

Strawberry Point

Firm Capacity Obligation (FCO) Calculation MISO Plan Year 2022-23 (June 1 - May 31)

2/15/2022

FCO Calculation		kW
1.	Non-Coincident Peak Forecast	2,138
2.	Coincidence Factor	92.7%
	Net Forecast Peak	1,983
3.	Sales To Members (+)	0
4.	Purchases From Members (-)	0
	Subtotal	1,983
5.	Transmission Losses (+)	4.5%
	Subtotal	2,072
6.	Planning Reserve Margin Requirement (+)	8.7%
	Firm Capacity Obligation	2,252
7.	Registered MISO Generation	3,400
8.	Forced Outage Rate (-)	7.25%
9.	Avoided Transmission Loss for LMRs	4.5%
10.	Capacity Credit from Wind	0
11.	Capacity Purchase From Dairyland (+)	0
12.	Accredited Capacity	3,295
	Surplus or (Deficit)	1,043

Excess Capacity Sale to Dairyland		
Note:	13.	14.
	Monthly	Annual
kW	1,000	12,000
Rate (\$/kW/mo.)	NA	NA
Total	#VALUE!	#VALUE!

Capacity Purchased from Dairyland		
Note:	15.	16.
	Monthly	Annual
kW	0	0
Rate (\$/kW/mo.)	NA	NA
Total	#VALUE!	#VALUE!

17. Excess Capacity Sale to Dairyland Power	
Total Excess MW	1.0
Sale Price (\$ / MW-Yr) \$	20,000.00
Total Annual Sale (\$) \$	20,000.00

NOTES:

The Firm Capacity Obligation (FCO) is the amount of accredited generating capacity (including any capacity purchases, if necessary) to satisfy the Member's capacity obligation under the Wholesale Power Agreement.

- 1 Noncoincident Peak Forecast is the annual forecast demand determined by the Dairyland forecast model
- 2 Coincidence Factor (CF) is the Member peak coincident with MISO's summer peak divided by the Members non-coincident peak. The Diversity Factor (DF) is 1 - coincidence factor. Example: CF = 95%, DF = 1 - 95% = 5%
- 3 Member sales to other Members
- 4 Purchases from other Members
- 5 Transmission losses are calculated by MISO for the plan year
- 6 Reserve Capacity Obligation is calculated by MISO for the plan year
- 7 Registered MISO Generation is the amount of generating capacity that a Member can produce and sustain over an extended emergency dispatch period in the summer
- 8 Forced Outage Rate is the diesel engine class average calculated by MISO for the plan year
- 9 LMR Transmission Loss Avoidance
- 10 Capacity Credit from Wind
- 11 Capacity purchased from Dairyland, not other Members
- 12 The amount of generating capacity that meets requirements for serving load in MISO ("accredited capacity")
- 13 Amount of capacity sold to Dairyland monthly for the plan year
- 14 Total annual capacity sold to Dairyland for the plan year
- 15 Total monthly Demand and Demand Charge from Dairyland
- 16 Total annual Demand and Demand Charge from Dairyland
- 17 Excess plan year Capacity Sale to Dairyland Power - Stand-alone sale which is outside of provision of Wholesale Power