

Gas Market Edge

Gas Market Insight

21 July 2021

Summer gas prices sizzle on tight supply-demand balance

From IHS Markit North America Gas

Key implications:

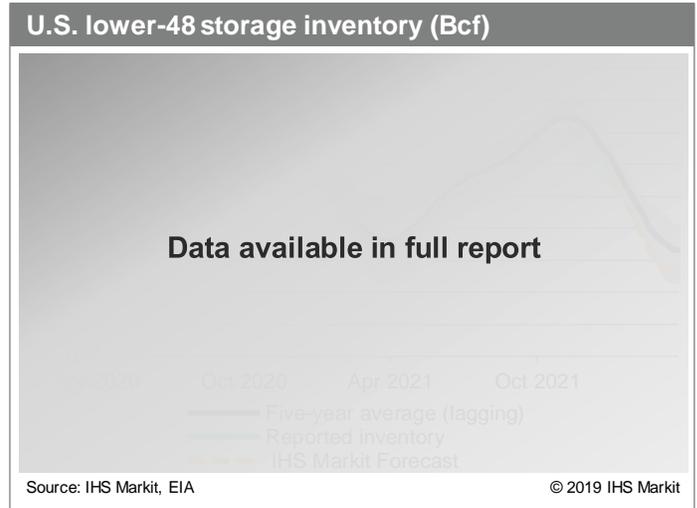
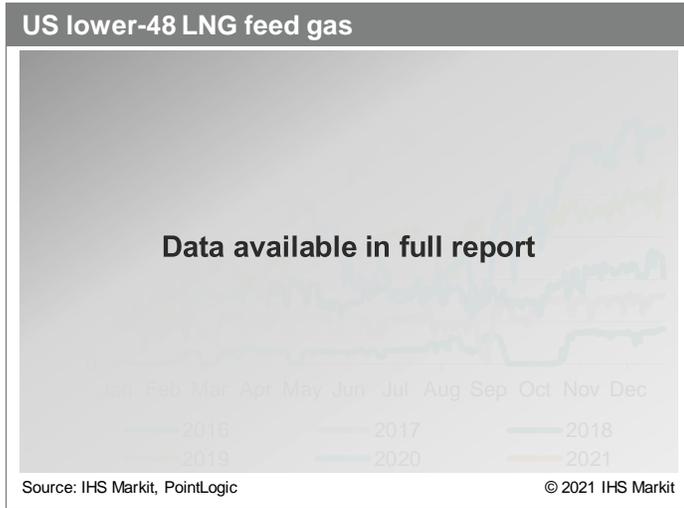
- North American gas market fundamentals support the strengthening of the winter 2021-22 NYMEX forward curve to \$3.78/MMBtu. **We expect tight supply-demand balances to persist through 2021 and into 2022.**
- High global gas prices have lifted demand for US LNG exports, impacting injections into domestic storage. At this point in the storage injection season, natural gas inventories remain 150 Bcf below the five-year average injection rate and 318 Bcf less than last year's rate.
- Coal market tightness – and resulting high coal prices – will limit the scope for additional gas-to-coal switching this summer, even if gas prices rise further. **We expect coal prices to remain elevated throughout this winter and into 2022 as utilities look to refill dwindling stockpiles.**

Contacts

Matthew Palmer, Director · Matthew.Palmer@ihsmarkit.com, +1 720 357 4252

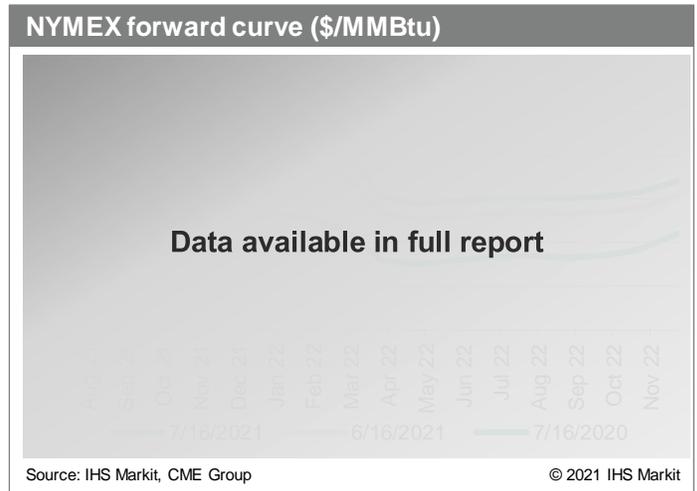
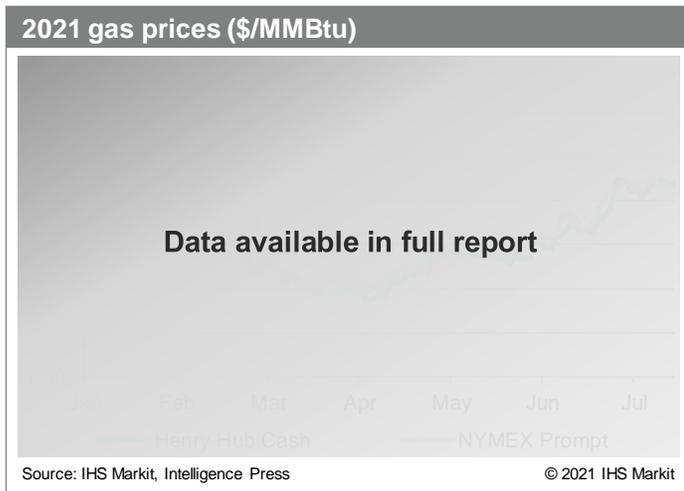
Inventories increasingly lag five-year average, pushing prices higher

The risk of significantly higher year-over-year gas prices in 2021 remains acute. Natural gas demand has recovered to pre-pandemic levels. LNG liquefaction trains are running near full utilization, and when coupled with lagging production from the capital-disciplined E&P community, storage inventories are falling further below the five-year average.



Global gas prices remain elevated as well, with the Japan-Korea-Marker trading in the \$13/MMBtu range. This in turn has supported strong US LNG exports, with feed gas in the 10 to 11 Bcf/d range thus far in July, more than 7 Bcf/d above year-ago levels.

With more gas going overseas, less is going in the ground ahead of the winter heating season. US lower-48 storage injections have lagged the five-year average since the beginning of the summer injection season, and as of July 9 were 189 Bcf below the five-year average and 543 Bcf below last year. We expect that by the time the injection season ends in October, inventories will be roughly 200 Bcf below the five-year average and 400 Bcf below last year.



Both Henry Hub cash and NYMEX prompt prices have risen by more than \$1/MMBtu since April, with prices increasingly reflecting winter supply concerns. The November 2021 to March 2022 average was \$3.78/MMBtu on 16 July, an increase of \$0.38/MMBtu in just one month and over \$1.00/MMBtu above last year. This concern is warranted, as we do not expect a significant increase in natural gas production over the balance of 2021 and LNG exports should remain near full

utilization. Any weather upside, in the form of either hotter-than-normal summer weather or earlier-than-normal cold in the autumn, would further reduce storage inventories.

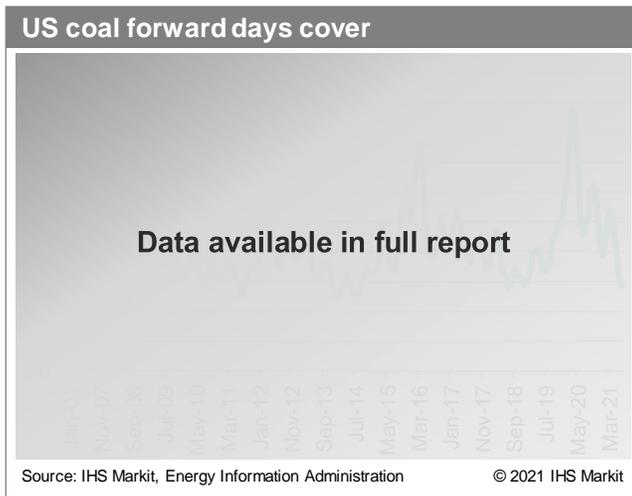
Tight coal market could limit power sector gas-to-coal switching

Substantial year-over-year increases in natural gas prices have reduced gas burn in the power sector and allowed coal to regain market share. Barring a few weather-related events, natural gas burn has remained below year-ago levels since the beginning of 2021, while coal burn has exceeded 2020 levels.

Increased coal burn has depleted utility stocks and forward cover is expected to drop below 60 days this month—a level not seen since 2018. Moreover, thermal coal exports are up 35% through June over the same period of 2020, and we expect elevated seaborne prices and exports near current levels through the second half of 2021.



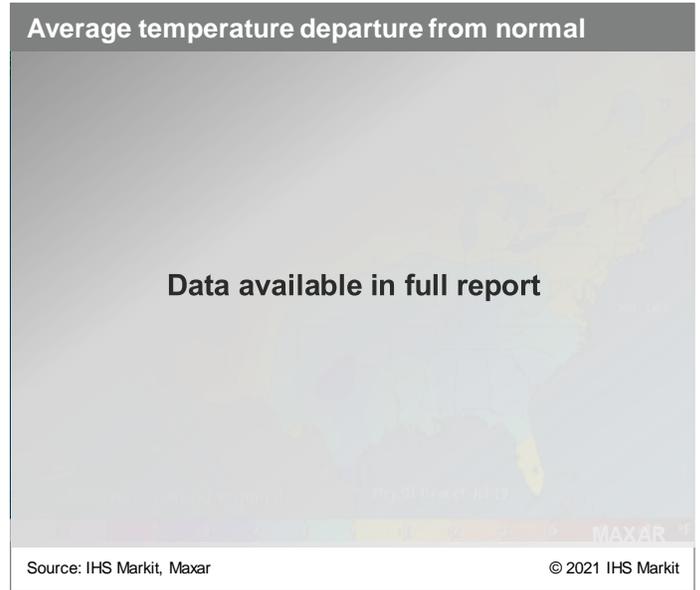
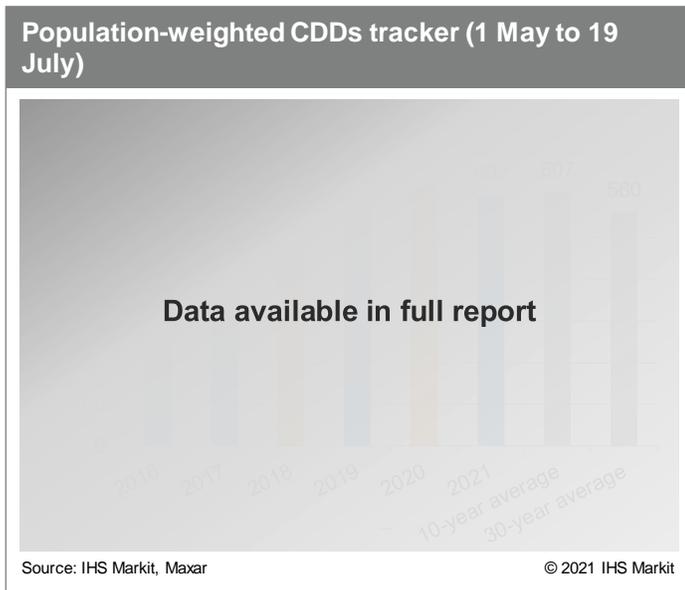
Output is not likely to rise to levels that mitigate supply tightness. US coal production rebounded from a pandemic low of 116 MMst in the second quarter of 2020 to 140 MMst in the first quarter of 2021, and we estimate second-quarter production will rise to 151 MMst. But any additional production growth this year will be incremental, where labor, equipment, and transportation are available. Coal producers are unlikely to make the long-term capital expenditures commitments required to increase output to satisfy a short-term rise in demand.



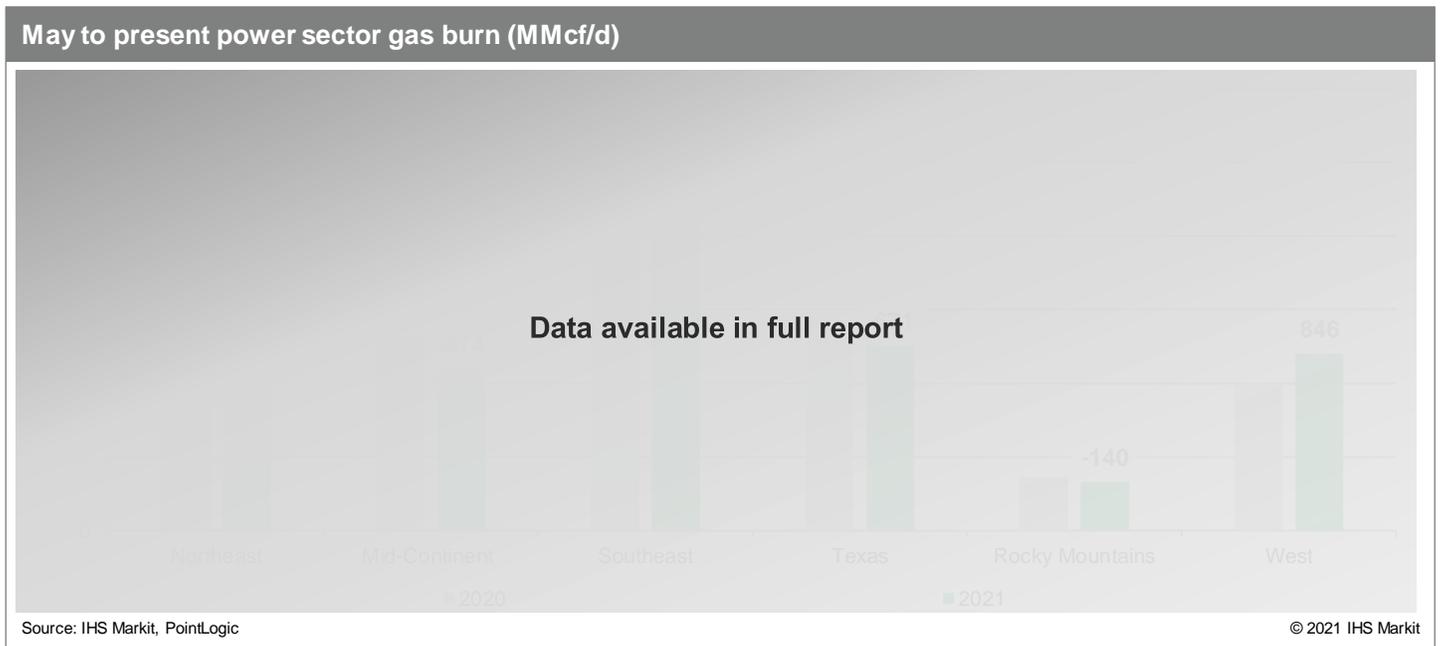
Market tightness will keep thermal coal prices elevated and support stronger gas burn in the power sector through the remainder of this year and into 2022. Limited production growth, steady export demand, and elevated utility consumption will eat away at electric utility coal stockpiles through 2022, forcing utilities to compete with the export market for limited spot market supply. Although stockpiles have not reached critically low levels, they are low enough to maintain upward pressure on prices, an effect that could intensify as they dwindle further through the summer and utilities look to restock in preparation for winter demand.

Not all weather is created equal

While much of the western half the continent has seen extreme heat this summer, the same cannot be said for the rest of the US lower 48. Texas, the Southeast, and the lower part of the Midwest have seen cooler-than-normal temperatures thus far during the summer. Population-weighted cooling degree days (CDDs) for the US lower 48 through July 19 were 1% below the 10-year average and 3% below last year.



Gas burn in the power sector summer-to-date has averaged 2 Bcf/d below last year, down in all regions except the West, owing to above-normal temperatures there. Though below 2020 levels, gas burn has been surprisingly robust given gas price levels, highlighting the degree to which coal market tightness, along with coal plant retirements over the past decade, are keeping gas generation in the mix.



Disclaimer

The information contained in this presentation is confidential. Any unauthorized use, disclosure, reproduction, or dissemination, in full or in part, in any media or by any means, without the prior written permission of IHS Markit Ltd. or any of its affiliates ("IHS Markit") is strictly prohibited. IHS Markit owns all IHS Markit logos and trade names contained in this presentation that are subject to license. Opinions, statements, estimates, and projections in this presentation (including other media) are solely those of the individual author(s) at the time of writing and do not necessarily reflect the opinions of IHS Markit. Neither IHS Markit nor the author(s) has any obligation to update this presentation in the event that any content, opinion, statement, estimate, or projection (collectively, "information") changes or subsequently becomes inaccurate. IHS Markit makes no warranty, expressed or implied, as to the accuracy, completeness, or timeliness of any information in this presentation, and shall not in any way be liable to any recipient for any inaccuracies or omissions. Without limiting the foregoing, IHS Markit shall have no liability whatsoever to any recipient, whether in contract, in tort (including negligence), under warranty, under statute or otherwise, in respect of any loss or damage suffered by any recipient as a result of or in connection with any information provided, or any course of action determined, by it or any third party, whether or not based on any information provided. The inclusion of a link to an external website by IHS Markit should not be understood to be an endorsement of that website or the site's owners (or their products/services). IHS Markit is not responsible for either the content or output of external websites. Copyright ©2021, IHS Markit™. All rights reserved and all intellectual property rights are retained by IHS Markit.

