

**Background**

The City solicited for colocation data center services to host City server equipment.

**Sustainability Related Questions for Co-Location Data Center Services**

**REQUIRED INFORMATION**

**Reporting**

The data center provider must be able to provide the following data on at least a semi-annual basis:

1. Electricity usage associated with the City’s equipment
2. % of cooling load associated with hosting the City’s equipment
3. Information on electricity/energy sources such that the City can determine power source mix

The details of how this data will be communicated will be determined during contract negotiations, but one option could be having the data center provider load information directly into the City’s Portfolio Manager account.

**Energy & Water Efficiency**

Sustainability and energy efficiency are important concerns, and the City expects the Contractor to have policies and protocols in place to continuously improve the water and energy efficiency of the facility.

**EVALUATIVE QUESTIONS**

**Energy and Carbon**

1. What was the data center’s average Power Usage Effectiveness (PUE) for calendar year 2015 or nearest reporting period (specify timeframe)? (Show calculation: Total Facility Energy/IT Equipment Energy)
2. What types of strategies are currently utilized at the data center to reduce energy use?
3. What types of new energy efficiency strategies are planned and budgeted for the data center over the next two years?
4. Do you engage with your co-location clients to improve the energy efficiency of the data center? If yes, how?
5. Describe your client electricity usage reporting capabilities (online/on-demand, electronic formats, frequency, report contents, etc.).
6. What was the data center’s average Carbon Usage Effectiveness (CUE) for calendar year 2015 or nearest reporting period (specify timeframe)? (Show calculation: Annual CO2 Emissions by Total Datacenter Energy/IT Equipment Energy)
7. What is the power source mix for the data center’s energy?

Power Source	Percentage of Data Center’s Power Source Mix	Off-Site or On-Site Source?
Coal		
Natural Gas		
Hydroelectric		
Petroleum		
Biomass		
Geothermal		
Wind		
Solar		
Other: (specify)		
Other: (specify)		

Other: (specify)		
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8. What plans are in place to change data center's power source mix change over the next 5 years? Are any of these plans currently budgeted?

**Water**

1. What was the data center's average Water Usage Effectiveness for calendar year 2015 or nearest reporting period (specify timeframe)? (Show calculation: Annual Site Water Usage/IT Equipment Energy)
2. What types of strategies are currently utilized at the data center to reduce water use?
3. What types of new water use reduction strategies are planned and budgeted for the data center over the next two years?

**Building**

1. Is the data center a USGBC LEED Certified Building or certified to another third-party green building certification program? If yes, provide the certification details (e.g. certification name, version, year of certification, etc.)
2. If the building is not certified to any third-party certification program but otherwise incorporates green design features (e.g. eco-roofs, rainwater harvesting, etc.), provide a list of the data center's green design features.