peak hourly load	80,038 MW	85,464 MW	+7%	88,500 MW	+4%
Peak hourly solar generation	10,039 MW	13,742 MW	+49%	24,200 MW	+76%
Max. 30-minute Net Load Ramp	5,874 MW	7,867 MW	+30%	10,000 MW	+31%
Battery energy storage revenues	\$147k/MW	\$196k/MW	+33%	?	?

6th Edition



Energy
Storage
USA

You're invited to the

MODO ENERGY

Official Afterparty!



Tuesday 19th March - 7:30pm 'til late

Open bar, good food, networking opportunities, prizes



1114 East Cesar Chavez (Austin, TX - 78724)

A historic compound in the heart of bustling East Austin



All you need is a wristband

Head over to the Modo Energy stall to claim your pass

