

POWERPERKS° PROGRAM

Earn dollars by reducing energy.

Take advantage of AEP Energy's complimentary program, PowerPerks[®] with our Fixed All-Inclusive Price Plan. This program allows your business to earn money for using less power during periods of high demand. Plus, you'll be doing your part to help our electric grid's reliability. Participation is voluntary and without penalty, which means you choose when to participate and take advantage of earning dollars for reducing energy.

HOW IT WORKS



| Program Features | Benefits | Eligibility |
|-----------------------------------|---|--|
| Exclusive to AEP Energy Customers | Complimentary Program | Available with Fixed All-inclusive Product ¹ |
| Runs June 1 - September 30 | Earn \$500 per Megawatt-hour of reduced energy | Interval meter required |
| Receive email notifications | No penalties if you cannot participate during and event | Subject to data verification testing |
| | Receive bill credit in December | |

1The program is subject to additional terms and conditions that should be read and understood in connection with any decision to participate. Please review carefully the PowerPerks® Terms and Conditions, which include important information on PowerPerks requirements, restrictions, and limitations, including limitations of liabilities and disclaimers of warranties. Please be aware that AEP Energy makes no guarantee as to the continuation or ongoing existence of PowerPerks or regarding the accuracy, timeliness, suitability, completeness, freedom from error, or value of PowerPerks or any PowerPerks information. Neither PowerPerks nor any information therein should be construed as advice, a recommendation, or a guarantee of future results, and actual results, pricing, and/or savings achieved by the customer may differ materially from expectations.

BOUNDLESS ENERGY

AEP Energy is an affiliate of AEP Ohio. AEP Energy is not soliciting on behalf of and is not an agent of AEP Ohio. AEP Ohio customers do not need to purchase any competitive retail electric service from AEP Energy to receive or to continue to receive non-competitive retail electric services from AEP Ohio.



COMPANY OVERVIEW

An AEP Company

Our Customers' Success Defines Our Success

AEP Energy is dedicated to improving your bottom line. We do so by understanding your business' needs and helping you develop a customized energy solution plan that gives you peace of mind. Let AEP Energy serve as your trusted energy advisor to help you understand the right choices for your business. You'll do so knowing you're working with a company of integrity and legacy, making AEP Energy a company with boundless energy choices.

Leading the Way in Energy Benefits and Services:

- **Energy Supply** leads the way in providing a full suite of electricity and natural gas products for business and residential customers, as well as renewable energy plans tailored to your energy needs.
- Energy Management, Solar and Renewables offers products nationwide to maximize savings and increase profitability.

AEP Energy is licensed and operating in the following states: Delaware, Illinois, Maryland, New Jersey, Pennsylvania, Ohio and Washington, D.C.



Facts at a Glance

American Electric Power (AEP)

| Founded | |
|-----------------|----------------|
| Total Customers | |
| Market Cap | \$42.0 billion |
| Revenue | \$16.2 billion |
| Assets | \$68.8 billion |

AEP Energy

| Founded | | | | | | | | | | | | | | | | | | 20 |)0 | 2 |
|-----------------|--|--|------|--|--|--|--|--|--|---|----|------------|----|----|---|---|---|-----|----|---|
| Total Customers | | | | | | | | | | r | 16 | e a | ır | ł١ | / | 4 | 3 | 0,0 | 00 | 0 |

AEP Energy is a wholly owned subsidiary of AEP, one of the largest electric utilities in the United States, and ranked 185 on the Fortune 500.

See AEP.com/investors for more information

AEP Energy Supply Organization

AEP Energy Partners

Procures and sells wholesale energy in deregulated markets.

AEP Generation Resources

Owns and operates power generating facilities producing approximately 2,114 MW per year.

AEP Energy

Competitive retail energy supplier serving nearly 430,000 commercial, industrial, public sector and residential customers in 27 utility service territories across six states and D.C.

AEP OnSite Partners

Provides behind-the-meter services and solutions by assisting customers in reducing energy costs and risks.

AEP Renewables

Develops, owns and operates large scale wind and solar energy generating facilities.

BOUNDLESS ENERGY

AEP Energy is a competitive retail electric generation and natural gas service supplier and an affiliate of Ohio Power Company (AEP Ohio). AEP Energy is not soliciting on behalf of, endorsed by, acting on behalf of, and is not an agent of AEP Ohio, your electric distribution company, any governmental body, or consumer group. Electricity is the product of a mix of generation energy sources that is delivered over a system of wires. Customers do not need to purchase electric generation supply from AEP Energy in order to continue to receive regulated service from their utility. Switching to AEP Energy is not mandatory and you have the option of remaining with your local distribution company for basic generation service. AEP Energy's Maryland license is IR-757.



September 3, 2019

Recent Developments in Today's Market

Bullish – Bearish statement provided by AEP Energy Trading

Markets were closed on Monday, September 2 in observance of the Labor Day holiday. As markets opened on Tuesday, power and natural gas prices strengthened as weather models gained demand over the holiday weekend. October 2019 Henry Hub natural gas is up \$0.061/MMBtu to \$2.346/MMBtu and peak power at AEP - Dayton Hub is up \$0.25/MWh to \$29.25/MWh for the same term.

Power markets were slightly higher on Friday, August 30, ahead of the long holiday weekend. Overall on the week of August 26, October through December 2019 natural gas at Henry Hub gained \$0.110/MMBtu to \$2.365/MMBtu while peak power at AEP - Dayton Hub advanced \$0.23/MWh to \$30.24/MWh for the same term.



Natural Gas Weekly Update

Week Ending: August 28, 2019 Release Date: August 29, 2019

• Prices fall at most locations amid mixed

temperatures. This report week (Wednesday, August 21 to Wednesday, August 28), Henry Hub spot prices traded within a narrow range and fell 1¢ from \$2.25/MMBtu last Wednesday to \$2.24/MMBtu yesterday.

• Tennessee Zone 4 Marcellus spot prices decreased 6¢ from \$1.72/MMBtu last Wednesday to \$1.66/MMBtu yesterday. Prices at Dominion South in southwest Pennsylvania fell 6¢ from \$1.80/MMBtu last Wednesday to \$1.74/MMBtu yesterday.

• Permian Basin prices strengthen throughout the week. Prices at the Waha Hub in West Texas, which is located near Permian Basin production activities, averaged \$0.97/MMBtu last Wednesday, \$1.28/MMBtu lower than Henry Hub prices.

• Net injections into storage totaled 60 Bcf for the week ending August 23, compared with the fiveyear (2014–18) average net injections of 57 Bcf and last year's net injections of 66 Bcf during the same week. Working gas stocks totaled 2,857 Bcf, which is 100 Bcf lower than the five-year average and 363 Bcf more than last year at this time.

• The average rate of net injections into storage is 30% higher than the five-year average so far in the refill season (April through October).

Source: EIA https://www.eia.gov/naturalgas/weekly/



September 3, 2019

MISO/PJM Hourly Day-Ahead, Locational Marginal Pricing (LMP)



MISO/PJM Monthly Historical On-Peak LMP



Source: misoenergy.org and pjm.com

*Graph is for illustrative purposes only



September 3, 2019

NYMEX Natural Gas vs. Energy Prices



Natural Gas Storage





September 3, 2019

AEP - DAYTON Hub Around-the-Clock (ATC)



*Graph is for illustrative purposes only

AEP - DAYTON Hub On-Peak



*Graph is for illustrative purposes only



September 3, 2019

Weather



Source: AEP Internal Meteorologist

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UNDERSTANDING TRANSMISSION COSTS

Transmission is one of the many electric service components affecting energy prices for consumers. It is important to understand how this will affect your company's energy budget. As your trusted energy advisor, AEP Energy can help you calculate how these changes will impact your company and assist in the determination of which energy product best meets your needs. For example, the transmission rate¹ in the New Jersey based Public Service Enterprise Group (PSEG), consumers incurred an increase in 2017 of 21%; 2018 an increase of 8%; and 2019 an increase of 4%. Consumers felt the effect in the Pennsylvania based Pennsylvania Power Company (Penn Power) and Metropolitan Edison (Met-Ed) as rates increased by 15% in 2019. Using this knowledge, AEP Energy can assist in developing a long-term energy strategy for your business.

What Factors Define Transmission?

Transmission is a cost derived from the delivery of energy from generators to consumers in a utility service area. Transmission costs fluctuate by utility and are determined by your Network Service Peak Load (NSPL) and transmission rate (NITS).

Network Service Peak Load (NSPL) is unique to each customer and is determined by your energy demand level at your local utility's transmission network peak. This information can be obtained by your AEP Energy Sales Representative. Network Integrated Transmission Service (NITS) is based on the Federal Energy Regulatory Commission's (FERC) formula filing taking account for all dollars spent on transmission projects and maintenance. The NITS value and effective date are specific to your respective utility.

PJM is a regional transmission organization (RTO) that coordinates the movement of wholesale electricity in all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and the District of Columbia.

PJM NETWORK INTEGRATION TRANSMISSION SERVICE

| | | NI | | |
|--|--|--|---|-------------|
| STATES | LOCAL UTILITIES | Previous PJM NITS Posting \$/MW-Year Rate | Current PJM NITS Posting \$/MW-Year Rate | % OF CHANGE |
| | | | | |
| Delaware | Delmarva Power & Light ³ | \$32,938 | \$42,812 | 29.98% |
| District of Columbia | Potomac Electric Power Company (PEPCO) ³ | \$31,304 | \$31,167 | -0.44% |
| Illinois | Commonwealth Edison (ComEd) ³ | \$34,392 | \$34,516 | 0.36% |
| | Baltimore Gas & Electric (BG&E) ³ | \$32,851 | \$35,762 | 8.86% |
| Monuloud | Delmarva Power & Light ³ | \$32,938 | \$42,812 | 29.98% |
| iviar y la liu | Potomac Electric Power Company (PEPCO) ³ | \$31,304 | \$31,167 | -0.44% |
| | Potomac Edison ¹ | \$17,895 | \$17,895 | 0.00% |
| | Atlantic City Electric (ACE) ³ | \$50,960 | \$53,775 | 5.52% |
| New Jersey Jersey Central Power & Light (JCP&L) ¹ | | \$23,597 | \$22,588 | -4.28% |
| | Public Service Enterprise Group (PSEG) ² | \$130,535 | \$135,167 | 3.55% |
| | Duquesne Light ³ | \$47,892 | \$51,954 | 8.48% |
| | Metropolitan Edison (Met-Ed) ¹ | \$25,132 | \$28,796 | 14.58% |
| | Pennsylvania Electric Company (Penelec) ¹ | \$25,132 | \$28,796 | 14.58% |
| Pennsylvania | Pennsylvania Power Company (Penn Power) ² | \$54,689 | \$55,205 | 0.94% |
| | Pennsylvania Power & Light (PPL) ³ | \$61,792 | \$58,865 | -4.74% |
| | Philadelphia Electric Company (PECO) ¹ | \$19,587 | \$19,093 | -2.52% |
| | West Penn Power ¹ | \$17,895 | \$17,895 | 0.00% |

CALCULATING YOUR TRANSMISSION COST



¹FERC Action; ²Effective Calendar Year (i.e. 1/1/2019 - 12/31/2020); ³Effective Energy Year (i.e. 6/1/2018 - 5/31/2019)



Index Flex (Variable¹) Plan

The Index Flex (Layered Block) Plan provides customers the flexibility to hedge their energy requirements through multiple block transactions at the customer's discretion. Each block transaction may cover periods ranging from one calendar month to multiple calendar months; choose between On-Peak, Off-Peak and Around-The-Clock hours; also select between constant firm or pass-through components. Each block will be priced and transacted separately.



What Does it Include?

| Component ¹ | Price |
|---------------------------|--------------------------|
| Energy Supply | Firm/Variable |
| Capacity | Pass-Through or Constant |
| Transmission ² | Pass-Through or Constant |
| Ancillaries | Pass-Through or Constant |
| Losses | Pass-Through or Constant |
| RPS ³ | Firm |

¹<u>For Ohio Only</u> – Pursuant to the Public Utilities Commission of Ohio ("PUCO" or "Commission") Case No. 14-568-EL-COI and Commission guidelines, the product herein is being defined as "Variable". AEP Energy's component charges are represented above with the Index Flex Plan. The components represent AEP Energy's charges in general; such components may change in relation to changes to the utilities and ISO/RTO's tariff and rider changes, state public utilities commission laws or regulations or customer's usage, among others. Applicable taxes will be applied per state law. Distribution charges are billed by the local utility and are excluded from AEP Energy's cost components. ²Ohio service areas will continue to charge for transmission separately. ³Renewable Portfolio Standard (RPS) is a state regulation that requires a specified percentage of renewable energy to be generated.

Product Benefits

- AEP Energy's Index Flex Plan sets Energy and Renewable Portfolio Standard during the agreement period regardless of energy market fluctuations. However, your monthly bill may vary depending on how much electricity you use.
- Purchase On Peak and / or Off Peak blocks up to 75% of annual load
- Ideal for customers with annual usage of 10,000MWh or greater
- Aggregate blocks amongst accounts within Local Distribution Company
- Lock hedged blocks when energy prices support your budget
- Secure a position against potentially rising energy market prices
- Limit regulatory pass-through events when choosing to pass-through non-energy components
- Passing through non-energy components allow you to keep 100% of the savings from Peak Load Management and Energy Efficiency projects

This graph is for illustrative purposes only.

Product Features

- Components constant during contract, hedged energy blocks and Renewable Portfolio Standard
- A customer will pay variable energy price based on remaining MWhs outside of hedged block
- Blocks purchased must be ≥ 100kW
- Cheaper hedged block energy prices versus paying for 100% load following premiums
- Flexible term lengths
- Statement details provided to customers' choosing electronic billing
- · Interval (Hourly) meters required
- · Dual or single consolidated billing offered

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ACT NOW.