



# Co-located Load Challenges and Opportunities

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# Constellation At A Glance

## Our Business

Constellation is the nation's largest producer of clean, carbon-free energy and a leading supplier of energy products and services, including sustainable energy solutions.

### 48 states

Operates in 48 U.S. states, the District of Columbia, Canada and the United Kingdom.



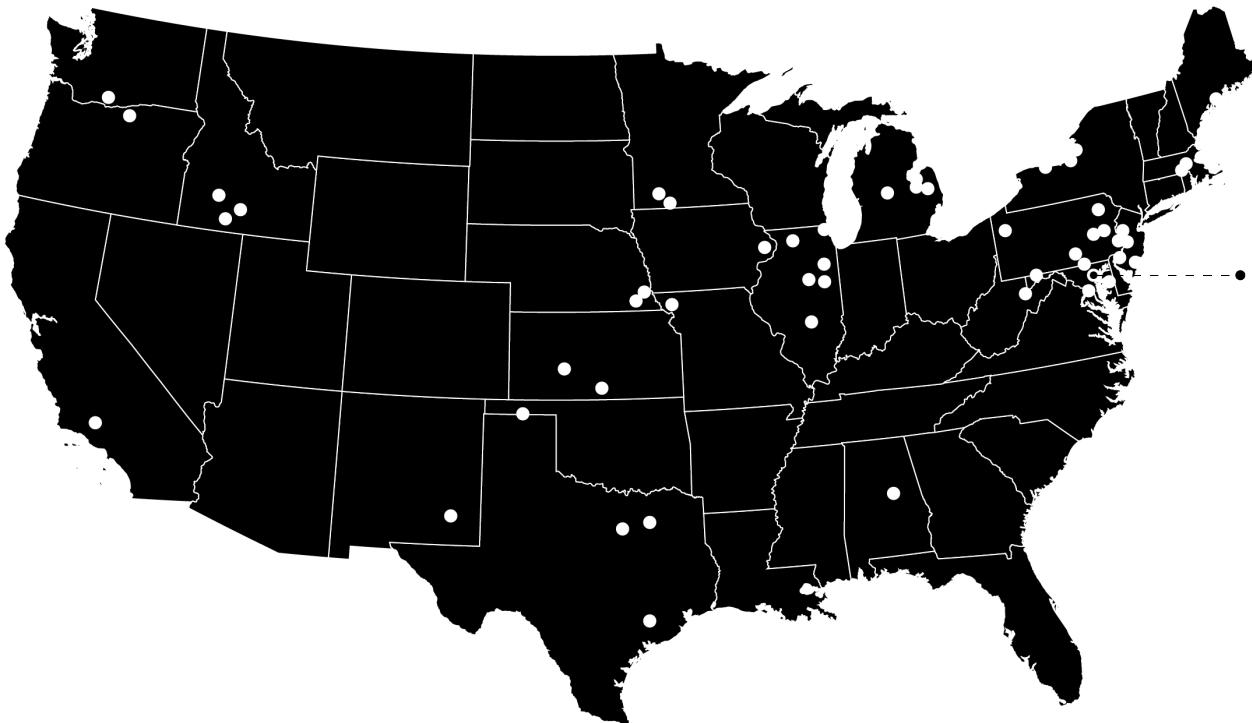
### >33,000 MWs

Constellation has a generating capacity of more than 33,000 MWs and an annual output that is nearly 90 percent carbon-free, generating enough clean, carbon-free energy to power the equivalent of 16 million homes.



### ~10%

Constellation produces approximately 10 percent of the carbon-free energy in the U.S.



Headquartered in Baltimore

~14,000  
Employs almost 14,000 people.

~2 million  
Constellation serves approximately two million residential, public sector and business customers through our family of retail businesses.

75%  
Constellation supplies energy products and services, including sustainability solutions, to 75 percent of Fortune 100 companies.

# Data Center Land & Power Requirements and Realities

## Must Have

- Land capable of a data center build (generally less than 15 degree slope)
- Outside of 500 year flood zone
- Limited wetlands
- Limited impacts from endangered species and historical artifacts
- Clear path to land entitlement: zoning and permitting
- Access to large sources of generation

## Nice-to-Haves

- 300+ contiguous acres
- Known utility capacity and approvals
- Direct access to high voltage power
- Redundant power feeds
- Fast-track site readiness to build
- Permitted, Zoned and Entitled land
- Local and state tax incentives
- Carbon Free energy source
- Competitive power prices
- Water for cooling

## Nirvana

- 500+ contiguous acres
- No flood, wetlands or other risk elements
- Fully entitled, zoned, permitted
- Direct substation access
- Utility approval for interconnection
- 100+MWE on day 1
- 1000+ MWE by year 3
- Full local and state tax incentives
- Carbon Free energy source
- Competitive power prices

## Hard Spots and Potential Solutions

- Very slow speed of interconnection. Business as usual is not working:
  - Utility load interconnect processes may further slow speed to market
  - Utility resource constraints
  - Negative reaction to configurations that relieve grid stress such as behind the meter
- Large up-front load study fees and letters of credit can help screen out speculative projects
- Developers and IPP's seeking to partner and help the Utilities move faster and reduce risk:
  - Acquisition of long lead equipment (transformers, HV breakers, . . . )
  - Preferential vendors and equipment manufacturers that differ from utility standards
  - Utilities drive decisions on use of available long lead equipment and configurations
- Timeline to sign collateral agreements need to be workable for projects/customers

# Questions?