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Air-Supported Structure Utilities Expenses – Examples from Across Canada

Air-supported structures require heat and inflation units to maintain the shape of the dome and provide ideal playing conditions for participants. To aide municipal staff with creating financial projections and forecasts for a potential air-supported indoor tennis facility, utilities expenses have been estimated for climates across Canada. The table below states the average utilities expense incurred during a winter month for a four-court or six-court facility. Variables that influence utilities expenses such as climate, utility rates, and operating hours are also summarized below.

	Surrey, BC	Edmonton, AB	Saskatoon, SK	Guelph, ON	Montreal, QC	Moncton, NB
Outside Winter Temperature	-1.7 °C	-28.9 °C	-31.7 °C	-15.5 °C	-21.1 °C	-20.6 °C
Heating Fuel Cost (per m^3)	$0.21	$0.20	$0.12	$0.26	$0.35	$0.33
Electricity Cost (per kwh)	$0.09	$0.06	$0.12	$0.09	$0.10	$0.11
Operating Hours	Monday to Friday 8am to 11pm, Saturday & Sunday 8am to 8pm					
Size	4-court structure (224x118ft – 26,000 sqft.)			6-court structure (336x118ft – 40,000 sqft.)		
Monthly Utilities Expense (Winter)	**$2,660**	**$3,160**	**$4,240**	**$4,780**	**$7,410**	**$6,380**

Based on our research, utilities expenses for an air-supported structure can range from $2,600 to $7,400 per month during the winter.

Winter = December 1st to March 31st
Utilities are estimated for an insulted air-supported structure.