

## Innovation heats up B.C. hospitals

The BC Children's Hospital and BC Women's Hospital campus is achieving significant advances in energy efficiency through waste heat recovery. Two retrofit projects are reusing thermal energy already



available in their buildings to heat themselves (e.g. heat generated from cooling systems). When completed, the projects are expected to reduce carbon emissions at the campus by more than 1,000 tonnes carbon dioxide equivalent annually, which represents close to a 10% reduction for the entire hospital campus and is equivalent to removing over 350 passenger vehicles from the road indefinitely.

The Provincial Health Services Authority (PHSA) is applying a unique technology called Thermal Gradient Header, which allowed PHSA to integrate standard heating, ventilation and air conditioning equipment into a new design in a way that facilitates reuse of thermal energy that would otherwise be wasted. When completed the two projects will result in over \$500,000 in incentive funding from FortisBC, which will be used to support more energy conservation and carbon reduction projects at the campus.