

August 30, 2024

To Market Participants and Other Interested Parties

Dear Stakeholder:

Re: **Adjustments to Loss Factors Established for 2024 Under Section 501.10 of the ISO Rules, Transmission Loss Factors (“Loss Factor Rule”)**

The AESO advises market participants and other interested parties that it has investigated if an adjustment to loss factors established for 2024 under the Loss Factor Rule is required. The revised loss factors are effective September 1, 2024.

The AESO assessed if changes that have occurred to generating facilities included in the information used to establish the loss factors for 2024, that were published on October 2, 2023, resulted in an increase or decrease of 0.25 or more percentage points to the loss factors established for one or more locations for 2024. Accordingly, affected loss factors were adjusted in accordance with subsection 2(4)(a) of the Loss Factor Rule.

The changes to generating facilities include:

- changes to in-service dates and changes to capacities;
- addition of generating facilities that were not originally included; and
- removal of generating facilities when in-service dates have been delayed beyond 2024.

The changes are summarized in the tables below, with the changes in Table 1 bolded to aid identification.

Table 1 – Changes to Generating Facilities Included in 2024 Loss Factors Posted on Oct 2, 2023

Included in Posting on Oct 2, 2023			To Be Included in Update for Sep 1, 2024		
Location (MPID)	In-Service Date	Capacity	Location (MPID)	In-Service Date	Capacity
Proj_2472	2024-07-01	4.9 MW STS	000005511	2024-08-01	4.9 MW STS
0000027511	Existing	13.1 MW STS	0000027511	2024-01-01	47.8 MW STS
Proj_2446	2024-03-01	20 MW STS	0000049811	2024-10-01	20.0 MW STS
Proj_2474	2024-06-01	1.4 MW STS	0000058011	2024-07-01	1.40 MW STS
Proj_2469	2024-07-01	0 MW STS	352S017N	2024-08-01	0 MW STS
Proj_1927	2023-12-01	360 MW STS	BKZ1	2024-12-01	360 MW STS
Proj_2247	2024-07-01	466 MW STS	BPW1	2024-08-01	466 MW STS
Proj_2032-1	2023-08-01	450 MW STS	CAS1	2024-03-01	450 MW STS

Included in Posting on Oct 2, 2023			To Be Included in Update for Sep 1, 2024		
Location (MPID)	In-Service Date	Capacity	Location (MPID)	In-Service Date	Capacity
Proj_2032-2	2023-08-01	450 MW STS	CAS2	2024-03-01	450 MW STS
Proj_1812	2022-08-01	200 MW STS	FMG1	2022-08-01	225 MW STS
Proj_2195	2023-12-01	9.25 MW STS	Proj_2195	2024-11-01	4.65 MW STS
Proj_2424	2024-04-01	13MW STS	Proj_2424	2024-12-01	13MW STS
Proj_2548	2024-09-01	0.66 MW STS	Proj_2548	2024-10-01	0 MW STS
Proj_693	2024-05-01	192 MW STS	Proj_693	2024-12-01	192 MW STS
Proj_2459_2475	2022-12-01	54 MW STS	S24N	2022-12-01	62.01 MW STS

Table 2 – Additions to Generating Facilities That Were Not Included in 2024 Loss Factors Posted on October 2, 2023

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
Proj_2137_2465	2024-10-31	150.0 MW STS	Enerfin Winnifred MPC Wind	Medicine Hat	4
Proj_2441	2024-09-10	139.5 MW STS	Halkirk Wind Facility 2	Alliance/Battle River	36

Table 3 – Removal of Generating Facilities That Were Included in 2024 Loss Factors Posted on October 2, 2023, Due to Expected In-Service Dates Being Later Than December 31, 2024:

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
Proj_2279	2024-06-01	32 MW MC	Primrose Industrial System	Cold Lake	28
Proj_2352	2024-09-01	0 MW STS	ATCO Electric Reversing POD - Ethel Lake (717S)	Cold Lake	28
Proj_2471	2024-09-01	15.10 MW STS	FortisAlberta Reversing POD - Wetaskiwin Buford (538S)		31
Proj_2300	2024-06-01	65 MW STS	Enterprise MPC Solar	Stavely	49
Proj_2335	2024-06-01	12.6 MW STS	FortisAlberta Reversing POD - Stavely Vulcan (255S)		49
Proj_2192	2024-04-01	5 MW STS	ENMAX Reversing POD - 15 Substation (SS-15)	Calgary	6
Proj_2354	2024-04-01	5 MW STS	ENMAX Reversing POD - 20 Substation (SS-20)	Calgary	6

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
Proj_2468	2024-08-01	3.58 MW STS	ATCOElectric Reversing POD - Lloydminster Brier (880S)	Lloydminster	13

The AESO updated the data and system topologies used to calculate loss factors to reflect the changes, additions, and removals summarized above. Modifications to battery storage forecasting were also made to improve the accuracy of the forecast data. The AESO has re-calculated loss factors using the updated information. The average loss factor for the transmission system did not increase or decrease by 0.25 or more percentage points, which is the threshold established in subsection 2(4)(b) of the Loss Factor Rule beyond which loss factors for all locations may be adjusted.

However, as noted above, loss factors for one or more locations for 2024 increased or decreased by 0.25 or more percentage points, which is the threshold established in subsection 2(4)(a) of the Loss Factor Rule beyond which the loss factor for an individual location may be adjusted. The AESO adjusted the loss factor for every location where the loss factor increased or decreased by 0.25 or more percentage points due to the loss factor calculation reflecting the changes, additions, and removals of generating facilities summarized above.

The adjusted loss factors became effective on September 1, 2024 for the remainder of 2024 in accordance with the Loss Factor Rule.

Stakeholders can access 2024 loss factor data, results, and related information on the AESO website at www.aeso.ca ► Grid ► Grid-Related Initiatives ► Loss factors ► 2024 loss factors. Loss factor stakeholder updates and related information are available at www.aeso.ca ► Grid ► Grid-Related Initiatives ► Loss factors ► Stakeholder engagement.

The AESO will provide further stakeholder updates when additional information becomes available. In the meantime, stakeholders may contact Brittany Pichach at Brittany.Pichach@aesoc.ca or Iraj Rahimi at Iraj.Rahimi@aesoc.ca with any concerns or questions.

Yours truly,

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 Engineer in Training

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