

## SCHEDULE 4 – AVERAGE INCREMENTAL COST

Estimated Marginal Energy Costs (\$/MWh)						
		2022	2023	2024	2025	2026
Summer	On Peak	44.87	37.74	38.48	36.08	35.93
	Off Peak	31.40	24.37	25.77	25.64	26.58
	All Hours	37.59	30.52	31.62	30.44	30.88
Winter	On Peak	56.22	43.99	42.68	42.67	42.19
	Off Peak	41.15	31.89	32.10	30.87	31.78
	All Hours	48.08	37.46	36.96	36.30	36.57
Annual	On Peak	50.54	40.87	40.58	39.37	39.06
	Off Peak	36.27	28.13	28.94	28.26	29.18
	All Hours	42.84	33.99	34.29	33.37	33.73
Annual # hours on-peak:						

Description of season and on-peak and off-peak periods	
Summer:	April through September
Winter:	October through March
On-peak period:	6 am to 10 pm Monday through Friday except holiday (New Years, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day)
Off-peak period:	All other hours

### **Estimated Marginal Energy Costs**

The estimated system average incremental energy costs are calculated by seasonal peak and off-peak periods for each of the next five years. For each seasonal period, system incremental energy costs are averaged during system daily peak hours, system daily off-peak hours, and all hours in the season. The energy costs are increased by a factor equal to 50 percent of the line losses.

The energy needs of [UTILITY NAME HERE] are served through its membership in Southern Minnesota Municipal Power Agency (SMMPA). SMMPA, in turn, is a member of the Midcontinent ISO (MISO). As a result, the municipal’s incremental energy cost is equivalent to the MISO hourly Locational Marginal Price (LMP). Actual hourly LMP will vary significantly based on several parameters such as weather, energy demand, and generation availability. The table above represents a forecast of the MISO hourly LMP values averaged over each specific time period at the MISO Minnesota Hub.

### **Capacity Costs**

SMMPA, [UTILITY NAME HERE]’s wholesale supplier, has neither planned generating facility additions nor planned additional capacity purchases, other than from qualifying facilities, during the ensuing ten years, thus SMMPA and [UTILITY NAME HERE] are deemed to have no avoidable capacity costs.

