

## **Key Insights**

- Artificial intelligence's growth has increased energy demand, boosting the credit quality of independent power producers.
- Most independent power producers can hedge their exposure to fluctuating power prices for the next three to five years.
- Short-term weather and long-term regulation risks could influence the credit quality and ratings of independent power producers.



**David Yatzeck, CFA**Associate Portfolio
Manager, High Yield

any people are familiar with the potential of artificial intelligence (AI) to enhance productivity across a range of industries and sectors. Although the secondary impacts of the rise of AI are sometimes less understood, they have significant implications. One is the need to service the growing AI infrastructure and meet the energy demands it's generating. This in turn has significant implications for the credit quality of corporate bonds issued by companies that supply this energy and infrastructure.

Using ChatGPT for an internet search uses about 2.9 watt hours (Wh) of electricity, far more than the 0.3 Wh required for a traditional Google search, according to the International Energy Agency. Recognizing this ongoing surge in power demand related to artificial intelligence, investors

have eagerly bid up shares of many utilities and independent power producers (IPPs). But looking under the hood at the financials of these companies, the boom in Al-related power demand is improving the credit quality of IPPs, in particular, and could even boost some into the investment-grade credit universe.

# Regulation impacts utilities and IPPs differently

Utilities buy power from the electrical grid—or generate power themselves—and sell it to their customers, which can be businesses or residences. Utilities are regulated, typically by state agencies, so the prices they charge their customers and their profit margins are constrained by their regulator. Most regulated utilities

...the boom in AI-related power demand is improving the credit quality of IPPs....

have investment-grade credit ratings. Because utilities typically issue a meaningful volume of debt, they are motivated to maintain investment-grade ratings to keep the cost of that debt low.

IPPs, on the other hand, generate electricity through a range of sources—including nuclear, renewables, and fossil fuels—and sell it to the operator of the electrical grid. Some IPPs have their own customers, in which case they direct the generated power to those customers and sell anything left over into the grid. IPPs are not regulated, so higher demand for power can translate directly to higher prices, more revenue, and wider margins. They generally have high yield credit ratings because of their volatile earnings and as a result of private equity firms' activity—that tends to involve adding leverage—in the industry.

U.S. electrical grids are regional. Each regional grid has a set of rules for interconnection that a new supplier must adhere to before it can connect to the grid. Because of lighter government regulation in Texas, it is generally easiest for IPPs to connect with the Electric Reliability Council of Texas (ERCOT) grid. Tighter regulations in the mid-Atlantic make the region's PJM grid the most difficult. As a result, most IPPs focus their operations on Texas and the Midwest.

## Hedging strategies and financial health of IPPs

Most IPPs can hedge their exposure to fluctuating power prices for the next three to five years by selling electricity forward contracts to essentially "lock in" their power sales at a particular price. This makes their future earnings quite predictable relative to industries that cannot hedge their product prices, but IPPs are still subject to some pricing risk and earnings variability.

IPPs are not regulated, so higher demand for power can translate directly to higher prices....

Growth in free cash flow (revenue minus operating expenses and capital expenditures) is essential in credit quality improvement. Demand-driven electricity price increases are driving free cash flow growth for IPPs. Decreasing or fluctuating power supply also

boosts IPP pricing control as fossil fuels are phased out and the major forms of renewable energy—wind and solar—only produce electricity when it's windy or sunny. While equity investors tend to focus on earnings, growth in earnings before interest, taxes, depreciation, and amortization (EBITDA) also matters for credit quality. IPPs are well positioned for EBITDA growth.

## Long- and short-term weather-related risks

Despite our outlook for healthy free cash flow and EBITDA growth in the IPP industry, we are also monitoring meaningful risks that could derail its credit quality improvement. One longer-term risk is that government regulators could mandate that new electricity supply come online from various sources, potentially in response to extreme weather events that result in power blackouts.

For example, in recent years, parts of Texas have experienced both flooding and severe winter weather that overtaxed the power grid's supply, driving some state lawmakers to discuss mandatory supply increases. Meaningful new power supply would tip the supply and demand balance back in favor of supply, pushing prices down for IPPs.

There is another, shorter-term weather-related risk: The timing of individual weather events and the scheduled delivery of power in a forward contract (selling forwards requires the seller to physically deliver electricity to the buyer at contract expiration) could coincide. This would force the IPPs that sold the forwards to purchase power at ultra-high market prices to deliver at expiration. This low-probability, high-impact scenario is a potential drawback of hedging with forward contracts.

#### Capitalizing on IPP credit improvement

Some IPPs have stated that they want to have investment-grade credit ratings by 2025. We think that most publicly owned IPPs will improve their financial situation sufficiently to follow through on this commitment. Some privately owned IPPs are likely to instead use their newfound fundamental strength to return cash to shareholders. We have moved to take advantage of this multiyear credit improvement theme and the relatively attractive yields available on the industry's bonds.

#### INVEST WITH CONFIDENCE™

T. Rowe Price identifies and actively invests in opportunities to help people thrive in an evolving world, bringing our dynamic perspective and meaningful partnership to clients so they can feel more confident.

#### Important Information

This material is being furnished for general informational and/or marketing purposes only. The material does not constitute or undertake to give advice of any nature, including fiduciary investment advice. Prospective investors are recommended to seek independent legal, financial and tax advice before making any investment decision. T. Rowe Price group of companies including T. Rowe Price Associates, Inc. and/or its affiliates receive revenue from T. Rowe Price investment products and services. Past performance is not a reliable indicator of future performance. The value of an investment and any income from it can go down as well as up. Investors may get back less than the amount invested.

The material does not constitute a distribution, an offer, an invitation, a personal or general recommendation or solicitation to sell or buy any securities in any jurisdiction or to conduct any particular investment activity. The material has not been reviewed by any regulatory authority in any jurisdiction.

Information and opinions presented have been obtained or derived from sources believed to be reliable and current; however, we cannot guarantee the sources' accuracy or completeness. There is no guarantee that any forecasts made will come to pass. The views contained herein are as of the date written and are subject to change without notice; these views may differ from those of other T. Rowe Price group companies and/or associates. Under no circumstances should the material, in whole or in part, be copied or redistributed without consent from T. Rowe Price.

The material is not intended for use by persons in jurisdictions which prohibit or restrict the distribution of the material and in certain countries the material is provided upon specific request. It is not intended for distribution to retail investors in any jurisdiction.

Australia—Issued by T. Rowe Price Australia Limited (ABN: 13 620 668 895 and AFSL: 503741), Level 28, Governor Phillip Tower, 1 Farrer Place, Sydney NSW 2000, Australia. For Wholesale Clients only.

Canada—Issued in Canada by T. Rowe Price (Canada), Inc. T. Rowe Price (Canada), Inc.'s investment management services are only available to Accredited Investors as defined under National Instrument 45-106. T. Rowe Price (Canada), Inc. enters into written delegation agreements with affiliates to provide investment management services.

**Colombia, Chile, Mexico, Perù, Uruguay**—This material is prepared by T. Rowe Price International Ltd - Warwick Court, 5 Paternoster Square, London, EC4M 7DX which is authorised and regulated by the UK Financial Conduct Authority - and issued and distributed by locally authorized distributors only. For professional investors only.

**DIFC**—Issued in the Dubai International Financial Centre by T. Rowe Price International Ltd which is regulated by the Dubai Financial Services Authority as a Representative Office. For Professional Clients only.

**EEA**—Unless indicated otherwise this material is issued and approved by T. Rowe Price (Luxembourg) Management S.à r.l. 35 Boulevard du Prince Henri L-1724 Luxembourg which is authorised and regulated by the Luxembourg Commission de Surveillance du Secteur Financier. For Professional Clients only.

Hong Kong—Issued by T. Rowe Price Hong Kong Limited, 6/F, Chater House, 8 Connaught Road Central, Hong Kong. T. Rowe Price Hong Kong Limited is licensed and regulated by the Securities & Futures Commission. For Professional Investors only.

**New Zealand**— Issued by T. Rowe Price Australia Limited (ABN: 13 620 668 895 and AFSL: 503741), Level 28, Governor Phillip Tower, 1 Farrer Place, Sydney NSW 2000, Australia. No Interests are offered to the public. Accordingly, the Interests may not, directly or indirectly, be offered, sold or delivered in New Zealand, nor may any offering document or advertisement in relation to any offer of the Interests be distributed in New Zealand, other than in circumstances where there is no contravention of the Financial Markets Conduct Act 2013.

**Singapore**—Issued by T. Rowe Price Singapore Private Ltd. (UEN: 201021137E), 501 Orchard Rd, #10-02 Wheelock Place, Singapore 238880. T. Rowe Price Singapore Private Ltd. is licensed and regulated by the Monetary Authority of Singapore. For Institutional and Accredited Investors only.

South Africa—Issued in South Africa by T. Rowe Price International Ltd (TRPIL), Warwick Court, 5 Paternoster Square, London EC4M 7DX, is an authorised financial services provider under the Financial Advisory and Intermediary Services Act, 2002 (Financial Services Provider (FSP) Licence Number 31935), authorised to provide "intermediary services" to South African Investors. TRPIL's Complaint Handling Procedures are available to clients upon request. The Financial Advisory and Intermediary Services Act Ombud in South Africa deals with complaints from clients against FSPs in relation to the specific services rendered by FSPs. The contact details are noted below: Telephone: +27 12 762 5000, Web: www.faisombud.co.za, Email: info@faisombud.co.za

Switzerland - Issued in Switzerland by T. Rowe Price (Switzerland) GmbH, Talstrasse 65, 6th Floor, 8001 Zurich, Switzerland. For Qualified Investors only.

**UK**—This material is issued and approved by T. Rowe Price International Ltd, Warwick Court, 5 Paternoster Square, London EC4M 7DX which is authorised and regulated by the UK Financial Conduct Authority. For Professional Clients only.

**USA**—Issued in the USA by T. Rowe Price Associates, Inc.,100 East Pratt Street, Baltimore, MD, 21202, which is regulated by the U.S. Securities and Exchange Commission. For Institutional Investors only.

© 2024 T. Rowe Price. All Rights Reserved. T. ROWE PRICE, INVEST WITH CONFIDENCE, and the Bighorn Sheep design are, collectively and/ or apart, trademarks of T. Rowe Price Group, Inc.