

Weekly Headlines

- STEO EIA
- IEA vs OPEC
- Foreign Grid Reliability

POWER PRICING (\$/MWh)

Day-Ahead LMPs		Mon 9/11	Tue 9/12	Wed 9/13	Thu 9/14	Fri 9/15
PJM	On-Peak WESTERN HUB	\$47.74	\$45.36	\$39.66	\$32.21	\$33.04
	Off-Peak WESTERN HUB	\$21.19	\$20.55	\$23.44	\$20.82	\$19.99
	On-Peak N ILLINOIS HUB	\$38.94	\$33.30	\$30.86	\$24.90	\$27.60
	Off-Peak N ILLINOIS HUB	\$19.51	\$19.14	\$22.22	\$15.79	\$16.14
	On-Peak PPL	\$26.27	\$21.84	\$24.83	\$19.00	\$18.67
	Off-Peak PPL	\$16.81	\$14.12	\$19.77	\$14.74	\$13.84
	On-Peak PENELEC	\$37.08	\$34.60	\$34.53	\$25.51	\$27.56
	Off-Peak PENELEC	\$20.37	\$19.15	\$25.26	\$18.24	\$18.45
	On-Peak COMED	\$39.07	\$33.42	\$30.95	\$24.97	\$27.68
	Off-Peak COMED	\$19.56	\$19.18	\$22.27	\$15.86	\$16.21
MISO	On-Peak INDIANA HUB	\$35.62	\$33.04	\$33.77	\$31.16	\$33.45
	Off-Peak INDIANA HUB	\$23.43	\$23.90	\$21.30	\$20.58	\$21.17
	On-Peak MICHIGAN HUB	\$32.04	\$32.28	\$29.86	\$29.78	\$29.86
	Off-Peak MICHIGAN HUB	\$23.60	\$24.09	\$21.35	\$20.32	\$20.65
	On-Peak MINN HUB	\$30.79	\$30.43	\$28.12	\$26.75	\$28.72
	Off-Peak MINN HUB	\$21.79	\$22.05	\$19.03	\$13.89	\$15.31
	On-Peak LOUISIANA HUB	\$34.11	\$31.99	\$30.13	\$29.69	\$33.90
	Off-Peak LOUISIANA HUB	\$20.50	\$20.34	\$19.98	\$19.58	\$20.43
ERCOT	On-Peak NORTH	\$35.15	\$41.05	\$32.36	\$29.99	\$33.79
	Off-Peak NORTH	\$17.91	\$20.81	\$20.08	\$19.53	\$21.22
	On-Peak SOUTH	\$38.44	\$46.52	\$37.31	\$31.30	\$33.47
	Off-Peak SOUTH	\$19.10	\$22.06	\$23.31	\$22.28	\$23.19

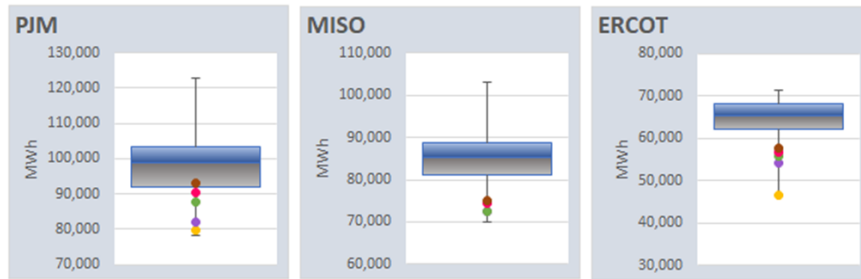
* Red signifies week over week price change down / Green signifies week over week price change up

Futures	Western Hub		Indiana Hub		North Hub	
	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak
	\$50.90	\$37.91	\$53.40	\$40.01	\$63.05	\$37.72

* Forward 12 month strip

DAILY RTO LOAD PROFILE (MWh)

● -9/11 ● -9/12 ● -9/13 ● -9/14 ● -9/15



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

COMMENTARY

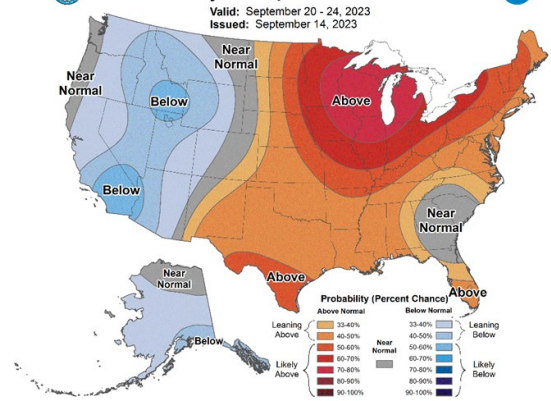
EIA put out its monthly Short-Term Energy Outlook. Of interest was the discussion about natural gas and power generation. In July, August, and now September, the US set records for gas consumption for electricity. The record usage has now pushed their forecast for 2023 consumption for electricity to 35.3 Bcf/d. That is a healthy 6% increase, or 2.1 Bcf/d from the previous record set last year.

This week an Op-Ed appearing in the Financial Times by the International Energy Agency (IEA) got a fair amount of attention. This is a preview of the annual World Energy Outlook that IEA will release next month. The article called for peak fossil fuels by 2030 which they characterize as a welcome sight so the world can shift to cleaner sources of energy. According to the editorial, the report will suggest that increased EV, solar panel production, and a slower China will be catalysts to lower demand for coal, gas, and oil.

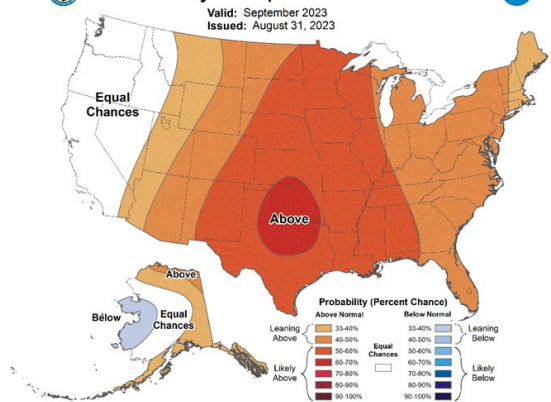
As expected, there were a fair number of skeptics to this, none bigger than The Organization of Petroleum Exporting Countries (OPEC). OPEC came out swinging calling the report ideologically driven, rather than fact-based. They called it an extremely risky and impractical narrative to dismiss fossil fuels and basically said 'we've heard this before'. OPEC Secretary General HE Haitham Al Ghais went even further stating, "such narratives only set the global energy system up to fail spectacularly. It would lead to energy chaos on a potentially unprecedented scale, with dire consequences for economies and billions of people across the world."

Meanwhile in Kazakhstan, the Atyrau Oil Refinery suspended partial operations in order to prevent an emergency because of low voltage on the power grid. The refinery is one of the biggest in the country. The reason this caught our eye is because of comments made by the country's energy minister in August. Because of power outage issues, the OPEC+ country was facing the possibilities of cutting its export volumes for 2023. While the exact number wasn't known, parsing some comments and simple math gets the number to 10-20 million barrels of oil. While that's a pretty slight number in the grand scheme of things, it is a reminder of how dependent these countries are on a less than robust electric infrastructure.

6-10 Day Temperature Outlook



Monthly Temperature Outlook



COMMODITIES PRICING (\$/MMBtu)

Henry HUB Nat Gas	9/15/2023	\$2.72
WTI Crude Oil	9/15/2023	\$89.94

