



DOE Reveals 10-Gigawatt Gas-Powered Ohio Data Centre Plan

Description

The U.S. Department of Energy announced a new partnership on Friday to build a major data centre in Piketon, Ohio. This project is part of the push for artificial intelligence technology development.

The site, once a uranium enrichment plant, is now called the "PORTS Technology Campus." It will house a data centre capable of handling 10 gigawatts of data, along with new power generation facilities, including 9.2 gigawatts from natural gas.

Earlier in March, President Donald Trump invited technology companies to the White House, urging them to create their own power sources at their data-intensive sites. The Piketon project aims to connect power generation both on-site and to the wider power grid, requiring significant upgrades to power transmission infrastructure.

Energy Secretary Chris Wright and other officials visited the site to discuss the plan. They confirmed that SoftBank Group, through its SB Energy branch, will partner with AEP Ohio. They plan to invest \$4.2 billion in updating the power grid without increasing costs for customers.

While the project promises job creation and energy improvements, there is local opposition. A group of Ohio residents has filed a petition to restrict mega data centres due to concerns about environmental and social impacts. Construction of the new data centre is expected to start this year, creating thousands of jobs and supporting research in various fields.

Vocabulary List:

1. **partnership** //ˈpɑːtnəʃɪp// (noun): two or more groups working together on something
2. **gigawatt** //ˈɡɪɡəˌwɑːt// (noun): one billion watts of electric power
3. **infrastructure** //ˈɪnfəˌstrʌktʃə// (noun): basic systems and services needed for a society
4. **transmission** //trænsˈmɪʃən// (noun): movement of electricity over wires to other places
5. **petition** //pəˈtɪʃən// (noun): a written request asking leaders to change something
6. **enrichment** //enˈrɪtʃmənt// (noun): making something more pure or more concentrated

Comprehension Questions



Multiple Choice

1. What is the location of the new data centre announced by the U.S. Department of Energy?
 - Option: Piketon, Ohio
 - Option: Columbus, Ohio
 - Option: Cleveland, Ohio
 - Option: Dayton, Ohio

2. What was the site of the new data centre originally used for?
 - Option: Coal mining
 - Option: Uranium enrichment
 - Option: Power generation
 - Option: Natural gas extraction

3. How much power can the new data centre handle?
 - Option: 5 gigawatts
 - Option: 10 gigawatts
 - Option: 15 gigawatts
 - Option: 20 gigawatts

4. Who invited technology companies to the White House in March?
 - Option: Joe Biden
 - Option: Barack Obama
 - Option: Donald Trump
 - Option: George W. Bush

5. What is the investment amount planned for updating the power grid?
 - Option: \$2 billion
 - Option: \$3 billion
 - Option: \$4.2 billion
 - Option: \$5 billion

6. Which company is partnering with AEP Ohio for the Piketon project?
 - Option: Google
 - Option: Amazon
 - Option: SoftBank Group
 - Option: Microsoft



True-False

7. The Piketon project aims to create connections to the wider power grid.
8. The new data centre is expected to handle 5 gigawatts of data.
9. Energy Secretary Chris Wright visited the site to discuss the plan.
10. Local residents fully support the construction of the new data centre.
11. The construction of the new data centre is expected to start next year.
12. SoftBank Group's investment will increase costs for customers.

Gap-Fill

13. The new data centre is part of a push for artificial intelligence technology _____.
14. Construction of the data centre is expected to start this _____.
15. The data centre will include new power generation facilities, including _____ from natural gas.
16. A group of Ohio residents filed a petition to restrict mega data _____.
17. Energy Secretary Chris Wright visited the _____ to discuss the plan.
18. The power grid upgrades aim to do so without increasing _____ for customers.

Answer

Multiple Choice: 1. Piketon, Ohio 2. Uranium enrichment 3. 10 gigawatts 4. Donald Trump 5. \$4.2 billion
6. SoftBank Group

True-False: 7. True 8. False 9. True 10. False 11. False 12. False

Gap-Fill: 13. development 14. year 15. 9.2 gigawatts 16. centres 17. site 18. costs



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What type of agreement is typically formed between two or more parties to work together?
Option: Sole proprietorship
Option: Partnership
Option: Corporation
Option: Contract
2. How much power does a gigawatt represent?
Option: 1 million watts
Option: 1 billion watts
Option: 1 trillion watts
Option: 100 megawatts
3. Which term refers to the fundamental facilities and systems serving a country or city?
Option: Ecosystem
Option: Infrastructure
Option: Architecture
Option: SCADA
4. What is the process of sending energy from one location to another called?
Option: Transmission
Option: Generation
Option: Distribution
Option: Conversion
5. What document is submitted formally to a governing body to request action?
Option: Proposal
Option: Petition
Option: Brief
Option: Mandate
6. What process involves enhancing the quality or value of something?
Option: Diminution
Option: Enrichment
Option: Extraction
Option: Reduction
7. What term describes a situation where there is a deficiency or lack of something needed?



- Option: Surplus
- Option: Shortfall
- Option: Excess
- Option: Balance

8. What do you call formal suggestions put forward for consideration or discussion?

- Option: Proposals
- Option: Contracts
- Option: Offers
- Option: Agreements

9. What action means to delay or defer an event to a later time?

- Option: Advance
- Option: Postpone
- Option: Proceed
- Option: Continue

10. What term refers to an estimate or forecast of future events or trends?

- Option: Reflected
- Option: Projected
- Option: Retrospective
- Option: Calculated

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Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The increase in train ridership is attributed to better services and _____ .

12. There are multiple scenarios being considered for the upcoming project, including best-case and _____ .

13. The company received an unsolicited proposal that they were not expecting or _____ .

14. Customers can scan the QR code to access additional information and _____ .

15. The brushing scam involves sellers sending products to random addresses to create a false sense of _____ .



16. The courier service is responsible for the delivery of many parcels throughout the _____.
17. The traffic was redirected to avoid the _____ caused by the construction.
18. The system requires two-factor authentication for enhanced _____.
19. Many companies prefer to automate repetitive tasks to save time and _____.
20. The city has implemented programs to reduce unemployment and assist job _____.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The technology sector has seen significant growth in recent years.
22. Innovative technologies can disrupt traditional business models.
23. Theoretically, the project should yield significant benefits if executed correctly.
24. Entry-level positions are often the starting point for many careers.
25. The airport is currently conducting maintenance on its runways and terminals.
26. During peak travel seasons, flights tend to be more expensive.
27. The company's operations are designed to maximize efficiency and minimize waste.
28. Weather conditions are often the cause of delays in air travel.
29. The airline issued many cancellations due to unforeseen circumstances.
30. Passengers must check the gates for their boarding information before departure.

Answer

Multiple Choice: 1. Partnership 2. 1 billion watts 3. Infrastructure 4. Transmission 5. Petition 6. Enrichment 7. Shortfall 8. Proposals 9. Postpone 10. Projected

Gap-Fill: 11. infrastructure 12. worst-case 13. requesting 14. promotions 15. sales 16. week 17. delays 18. security 19. resources 20. seekers

Matching sentence: 1. sector 2. disrupt 3. theoretically 4. entry-level 5. airport 6. flights 7. operations 8. delays



9. cancellations 10. gates

CATEGORY

1. Business - LEVEL3

POST TAG

1. 10-gigawatt
2. B1
3. data center
4. ESL learning
5. esl news
6. gas-powered
7. Level 3
8. Ohio

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Date Created

2026/03/21

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