

A decentralized energy solution enables maximum security of supply.

Fast Facts:

Application: Data Centers

CHP System: 2 x avus 1000plus

Output el/th (kW): 2 x 997 kWel



Key Details:

- 41% total **efficiency**
- The system covers over **75% of the site's peak demand**, offsetting 88% of its annual power consumption.
- **Load-following** and **island mode** capabilities
- It's electric-only rooftop DX units made **integrating chilled water cost-prohibitive**
- **First-year energy cost savings** projected to be \$360k compared to current utility costs

The Centersquare BOS1-A data center in Waltham, Massachusetts, with a total area of 165,968 m², is one of the leading locations for data center services in the greater Boston area. Centrally located in Boston's tech corridor,

BOS1-A offers a powerful and secure data infrastructure for demanding business applications, including financial, media, and cloud service providers.

Due to the scale of these facilities, large amounts of energy are required. In order to significantly reduce the associated high energy costs while maximizing security of supply, Centersquare relies on two highly efficient avus 1000plus combined heat and power units from 2G Energy. This solution was chosen as it offers a stable and reliable energy supply while also being highly economical.

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The development and integration of a microgrid by Unison Energy ensures a reliable supply of natural gas to the CHPs. The entire system is financed, operated, and maintained by Unison Energy under a 20-year energy service contract.

By opting for this CHP solution, Centersquare is increasing the energy efficiency of its data center and the security of supply, while also improving its sustainability balance and reducing operating costs. This is an investment that is economically and ecologically convincing and that sustainably strengthens its competitiveness.