

## Changing the consumption conversation

Higher Education



### LOCATION

Vancouver, BC

### CLIENT

The University of British Columbia

### COMPLETION

2016

### COLLABORATORS

Applied Engineering Solutions Ltd.

BKL Consultants Ltd.

Fast + Epp

FVB Energy Inc.

Kerr Wood Leidal Associates

LMDG Building Code Consultants Ltd

Perry + Associates

### DIALOG SERVICES

Architecture

Sustainability + Building Performance

Consulting

The Campus Energy Centre (CEC) inhales massive amounts of air to feed the combustion process and exhales hot, humid exhaust, while supporting a pulsing circulatory system that feeds hot water to campus buildings. Comprised of a new high-efficiency hot water heating plant and district hot-water distribution loop, the CEC replaces an old boiler plant constructed in 1925. The new system serves over 130 buildings delivered through 14 km of underground insulated pipe. It houses all process equipment including three 15 MW boilers with capacity for phased expansion to a total output of 80 MW. Its design and placement on campus redefines district energy by making sustainable infrastructure visible to the campus community. DIALOG also provided energy modeling services on this project.