**#1**

**COMPLETE**

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PAGE 1: Welcome

**Q1: Name**

First name, last name initial

John C

PAGE 2: Which of the following do you do in your position?

**Q5: [If more than one data center] For how many**

**data centers are you involved in major equipment purchase and maintenance decisions?**

*Respondent skipped this*

*question*

|  |  |
| --- | --- |
| **Q2: Do you participate in decisions about purchasing equipment for your data center (e.g., servers, software, racks, lighting, cooling equipment)?** | Yes |
| **Q3: Do you participate in decisions about servicing or maintaining equipment for your data center?** | No |
| **Q4: How many data centers, server rooms, and server closets does your company own or operate?** | *Respondent skipped this question* |

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**Q6: The majority of the data centers you help**

**manage are:**

Mega or utility-scale data centers (>10,000 square

feet)

**Q7: What is the average number of racks in your**

**typical data center?**

*Respondent skipped this*

*question*

**Q8: How many servers are there in your**

**organization as a whole?**

*Respondent skipped this*

*question*

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**Q10: Which sectors does your data center support?**

**(Name no more than three)**

Energy and utilities,

Banking and financial services,

Co-location/shared

**Q9: What type of data centers does your company**

**operate?**

*Respondent skipped this*

*question*

**Q11: What state(s) are your data centers located in?**

All over US

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**Q16: Have you had an energy audit performed by a**

**third party within the last three years?**

Yes

|  |  |
| --- | --- |
| **Q12: When did you last pursue a major equipment purchase/upgrade for your data center?** | Within the last 3 years |
| **Q13: How often do you replace servers in your data centers?** | 3 to 5 years |
| **Q14: How often do you make major infrastructure upgrades to your data centers?** | When projects payback are 3 years or less |
| **Q15: Do you actively participate in the EnergySTAR Buildings, Green Grid, or another third-party energy- efficiency program?** | Yes |

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|  |  |
| --- | --- |
| **Q17: Do you track energy use on a regular basis?** | Yes |
| **Q18: If YES, what is the typical electricity consumption (kwh) of one of your data centers?** | 1 to 5 MWh |
| **Q19: Do you track power usage effectiveness (PUE) or any other efficiency measures?** | Yes |
| **Q20: If YES, what is the average PUE of your data centers?** | 1.3 |
| **Q21: Do you track server utilization?** | Yes |

**Q22: If YES, what is the average server utilization**

**rate of your data centers?**

30 to 50%

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**Q23: Do you rent data center space from another**

**company?**

Yes

**Q24: If YES, what percentage of your data center**

**needs are met by renting space from others?**

*Respondent skipped this*

*question*

**Q25: Do you lease or outsource from another company any of the following elements of your data**

**centers?**

Servers

No

Facility management

Yes

Maintenance & repairs

Yes

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**Q26: Do you lease space in your data center(s) to**

**other companies?**

Yes

**Q27: If YES, what percentage of your racks are**

**leased to other companies?**

*Respondent skipped this*

*question*

**Q28: If you lease data center space to or from**

**another company, does the tenant or facility owner typically pay for electricity costs?**

No. Most payment are based on area required for

racks.

PAGE 9: Facility Management

**Q29: Regarding Facility Management; has your company considered or used any of the following**

**technologies and energy saving strategies: (check all that apply)**

Isolating hot/cold aisles

HAS USED; Would use again

Blanking panels

HAS USED; Would use again

Enclose server racks (e.g., strip curtains)

HAS USED; Would use again

Data center infrastructure management (DCIM)

software

HAS USED; Would use again

Raising temperature set points

HAS USED; Would use again

Variable speed fan drives

HAS USED; Would use again

Energy-efficient air handling units

HAS USED; Would use again

Modular facility design for data center expansion

HAS USED; Would use again

Air-side economizer

HAS USED; Would use again

Water-side economizer

HAS USED; Would use again

Energy-efficiency lighting

HAS USED; Would use again

Predictive modeling of future IT deployments

HAS USED; Would use again

Other (please specify)

Sustainability metrics such as PUE, WUE,

CUE, Work Load Balancing are used to track and fine tune mechanical, electrical and IT equipment for maximum energy usage.

**Q30: What is the typical facility temperature?**

78

PAGE 10: Servers

**Q31: Regarding Servers; Has your company considered or used any of the following technologies**

**and energy saving strategies: (check all that apply)**

Energy efficient server hardware (e.g., power supply,

fans, etc.)

HAS USED;Would use again

Underclocking

HAS USED;Would use again

Virtualization

HAS USED;Would use again

Decomission idle servers

HAS USED;Would use again

Consolidate lightly used servers

HAS USED;Would use again

Improve data storage efficiently

HAS USED;Would use again

IT power management software

HAS USED;Would use again

Other (please specify)

DCIM

PAGE 11: [Multi-tenant DCs] Adjust pricing models to incentivize energy efficiency

**Q32: Regarding [Multi-tenant data centers] Adjust pricing models to incentivize energy efficiency; Has**

**your company considered or used any of the following technologies and energy saving strategies: (check all that apply)**

Space-based pricing

HAS USED; Would use again

Space and power block pricing (differentiate power

and energy)

DON'T KNOW

Space and actual power pricing (differentiate power

and energy)

DON'T KNOW