DIALOG

UNIVERSITY OF BRITISH COLUMBIA – CAMPUS ENERGY CENTRE

# Changing the consumption conversation

**Bridges & Urban Infrastructure**

**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

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.