

Weekly Headlines

- Natural Gas Market
- EVs and Utilities
- Kentucky Power No Deal

POWER PRICING (\$/MWh)

Day-Ahead LMPs		Mon 4/17	Tue 4/18	Wed 4/19	Thu 4/20	Fri 4/21
PJM	On-Peak WESTERN HUB	\$31.21	\$34.57	\$31.38	\$46.10	\$46.47
	Off-Peak WESTERN HUB	\$21.36	\$25.12	\$26.89	\$25.36	\$26.46
	On-Peak N ILLINOIS HUB	\$20.24	\$27.41	\$21.69	\$25.74	\$22.83
	Off-Peak N ILLINOIS HUB	\$2.00	\$17.55	\$1.85	\$1.69	\$9.79
	On-Peak PPL	\$23.46	\$27.81	\$24.83	\$26.50	\$26.47
	Off-Peak PPL	\$17.29	\$19.79	\$22.83	\$23.04	\$21.76
	On-Peak PENELEC	\$28.41	\$34.52	\$31.50	\$40.87	\$37.92
	Off-Peak PENELEC	\$20.17	\$23.62	\$26.57	\$25.03	\$25.39
	On-Peak COMED	\$20.32	\$27.51	\$21.97	\$25.92	\$22.80
	Off-Peak COMED	\$1.91	\$17.57	\$1.80	\$1.56	\$9.60
MISO	On-Peak INDIANA HUB	\$42.99	\$45.13	\$41.49	\$45.33	\$37.59
	Off-Peak INDIANA HUB	\$27.44	\$41.23	\$32.72	\$26.16	\$26.18
	On-Peak MICHIGAN HUB	\$28.26	\$28.10	\$34.19	\$33.91	\$37.91
	Off-Peak MICHIGAN HUB	\$18.27	\$20.27	\$26.71	\$24.66	\$24.69
	On-Peak MINN HUB	\$33.40	\$25.52	\$26.33	\$31.45	\$19.31
	Off-Peak MINN HUB	\$21.21	\$25.09	\$15.92	\$20.84	\$14.31
ERCOT	On-Peak NORTH	\$3.01	\$6.79	\$5.12	\$52.48	\$52.49
	Off-Peak NORTH	-\$0.28	-\$3.15	-\$4.11	\$2.16	\$12.77
	On-Peak SOUTH	\$23.89	\$29.45	\$36.67	\$66.44	\$71.36
	Off-Peak SOUTH	\$12.05	\$15.20	\$18.77	\$21.13	\$19.23

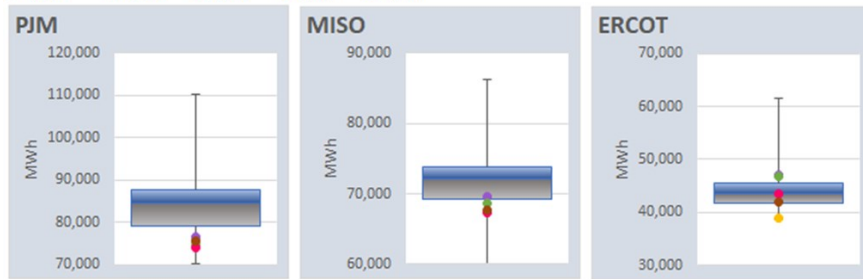
* Red signifies week over week price change down / Green signifies week over week price change up

Futures	Western Hub		Indiana Hub		North Hub	
	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak
	\$53.74	\$41.63	\$54.41	\$41.97	\$50.10	\$32.35

* Forward 12 month strip

DAILY RTO LOAD PROFILE (MWh)

● -4/17 ● -4/18 ● -4/19 ● -4/20 ● -4/21



* Current week daily load plotted with past 3 months daily load

COMMENTARY

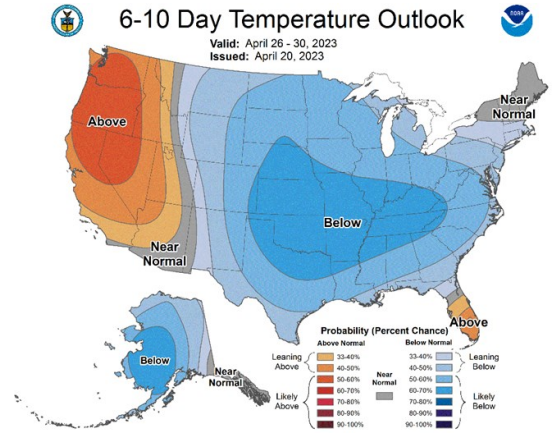
Natural gas tried to rise off the \$2 level earlier in the week as places in the country enjoying 80s last week were now experiencing snowstorms. Yesterday's EIA storage release quickly brought some reality back into the gas markets as storage levels were reported above forecasts. More importantly, storage levels are now well above last year's mark and the 5-year average. This isn't just a US story, EIA reported that Canada has similar metrics with plenty of gas in storage. The market has gone from trying to anticipate a demand pick-up, such as LNG exports to Europe later in the year, to now wanting to see those exports come to fruition. In other words, this has gone from a 'what could happen' market, to a 'show me' market and electricity prices will follow.

As the push to electrify while decarbonizing continues, utilities are going to face some challenges. While some of the goals might seem unattainable with current technology, it's clear that changes happening right now are already requiring new strategies. The current challenge is on the generation side where variable production is replacing baseload. Adoption of EVs is looking to be the biggest disruptor on the demand side as this has the potential to put some variability into load. Another issue is the question of how demand charges are recovered from a charging station with low utilization.

The on-again, off-again deal where Algonquin Power's Liberty Utilities would acquire AEP's Kentucky Power is very much off again. Algonquin said this week that the parties were terminating the deal that had been announced in 2021. Completing the acquisition was looking more and more like a long shot after FERC had sent the parties back to the table to draw up a more thorough picture of what rates might look like after the deal. More recently, the Kentucky Public Service Commission, amongst others, joined in and urged FERC to reject a revised application based on uncertainty around transmission rates. In the end, Algonquin pulled the plug.

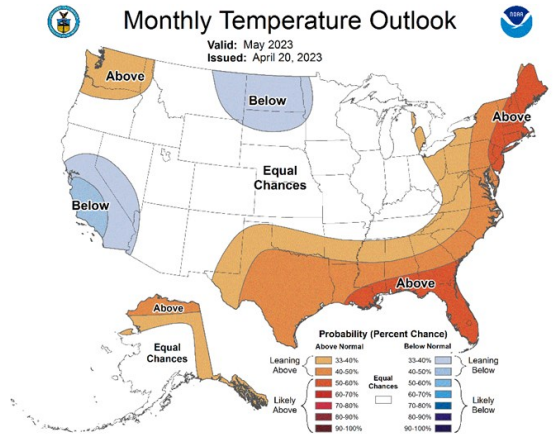
6-10 Day Temperature Outlook

Valid: April 26 - 30, 2023
Issued: April 20, 2023



Monthly Temperature Outlook

Valid: May 2023
Issued: April 20, 2023



COMMODITIES PRICING (\$/MMBtu)

Henry HUB Nat Gas	4/21/2023	\$2.21
WTI Crude Oil	4/21/2023	\$78.07

