



Intel® Corporation Presents:
The Eco-Technology Great Debates

High Density Data Centers

High Density Computer Data Center



Cold Aisle



Data Center Section



Hot Aisle

High Density Compute Data Center

- Energy Efficiency Features
 - Enclosed hot aisles
 - Centralized humidity control
 - Variable speed direct drive fans respond to server airflow requirements
 - Medium temperature chilled water (55°F)
 - Water side economizer
 - Adiabatic humidification using server heat to evaporate moisture
- Data Center Efficiencies (Calculated)
 - CFL = 0.33
 - PFL = 0.15
 - IFL = 1.00
 - PUE = 1.48 (annualized)
 - API = 0.63

(Available Power Index[©] = IT Load / Total Facility Design Load)