

November 17, 2017.

FortisBC Custom Electric Rebate for:

Vortex Technology for treating arena ice resurfacing water

To qualify for a rebate the arena must be taking power from FortisBC or in the service areas of Grand Forks, Summerland, Penticton or Nelson Hydro. For more information about custom rebates please contact a FortisBC Technical Advisor.

webpage: <https://www.fortisbc.com/Rebates/Pages/Contact-us-electricity-business-rebates.aspx>

Savings are derived from a reduction in energy required for:

- 1) Heating the resurfacing water. (Qualifies for a rebate if electrically heated)
- 2) Freezing the resurfacing water that is flooded on to the ice surface.
- 3) Reducing the thickness of the ice to the minimum allowed. (See NrCan Fact Sheets)
- 4) Increasing of the ice surface temperature. (See NrCan Fact Sheets)

NrCan Fact Sheets:

http://canmetenergy-canmetenergie.nrcan.gc.ca/fichier/81155/2003-065_066e.pdf

FortisBC will provide a custom electric savings rebate quote based on following parameters provided by the customer and confirmed with a pre-project site visit:

- Hot water
 - Heating fuel type (Qualifies for a rebate if electrically heated)
 - Temperature set point.
 - Indicate if hot water is tempered with cold water.
- Ice conditions
 - Average slab thickness.
 - Temperature control set point.
- Ice surface floods - average
 - Floods per day, on average for the season
 - Volume per flood (e.g. US gallons)
 - Length of season.
- Required measurements
 - Instantaneous measurement of hot water temperature to resurfacing machine.
 - Record of the hot water set point at the time of measurement.
 - City water temperature.

After installation of the vortex unit and a suitable commissioning period (e.g., 3 weeks), the following parameters should be provided by the customer for final rebate calculation:

- Hot water
 - Temperature set point.
 - Indicate if cold water is tempered with hot water.
- Ice conditions
 - Average slab thickness.
 - Temperature control set point.