May 30, 2023

To Market Participants and Other Interested Parties

Dear Stakeholder:

Re: **Publication of Adjustments to Loss Factors Established for 2023 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 adjusted loss factors established for 2023 under the Loss Factor Rule, with the adjustments to become effective on June 1, 2023.

The AESO has assessed changes that have occurred to generating facilities included in the information used to establish the loss factors for 2023 that were published on September 29, 2022. The AESO has accordingly determined it should undergo the adjustment process and determine if those changes will result in an increase or decrease of 0.25 or more percentage points to the loss factors established for one or more locations for 2023 and adjust the affected loss factors in accordance with subsection 2(4)(a) of the Loss Factor Rule.

The changes to generating facilities include:

- changes to in-service dates:
- changes to capacities;
- removal of generating facilities when in-service dates have been delayed beyond 2023 and
- additions of generating facilities that were not originally included;

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 2023 Loss Factors Posted on September 29, 2022

Included in Posting on Sep 29, 2022			To Be Included in Update for Jun 1, 2023		
Location (MPID)	In-Service Date	Capacity	Location (MPID)	In-Service Date	Capacity
Proj_1250	2022-10-01	120 MW STS	**GRZ1**	2022-10-01	**152 MW STS Staged**
0000006511	2022-11-01	7.4 MW STS	0000006511	2022-11-01	**14.4 MW STS Staged**
Proj_2061_2248	2022-09-01	24.5 MW STS	**361S001N**	**2023-01-01**	**85.5 MW STS Staged**
Proj_2216	2022-09-30	10.5 MW STS	Proj_2216	**2023-03-15**	10.5 MW STS
0000034911	2022-06-01	14.1 MW STS	0000034911	**2023-04-28**	14.1 MW STS

Alberta Electric System Operator
Calgary Place, 2500, 330-5th Avenue SW Calgary, AB T2P 0L4
Phone: 403-539-2450 | Fax: 403-539-2949
www.aeso.ca
@theaeso

Included in Posting on Sep 29, 2022			To Be Included in Update for Jun 1, 2023		
Location (MPID)	In-Service Date	Capacity	Location (MPID)	In-Service Date	Capacity
Proj_2346	2022-11-01	2.7 MW STS	Proj_2346	**2023-05-01**	2.7 MW STS
Proj_2249_2250	2022-05-01	37.5 MW STS	Proj_2249_2250	**2023-05-01**	37.5 MW STS
Proj_1533	2022-08-30	122.4 MW STS	Proj_1533	**2023-08-01**	**122.4 MW STS Staged**
Proj_1567	2022-10-31	300 MW STS Staged	Proj_1567	**2023-08-15**	**288.9 MW STS Staged**
Proj_2314_2315	2022-12-19	40.8 MW STS	Proj_2314_2315	**2023-08-22**	40.8 MW STS
Proj_693	2022-08-15	192 MW STS Staged	Proj_693	**2023-08-31**	192 MW STS Staged
JNR2	2022-08-01	71.4 MW STS	JNR2	**2023-09-01**	71.4 MW STS Staged
Proj_1853	2022-09-01	12.3 MW STS	Proj_1853	**2023-09-08**	12.3 MW STS
Proj_1892	2022-09-01	4.6 MW STS	Proj_1892	**2023-09-08**	4.6 MW STS
Proj_2199	2022-09-01	13.8 MW STS	Proj_2199	**2023-09-08**	13.8 MW STS
0000038511	2023-08-04	29.5 MW STS	0000038511	**2023-12-01**	29.5 MW STS
Proj_2195	2023-02-01	9.25 MW STS	Proj_2195	**2023-12-10**	9.25 MW STS

Table 2 – Additions to Generating Facilities That Were Not Included in 2023 Loss Factors Posted on September 29, 2022

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
HLD1	2022-11-16	100 MW STS	Hilda Wind Facility	Empress	48
S24N	2022-12-23	54 MW STS Staged	ENMAX Reversing POD - 24 Substation (SS-24)	Calgary	6
0000021311	2023-01-20	18.5 MW STS	FortisAlberta Reversing POD - Hughenden (213S)	Provost	37
0000029711	2023-03-31	7.25 MW STS	FortisAlberta Reversing POD - Rimbey (297S)	Red Deer	35
Proj_2361	2023-07-01	6 MW STS	ATCO Youngstown 772S DER Solar	Hanna	42
Proj_2334	2023-08-01	81 MW STS	Saddlebrook Solar and Storage	High River	46
Proj_2412	2023-08-22	4.6 MW STS	Fortis Buffalo Atlee Cluster 4 DER Wind	Empress	48
Proj_2424	2023-09-01	12.6 MW STS	ATCO Oyen 767S DER Solar	Hanna	42

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
Proj_2237	2023-09-15	266 MW STS Staged	RESC Forty Mile MPC Wind	Medicine Hat	4
Proj_2348	2023-09-30	50 MW STS	BluEarth Wheatcrest MPC Solar	Vauxhall	52
Proj_2452	2023-10-01	0 MW STS	ATCO Poplar Hill 790S DER Gas	Grande Prairie	20
Proj_1704_2562	2023-10-06	190 MW STS	Paintearth Wind Power (973S)	Hanna	42

Table 3 – Removal of Generating Facilities That Were Included in 2023 Loss Factors Posted on September 29, 2022, Due to Expected In-Service Dates Being Later Than December 31, 2023:

Location (MPID)	In-Service Date	Capacity	Facility Name	Area Name	Number
Proj_1500	2022-12-07	47 MW STS	Renewable Energy Service WAGF (423S)	Fort Macleod	53
Proj_2266	2022-12-15	2.1 MW STS	ATCO Seal Lake 869S DER Solar (869S)	Peace River	19
Proj_1290	2023-05-22	200 MW STS	Whitetail Peaking Station (976S)	Peace River	19
Proj_2300	2023-06-30	65 MW STS	RESC Enterprise MPC Solar (1070S)	Stavely	49
Proj_1837	2023-09-04	20.8 MW STS	FortisAlberta Reversing POD - Tilley (498S)	Brooks	47

The AESO has updated the data and system topologies used to calculate loss factors to reflect the changes, additions, and removals summarized above, and has 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, the loss factors for a number of locations for 2023 increase or decrease 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 has adjusted the loss factor for every location where the loss factor increases or decreases by 0.25 or more percentage points as a result of the loss factor calculation reflecting the changes, additions, and removals of generating facilities summarized above.

Consistent with the stakeholder update the AESO provided on April 11, 2023, the adjusted loss factors will first be used on the settlement of production month June 2023 for system access services provided under Rates STS, XOS, IOS, and DOS of the ISO tariff.

Stakeholders can access 2023 loss factor data, results, and related information on the AESO website at www.aeso.ca ► Grid ► Grid-Related Initiatives ► Loss factors ► 2023 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 Dugas or Iraj Rahimi with any concerns or questions.

Yours truly,

Iraj Rahimi
Manager, Standards & Modeling, AESO

cc: Changling Luo, Director, Grid Reliability Services, AESO
Brittany Dugas, EIT, Standards & Modeling, AESO