Iron Mountain
Data Centers

Tuesday, March 16th, 2021

Iron Mountain Data Centers BBC Partnership

- Joined Better Buildings Challenge in 2016

- Commitment: 583,000 square feet

- Progress: goal achieved in 2019, surpassing 20% energy savings

- Goal: Set a new goal to save an additional 30% by 2025 from a 2019 baseline

Iron Mountain Data Centers Efficiency Progress

- Achieved 40% total improvement in 2019
- Enterprise efficiency measures include:
  - Achieved ISO 50001 Energy Management and ISO 14001 Environmental Management certifications.
  - Powered by 100% renewable energy.
  - Joined Better Buildings Waste Pilot to increase landfill diversion.
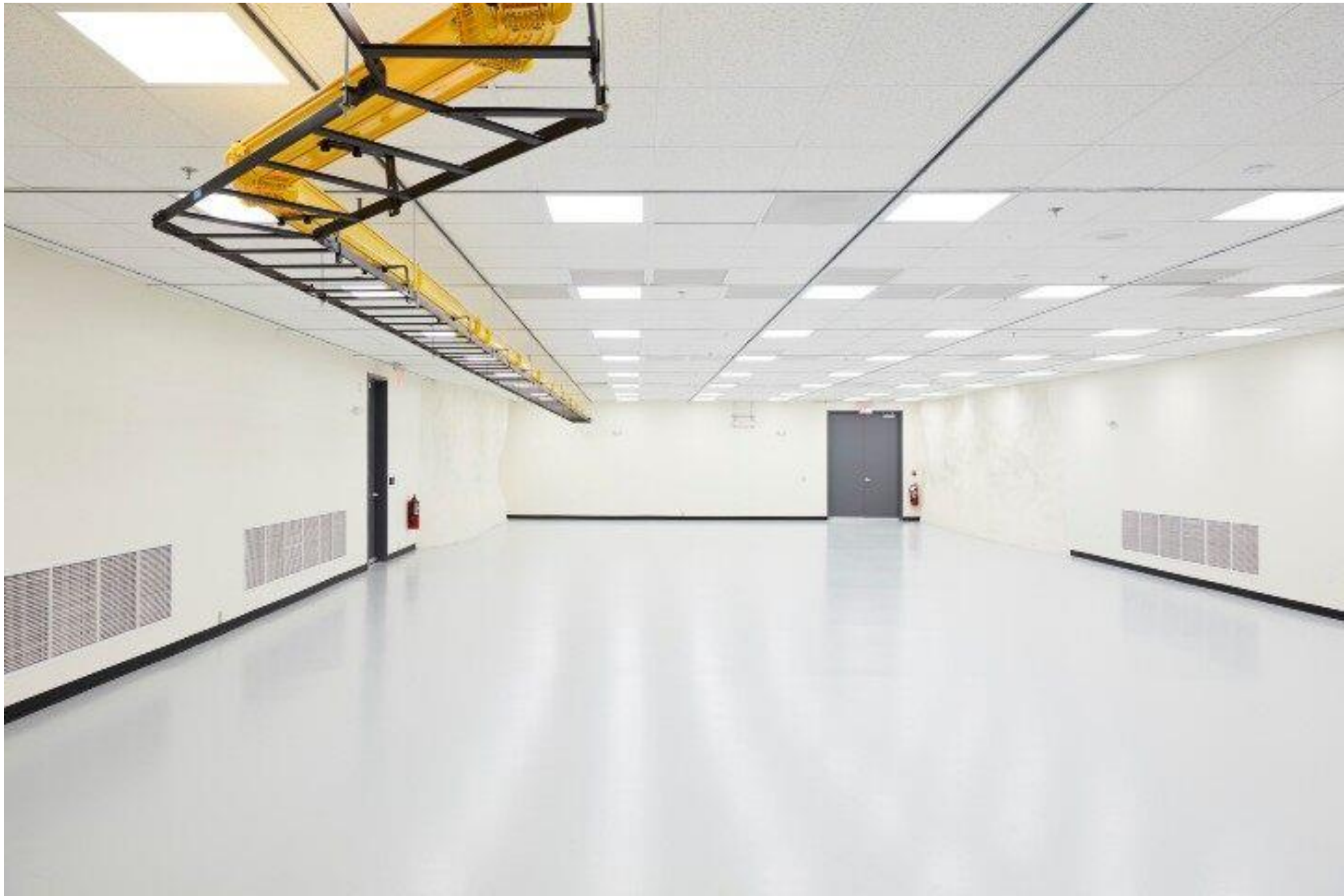

VA-1 Data Center

Kansas City Energy Improvements

- Fine-tuned building system fan speeds to carefully raise facility temperatures without compromising storage safety.

- Utilized industry best-practice air management solutions and LED lighting throughout the data center.

- A 3% improvement in PUE since baseline year.

Kansas City Data Center Servers

22-acre facility underground

Facility that's 110-feet below the surface is ideal for disaster recovery

Virginia Energy Improvements

- Used AI software to assess building control systems, examining all possible ways to save energy.

- Improved air management by utilizing blanking panels, cold/hot aisle containment, floor blanking, and perforated tile air direction.

- A 20% improvement in PUE since baseline

Highly-secured facility

VA-1 Data Center Co-location Space

VA-1 Data Center has low PUE of 1.2-1.3

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Western PA Energy Improvements

- [Showcase project](#) published in 2020
- Utilized geothermal energy at the data center located inside a former limestone mine
- Used a myriad of air management solutions (such as hot/cold aisle containment), and working with customers on in-rack best practices, in order to drastically improve energy efficiency
- A 34% in PUE improvement since baseline

24/7 global monitoring

333,000 sq. ft. and 40 MW of total capacity

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200-acre underground campus

Server Room at Boyers Data Center

Underground Cave at Boyers Data Center
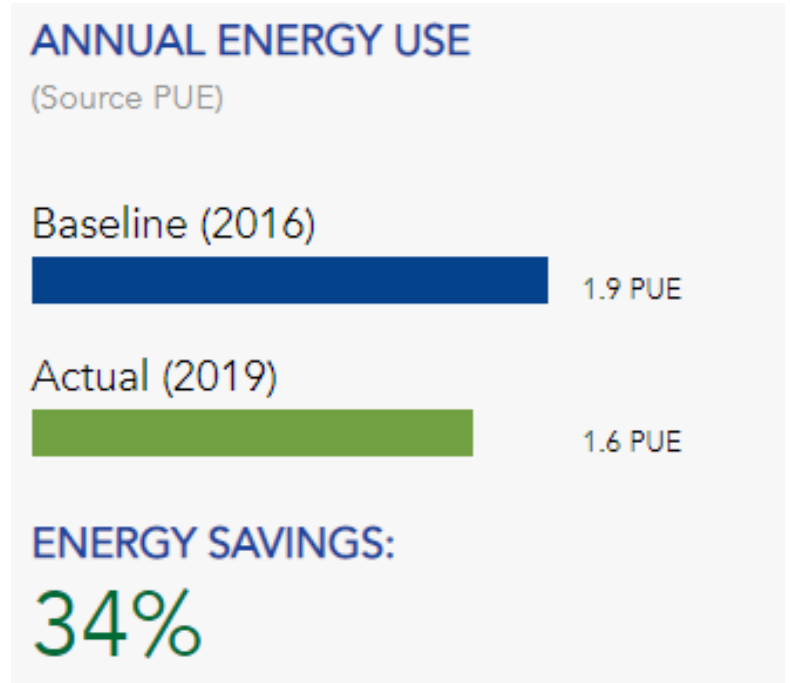
Energy Achievements in Western PA

- Results:
  - 34% annual improvement
- Other Benefits:
  - Backup thermal storage for reliability.
  - Unlimited run time of cool water and redundant pumps to maintain cooling.
  - Simple variable flow pump design with very few moving parts provides increased reliability and lower maintenance costs.

ANNUAL ENERGY USE
(Source PUE)

Baseline (2016)
1.9 PUE

Actual (2019)
1.6 PUE

ENERGY SAVINGS:
34%

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