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July 18, 2019

VIA ELECTRONIC FILING

Attention: Filing Center
Public Utility Commission of Oregon
201 High Street SE, Suite 100
P.O. Box 1088
Salem, Oregon 97308-1088

Re: Docket No. UM 1911
Resource Value of Solar – Idaho Power Company’s Order No. 19-022 Compliance
Filing

Dear Filing Center:

In compliance with Order No. 19-022, Idaho Power Company (“Idaho Power” or “Company”) hereby submits for filing additional information associated with its resource value of solar (“RVOS”) calculation. In Order No. 19-022, the Public Utility Commission of Oregon (“Commission”) directed Idaho Power to express the RVOS component values for generation capacity, transmission and distribution (“T&D”) capacity deferral, and line losses in 12-month by 24-hour (“12x24”) blocks and to develop rudimentary locational values for T&D capacity deferrals by July 18, 2019. Previously, on March 18, 2019, Idaho Power submitted revised RVOS calculations and a revised utility-scale RVOS calculation consistent with the Commission’s direction provided in Order No. 19-022.

GENERATION CAPACITY 12X24 BLOCKS

As directed in Order No. 19-022, the Company has developed its pricing for generation capacity value shaped across 12x24 blocks to express the temporal value of system generation capacity need. In accordance with the order, these 12x24 blocks were not shaped by solar performance assumptions, but rather were shaped to reflect when avoided generation capacity is most useful to the system.

To develop these blocks, the Company utilized loss of load probability (“LOLP”) data developed during its 2017 Integrated Resource Plan (“IRP”) to create a 12x24 profile. A LOLP study is typically performed within the context of resource planning as a measure of reliability. For the 2017 IRP, the LOLP study reflected 500 annual iterations of random outages, indicating

time periods when the loss of a unit (or units) would have likely resulted in a service outage. Within the context of the RVOS, this data can be applied to identify when capacity would be most useful to the system to alleviate loss of load conditions.

Table 1 below presents the results of the LOLP study. Each amount represents the percentage of the loss-of-load instances that occurred during that month-hour during the study. As can be seen from Table 1, June and July contain the largest portion, 49 percent, of the total LOLP hours occurring in the analysis. This result is consistent with the Company's highest load hours that occur during its summer peak. Additionally, the winter months December through February contribute 33 percent of the LOLP hours identified in the study.

Table 1 – Loss of Load Probability, 2017 Integrated Resource Plan

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	0.68%	0.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7	1.25%	2.60%	0.00%	0.00%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%
8	2.41%	3.47%	0.00%	0.19%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
9	1.45%	2.51%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%
10	0.87%	0.00%	0.00%	0.39%	0.19%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%
11	0.77%	0.00%	0.00%	0.39%	0.00%	0.00%	0.39%	0.00%	0.10%	0.00%	0.00%	0.10%
12	0.29%	0.00%	0.00%	0.39%	0.39%	0.19%	0.68%	0.00%	0.00%	0.00%	0.00%	0.00%
13	0.10%	0.00%	0.00%	0.10%	0.19%	0.10%	1.64%	0.00%	0.10%	0.00%	0.00%	0.00%
14	0.10%	0.00%	0.00%	0.19%	0.39%	0.48%	2.80%	0.19%	0.00%	0.00%	0.00%	0.00%
15	0.00%	0.00%	0.00%	0.29%	0.19%	0.96%	5.30%	0.68%	0.58%	0.00%	0.00%	0.00%
16	0.10%	0.00%	0.00%	0.48%	0.19%	1.06%	5.79%	1.35%	0.77%	0.00%	0.00%	0.00%
17	0.58%	0.10%	0.00%	0.29%	0.48%	2.51%	8.68%	1.16%	1.35%	0.00%	0.00%	0.10%
18	2.03%	2.22%	0.00%	0.48%	0.48%	1.06%	7.52%	0.96%	0.96%	0.00%	0.00%	0.10%
19	1.64%	3.18%	0.00%	0.39%	0.29%	1.54%	3.28%	0.48%	0.96%	0.00%	0.00%	0.10%
20	0.87%	1.25%	0.00%	0.10%	0.19%	0.87%	2.22%	0.19%	0.77%	0.00%	0.00%	0.19%
21	0.39%	1.35%	0.10%	0.19%	0.29%	0.48%	0.77%	0.19%	0.19%	0.00%	0.00%	0.00%
22	0.00%	0.58%	0.00%	0.19%	0.00%	0.19%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%
23	0.00%	0.00%	0.00%	0.00%	0.10%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	13.69%	17.74%	0.10%	4.15%	3.76%	9.55%	39.15%	5.21%	5.98%	0.00%	0.00%	0.68%

The intent of the 12x24 matrix is to value capacity according to when it is most useful to the Company's system. The Company is generation capacity-sufficient for a majority of the year and has low LOLP values during the majority of the hours—therefore additional capacity during those times would provide no capacity value to the Company's system.

Overall, 183 of the 288 hours in the 12x24 matrix had a zero LOLP. For the remaining 105 hours the LOLP varied from 0.10 percent to 8.68 percent. Based on this data set, the Company developed a model to assign generation capacity value for each hour of the 12x24 matrix as a scalar based on the relative values in the table above. Because the LOLP data is not distributed normally—it includes a high number of small values and relatively few large values—application of a simple scalar model would result in scalar values ranging from 0.0 to

25.0, with outsized generation capacity values at the upper end. Based on this simple calculation method, the Company does not believe a highly concentrated number of values would result in an RVOS that is stable, accurate, or reasonable for practical application.

To address this issue, the Company reviewed different methods of assigning generation capacity value to the 12x24 expression and developed a method that assigns increasing value to the increasing levels of LOLP but limits or “flattens” the values to avoid highly-concentrated cost assignment that would not be appropriate for practical application. The Company’s proposed model groups the 105 non-zero data points by size into eight tiers. Each tier was assigned a weighting factor, ranging from 2.0 for the smaller LOLP values to 6.7 for the largest LOLP value. The intent of this method was to recognize the temporal variances in generation capacity value while flattening the LOLP-based cost allocation to a reasonable distribution that could be utilized for practical applications. The Company believes a range of 2.0 to 6.7 strikes the appropriate balance between temporal value differentiation and the development of a useful matrix but acknowledges there are multiple ways to achieve this objective. Idaho Power looks forward to further discussion with Staff on this issue.

Table 2 presents the Company’s model for allocation of generation capacity value.

Table 2 – Generation Capacity Value 12x24 matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	2.6667	2.6667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	3.3333	4.0000	0.0000	0.0000	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000
8	4.0000	4.0000	0.0000	2.0000	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	3.3333	4.0000	0.0000	2.0000	0.0000	0.0000	0.0000	0.0000	2.0000	0.0000	0.0000	0.0000
10	2.6667	0.0000	0.0000	2.6667	2.0000	0.0000	0.0000	0.0000	2.0000	0.0000	0.0000	0.0000
11	2.6667	0.0000	0.0000	2.6667	0.0000	0.0000	2.6667	0.0000	2.0000	0.0000	0.0000	2.0000
12	2.6667	0.0000	0.0000	2.6667	2.6667	2.0000	2.6667	0.0000	0.0000	0.0000	0.0000	0.0000
13	2.0000	0.0000	0.0000	2.0000	2.0000	2.0000	3.3333	0.0000	2.0000	0.0000	0.0000	0.0000
14	2.0000	0.0000	0.0000	2.0000	2.6667	2.6667	4.0000	2.0000	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	2.6667	2.0000	2.6667	4.6667	2.6667	2.6667	0.0000	0.0000	0.0000
16	2.0000	0.0000	0.0000	2.6667	2.0000	3.3333	5.3333	3.3333	2.6667	0.0000	0.0000	0.0000
17	2.6667	2.0000	0.0000	2.6667	2.6667	4.0000	6.6667	3.3333	3.3333	0.0000	0.0000	2.0000
18	4.0000	4.0000	0.0000	2.6667	2.6667	3.3333	6.0000	2.6667	2.6667	0.0000	0.0000	2.0000
19	3.3333	4.0000	0.0000	2.6667	2.6667	3.3333	4.0000	2.6667	2.6667	0.0000	0.0000	2.0000
20	2.6667	3.3333	0.0000	2.0000	2.0000	2.6667	4.0000	2.0000	2.6667	0.0000	0.0000	2.0000
21	2.6667	3.3333	2.0000	2.0000	2.6667	2.6667	2.6667	2.0000	2.0000	0.0000	0.0000	0.0000
22	0.0000	2.6667	0.0000	2.0000	0.0000	2.0000	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000	2.0000	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

This method appropriately allocates the generation capacity value across the 12x24 matrix and aligns to the times additional generation capacity would be most useful to the system, based on the LOLP analysis. Further, the Company’s peak load amounts are heavily concentrated in the summer months of June through August, primarily in afternoon through evening hours, when energy use for cooling coincides with use by agricultural customers to

operate irrigation pumps. Other high-load hours occur during the winter when daylight hours are fewest and electricity is used for lighting and heating. At these times, additional generation capacity is most useful to the system.

Additionally, the Company's minimum loads occur during the shoulder months in the spring and fall. Relatively little of the capacity value is assigned to those lower-load periods.

The Company's March 18, 2019, RVOS filing calculated the generation capacity value of \$10.55 per MWh. The following table uses that capacity value and the 12x24 matrices above to illustrate the impacts of the pricing matrix on generation capacity value (in \$ per MWh):

Table 3 – Generation Capacity Value pricing (in dollars per MWh)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	28.13	28.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	35.17	42.20	0.00	0.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00	21.10
8	42.20	42.20	0.00	21.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	35.17	42.20	0.00	21.10	0.00	0.00	0.00	0.00	21.10	0.00	0.00	0.00
10	28.13	0.00	0.00	28.13	21.10	0.00	0.00	0.00	21.10	0.00	0.00	0.00
11	28.13	0.00	0.00	28.13	0.00	0.00	28.13	0.00	21.10	0.00	0.00	21.10
12	28.13	0.00	0.00	28.13	28.13	21.10	28.13	0.00	0.00	0.00	0.00	0.00
13	21.10	0.00	0.00	21.10	21.10	21.10	35.17	0.00	21.10	0.00	0.00	0.00
14	21.10	0.00	0.00	21.10	28.13	28.13	42.20	21.10	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	28.13	21.10	28.13	49.23	28.13	28.13	0.00	0.00	0.00
16	21.10	0.00	0.00	28.13	21.10	35.17	56.27	35.17	28.13	0.00	0.00	0.00
17	28.13	21.10	0.00	28.13	28.13	42.20	70.33	35.17	35.17	0.00	0.00	21.10
18	42.20	42.20	0.00	28.13	28.13	35.17	63.30	28.13	28.13	0.00	0.00	21.10
19	35.17	42.20	0.00	28.13	28.13	35.17	42.20	28.13	28.13	0.00	0.00	21.10
20	28.13	35.17	0.00	21.10	21.10	28.13	42.20	21.10	28.13	0.00	0.00	21.10
21	28.13	35.17	21.10	21.10	28.13	28.13	28.13	21.10	21.10	0.00	0.00	0.00
22	0.00	28.13	0.00	21.10	0.00	21.10	21.10	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	21.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00

T&D CAPACITY 12X24 BLOCKS

Order 19-022 also requires Idaho Power to express T&D capacity values across 12x24 blocks that do not assume solar performance, but instead allocate the T&D capacity value to reflect when avoided T&D is most useful to the system, such as when T&D is most capacity constrained. It should be noted that the \$6.03/MWh reflected in the Company's March 18, 2019, compliance filing is a combination of both distribution and transmission components. Because the distribution system is generally designed to meet more localized peaks and the transmission system is generally designed to meet broader system peaks, it is necessary to separately determine the temporal values of these components.

For the deferral of distribution, the Company developed two 12x24 matrices, one for portions of its Oregon system that are summer-peaking and one for portions of the Oregon system that peak in the winter. The division of transformers into two seasonal groups was important to determine when the distribution system is most constrained. Because Idaho Power's Oregon service area contains some transformers that peak in winter and others that peak in summer, if data were combined for all transformers, the resulting 12X24 matrix could potentially yield less meaningful results, as the relative sizes of the seasonal peaks would be muted by being included in the same average shape.

Therefore, to develop the matrices, the hourly data for each of the 30 transformers that serve load in Oregon was collected for the twelve months ended April 30, 2019. The load of each of the 30 transformers was arranged in a 12x24 matrix, and a monthly typical day was created by computing the median value of each clock hour of the month. The transformers were then placed into two groups, summer peaking and winter peaking, based on when their peak load occurred.

Within each group, the 12x24 matrix of each individual transformer was added to create a summer peaking and winter peaking 12x24 matrix. Each matrix was normalized by dividing each element of the matrix by the sum of all the values within the matrix, and then each cell was converted to show a scalar representation of each cell's value compared to the average value of all cells. These two 12x24 matrices are below:

Table 4 – Distribution Capacity Value--Summer Peaking 12x24 matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.925	0.951	0.822	0.715	0.857	0.958	1.137	1.079	0.758	0.744	0.902	0.963
1	0.926	0.933	0.815	0.704	0.823	0.912	1.087	1.043	0.734	0.736	0.904	0.954
2	0.925	0.930	0.803	0.695	0.806	0.897	1.056	1.015	0.726	0.737	0.899	0.942
3	0.928	0.932	0.819	0.696	0.802	0.883	1.039	0.986	0.721	0.733	0.910	0.944
4	0.957	0.952	0.836	0.716	0.810	0.891	1.026	0.989	0.732	0.752	0.925	0.966
5	0.995	0.995	0.887	0.757	0.845	0.905	1.026	0.997	0.746	0.791	0.962	0.998
6	1.076	1.069	0.975	0.830	0.896	0.927	1.052	1.038	0.819	0.867	1.036	1.076
7	1.127	1.126	1.041	0.884	0.936	0.963	1.105	1.060	0.857	0.925	1.090	1.114
8	1.146	1.132	1.053	0.890	0.967	0.996	1.157	1.098	0.876	0.928	1.111	1.134
9	1.133	1.131	1.020	0.881	0.981	1.036	1.205	1.131	0.884	0.928	1.093	1.123
1	1.110	1.115	0.990	0.870	0.996	1.074	1.250	1.177	0.905	0.924	1.076	1.120
1	1.079	1.097	0.951	0.854	1.001	1.101	1.315	1.232	0.911	0.903	1.041	1.098
1	1.048	1.070	0.927	0.846	1.030	1.131	1.379	1.272	0.927	0.892	1.013	1.066
1	1.020	1.053	0.906	0.842	1.040	1.148	1.403	1.297	0.936	0.883	0.989	1.054
1	1.004	1.032	0.884	0.831	1.039	1.168	1.451	1.332	0.943	0.873	0.973	1.038
1	0.987	1.012	0.864	0.820	1.051	1.184	1.480	1.373	0.957	0.860	0.956	1.033
1	0.995	1.017	0.861	0.823	1.061	1.205	1.498	1.395	0.973	0.857	0.966	1.061
1	1.040	1.041	0.854	0.818	1.062	1.212	1.503	1.401	0.983	0.858	1.023	1.102
1	1.070	1.083	0.855	0.816	1.057	1.200	1.507	1.385	0.976	0.867	1.045	1.109
1	1.081	1.090	0.860	0.823	1.038	1.180	1.475	1.357	0.960	0.889	1.034	1.095
2	1.065	1.074	0.891	0.837	1.012	1.160	1.447	1.329	0.960	0.895	1.023	1.084
2	1.044	1.047	0.890	0.833	1.017	1.129	1.393	1.282	0.919	0.849	0.991	1.067
2	0.989	1.004	0.852	0.793	0.965	1.088	1.338	1.218	0.858	0.806	0.969	1.032
2	0.944	0.973	0.827	0.749	0.900	1.028	1.242	1.138	0.805	0.770	0.931	0.993

Table 5 – Distribution Capacity Value--Winter Peaking 12x24 matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.123	1.084	0.930	0.741	0.708	0.758	0.867	0.855	0.719	0.855	1.062	1.135
1	1.114	1.073	0.921	0.724	0.681	0.723	0.813	0.812	0.689	0.844	1.049	1.127
2	1.106	1.074	0.939	0.729	0.669	0.705	0.789	0.787	0.675	0.843	1.044	1.120
3	1.112	1.077	0.958	0.737	0.660	0.695	0.761	0.768	0.671	0.849	1.050	1.122
4	1.133	1.092	0.977	0.756	0.668	0.692	0.759	0.769	0.688	0.872	1.071	1.136
5	1.174	1.122	1.020	0.802	0.701	0.717	0.767	0.787	0.719	0.910	1.117	1.172
6	1.260	1.210	1.111	0.878	0.771	0.768	0.804	0.831	0.781	0.995	1.204	1.234
7	1.343	1.289	1.209	0.959	0.812	0.807	0.850	0.860	0.840	1.066	1.283	1.302
8	1.375	1.319	1.240	0.956	0.846	0.844	0.900	0.914	0.871	1.103	1.309	1.345
9	1.369	1.302	1.170	0.951	0.860	0.870	0.949	0.945	0.884	1.099	1.280	1.337
10	1.315	1.251	1.096	0.920	0.868	0.892	0.993	0.976	0.880	1.067	1.249	1.315
11	1.261	1.217	1.053	0.890	0.864	0.902	1.041	1.008	0.888	1.043	1.215	1.279
12	1.172	1.158	0.976	0.857	0.860	0.915	1.071	1.041	0.886	1.005	1.160	1.252
13	1.124	1.121	0.939	0.852	0.865	0.927	1.103	1.066	0.900	0.983	1.141	1.208
14	1.088	1.105	0.915	0.836	0.864	0.940	1.135	1.095	0.902	0.962	1.111	1.172
15	1.079	1.090	0.885	0.823	0.861	0.952	1.163	1.119	0.886	0.947	1.109	1.180
16	1.091	1.127	0.890	0.821	0.862	0.970	1.195	1.148	0.900	0.952	1.124	1.216
17	1.160	1.154	0.898	0.826	0.864	0.979	1.219	1.155	0.907	0.962	1.184	1.287
18	1.267	1.207	0.915	0.855	0.868	0.990	1.220	1.164	0.920	0.984	1.236	1.325
19	1.270	1.208	0.922	0.854	0.845	0.959	1.182	1.131	0.898	1.008	1.213	1.301
20	1.267	1.213	0.968	0.864	0.845	0.933	1.146	1.095	0.918	1.009	1.202	1.284
21	1.249	1.197	0.962	0.882	0.860	0.911	1.100	1.058	0.892	0.984	1.171	1.260
22	1.199	1.154	0.942	0.832	0.820	0.894	1.049	0.991	0.829	0.937	1.130	1.221
23	1.157	1.120	0.932	0.776	0.764	0.819	0.953	0.905	0.762	0.888	1.090	1.171

The summer peaking matrix demonstrates that the most valuable resource to a summer peaking transformer would generate in July between the 18:00 and 21:00, typically when air conditioning load coupled with irrigation load causes stress on the system during the late evening hours of July.

The winter peaking matrix shows a typical winter load shape with a double peak, one in the early hours of the day, around 8:00, and a late peak, around 19:00. Given that the transformers with winter peak loads also have summer peak loads, it can be seen that there is also a smaller peak during the month of July at around 19:00.

As seen in the two matrices, a summer peaking transformer has different loading characteristics than a winter peaking transformer. Applying a summer load shape to a winter peaking transformer will not defer the upgrade of the transformer, nor will applying a winter load shape help defer the upgrade of a summer peaking transformer. Each transformer has its individual needs, which the Company has recognized through two different seasonal shapes as shown. Eventually, having a 12x24 matrix for each transformer may be more desirable given that each transformer has a unique loading characteristic based on its load and location, but an initial two-season matrix was the appropriate first step.

The Company's March 18, 2019, RVOS filing calculated the combined T&D capacity value of \$6.03 per MWh. The distribution portion of this amount was \$1.77 per MWh, prorating based on the relative deferral values of \$12.99 per kW-year for distribution and \$31.25 per kW-year for transmission. The following tables use the distribution price per MWh of \$1.77 and the

12x24 matrices above to illustrate the impacts of the pricing matrix on distribution capacity value (in \$ per MWh):

Table 6 – Distribution Capacity Summer-peaking resources-pricing (in dollars per

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.64	1.68	1.46	1.27	1.52	1.70	2.01	1.91	1.34	1.32	1.60	1.70
1	1.64	1.65	1.44	1.25	1.46	1.61	1.92	1.85	1.30	1.30	1.60	1.69
2	1.64	1.65	1.42	1.23	1.43	1.59	1.87	1.80	1.28	1.30	1.59	1.67
3	1.64	1.65	1.45	1.23	1.42	1.56	1.84	1.75	1.28	1.30	1.61	1.67
4	1.69	1.69	1.48	1.27	1.43	1.58	1.82	1.75	1.29	1.33	1.64	1.71
5	1.76	1.76	1.57	1.34	1.50	1.60	1.82	1.76	1.32	1.40	1.70	1.77
6	1.90	1.89	1.73	1.47	1.59	1.64	1.86	1.84	1.45	1.53	1.83	1.90
7	1.99	1.99	1.84	1.56	1.66	1.71	1.96	1.88	1.52	1.64	1.93	1.97
8	2.03	2.00	1.86	1.58	1.71	1.76	2.05	1.94	1.55	1.64	1.97	2.01
9	2.00	2.00	1.80	1.56	1.74	1.83	2.13	2.00	1.57	1.64	1.93	1.99
10	1.96	1.97	1.75	1.54	1.76	1.90	2.21	2.08	1.60	1.64	1.90	1.98
11	1.91	1.94	1.68	1.51	1.77	1.95	2.33	2.18	1.61	1.60	1.84	1.94
12	1.86	1.89	1.64	1.50	1.82	2.00	2.44	2.25	1.64	1.58	1.79	1.89
13	1.81	1.86	1.60	1.49	1.84	2.03	2.48	2.30	1.66	1.56	1.75	1.87
14	1.78	1.83	1.56	1.47	1.84	2.07	2.57	2.36	1.67	1.55	1.72	1.84
15	1.75	1.79	1.53	1.45	1.86	2.09	2.62	2.43	1.69	1.52	1.69	1.83
16	1.76	1.80	1.52	1.46	1.88	2.13	2.65	2.47	1.72	1.52	1.71	1.88
17	1.84	1.84	1.51	1.45	1.88	2.15	2.66	2.48	1.74	1.52	1.81	1.95
18	1.89	1.92	1.51	1.44	1.87	2.12	2.67	2.45	1.73	1.53	1.85	1.96
19	1.91	1.93	1.52	1.46	1.84	2.09	2.61	2.40	1.70	1.57	1.83	1.94
20	1.88	1.90	1.58	1.48	1.79	2.05	2.56	2.35	1.70	1.58	1.81	1.92
21	1.85	1.85	1.58	1.47	1.80	2.00	2.47	2.27	1.63	1.50	1.75	1.89
22	1.75	1.78	1.51	1.40	1.71	1.93	2.37	2.16	1.52	1.43	1.72	1.83
23	1.67	1.72	1.46	1.33	1.59	1.82	2.20	2.02	1.43	1.36	1.65	1.76

Table 7: Distribution Capacity - Winter-peaking resources-pricing (in dollars per

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.99	1.92	1.65	1.31	1.25	1.34	1.53	1.51	1.27	1.51	1.88	2.01
1	1.97	1.90	1.63	1.28	1.21	1.28	1.44	1.44	1.22	1.49	1.86	1.99
2	1.96	1.90	1.66	1.29	1.18	1.25	1.40	1.39	1.20	1.49	1.85	1.98
3	1.97	1.91	1.70	1.30	1.17	1.23	1.35	1.36	1.19	1.50	1.86	1.99
4	2.01	1.93	1.73	1.34	1.18	1.22	1.34	1.36	1.22	1.54	1.90	2.01
5	2.08	1.99	1.81	1.42	1.24	1.27	1.36	1.39	1.27	1.61	1.98	2.07
6	2.23	2.14	1.97	1.55	1.36	1.36	1.42	1.47	1.38	1.76	2.13	2.18
7	2.38	2.28	2.14	1.70	1.44	1.43	1.50	1.52	1.49	1.89	2.27	2.31
8	2.43	2.33	2.20	1.69	1.50	1.49	1.59	1.62	1.54	1.95	2.32	2.38
9	2.42	2.30	2.07	1.68	1.52	1.54	1.68	1.67	1.57	1.95	2.27	2.37
10	2.33	2.21	1.94	1.63	1.54	1.58	1.76	1.73	1.56	1.89	2.21	2.33
11	2.23	2.15	1.86	1.58	1.53	1.60	1.84	1.78	1.57	1.85	2.15	2.26
12	2.07	2.05	1.73	1.52	1.52	1.62	1.90	1.84	1.57	1.78	2.05	2.22
13	1.99	1.98	1.66	1.51	1.53	1.64	1.95	1.89	1.59	1.74	2.02	2.14
14	1.93	1.96	1.62	1.48	1.53	1.66	2.01	1.94	1.60	1.70	1.97	2.07
15	1.91	1.93	1.57	1.46	1.52	1.68	2.06	1.98	1.57	1.68	1.96	2.09
16	1.93	1.99	1.58	1.45	1.53	1.72	2.12	2.03	1.59	1.68	1.99	2.15
17	2.05	2.04	1.59	1.46	1.53	1.73	2.16	2.04	1.61	1.70	2.10	2.28
18	2.24	2.14	1.62	1.51	1.54	1.75	2.16	2.06	1.63	1.74	2.19	2.35
19	2.25	2.14	1.63	1.51	1.50	1.70	2.09	2.00	1.59	1.78	2.15	2.30

Table 7: Distribution Capacity - Winter-peaking resources-pricing (in dollars per

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20	2.24	2.15	1.71	1.53	1.50	1.65	2.03	1.94	1.62	1.79	2.13	2.27
21	2.21	2.12	1.70	1.56	1.52	1.61	1.95	1.87	1.58	1.74	2.07	2.23
22	2.12	2.04	1.67	1.47	1.45	1.58	1.86	1.75	1.47	1.66	2.00	2.16
23	2.05	1.98	1.65	1.37	1.35	1.45	1.69	1.60	1.35	1.57	1.93	2.07

With regard to transmission, the Company would like to reiterate its position that the deferred transmission value for its Oregon RVOS should be \$0.00. With respect to new solar facilities, the Company's system in Oregon is winter peaking (at approximately 8 a.m.) and with the lack of sunlight a new solar resource would not be able to meaningfully decrease the Oregon system peak and defer any transmission investment. With regard to non-solar resources, the Company already purchases a relatively large amount of generation from facilities sited in Oregon relative to retail Oregon load. In total, the Company purchases the output of 240 MW nameplate capacity of third-party generation, mostly intermittent, relative to an average load of 77 MW (calendar year 2018). Given these values, the addition of new intermittent resources located in Oregon would not defer any transmission investment, but rather would likely result in the need for incremental transmission investment. However, to comply with the Commission's order, the Company has left the transmission deferral value of \$31.25 / kW-year unchanged from its March 18, 2019, compliance filing.

The Company assigned values to the 12x24 matrix based on Oregon net load, by combining a 12x24 matrix of the annual output of the intermittent generation resources with a 12x24 matrix totaling the load of all transformers serving load in Oregon. All of the negative elements in the matrix were set to a fixed non-zero value, and the matrix was converted to the scalar matrix below based on the relative values in the net load matrix. This method is necessary given the unique characteristics of Idaho Power's Oregon transmission system. Given the high ratio of intermittent generation to retail load, the potentially negative impact to the Company's system is less when load relative to intermittent generation is higher. Therefore, this method sends the appropriate signal to new projects by assigning transmission value to time periods that will be least likely to result in increased transmission cost.

Table 8 – Transmission Capacity Value 12x24 matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0	0.500	0.500	3.895	0.500	0.500	0.500	0.500	0.500	0.500	0.500	1.476	5.895	0.500
1	0.500	0.500	4.325	0.500	0.500	0.500	0.500	0.500	0.500	0.500	2.755	3.576	0.500
2	2.111	0.500	3.672	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	2.839	0.500
3	0.500	0.500	4.202	0.500	0.500	0.500	0.500	0.500	0.500	0.500	2.460	0.500	0.500
4	0.500	0.500	2.120	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.342	0.500	0.500
5	0.500	0.500	1.380	0.500	0.500	0.500	0.500	0.500	0.500	0.500	4.381	0.500	0.500
6	1.803	0.500	1.762	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.937	0.160	0.500
7	0.500	0.500	5.132	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.693	0.290	0.500
8	0.500	0.500	2.519	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.812	0.500	0.500
9	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
10	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
11	0.500	0.500	0.500	0.500	0.500	0.500	0.101	0.500	0.500	0.500	0.500	0.500	0.500
12	0.500	0.500	0.500	0.500	0.500	0.500	1.525	0.418	0.500	0.500	0.500	0.500	0.500
13	0.500	0.500	0.500	0.500	0.500	0.500	0.511	3.093	0.500	0.500	0.500	0.500	0.500
14	0.500	0.500	0.500	0.500	0.500	0.500	2.680	4.975	0.500	0.500	0.500	0.500	0.500

Table 8 – Transmission Capacity Value 12x24 matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
15	0.500	0.500	0.500	0.500	0.500	0.500	4.684	4.345	0.500	0.500	0.500	0.500
16	0.500	0.500	0.500	0.500	0.500	0.500	3.921	2.957	0.500	0.500	0.500	0.500
17	0.500	0.500	0.500	0.500	0.500	0.500	0.520	0.108	0.500	0.500	0.500	0.500
18	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
19	0.500	0.500	4.976	0.500	0.500	0.500	0.500	0.500	0.500	3.165	3.618	0.500
20	0.500	0.500	8.585	0.500	0.500	0.500	0.500	0.500	0.500	5.238	2.648	0.500
21	0.500	0.500	4.899	0.500	0.500	0.500	0.500	0.500	0.500	5.183	1.762	0.500
22	0.500	0.500	3.606	0.500	0.500	0.500	0.500	0.500	0.500	4.739	1.132	0.500
23	0.500	0.500	2.563	0.500	0.500	0.500	0.500	0.500	0.500	3.582	5.004	0.500

The Company's March 18, 2019, RVOS filing calculated the combined T&D capacity value of \$6.03 per MWh. The transmission portion of this amount was \$4.26 per MWh, prorating based on the relative deferral values of \$12.99 per kW-year for distribution and \$31.25 per kW-year for transmission. The following tables use the transmission price per MWh of \$4.26 and the 12x24 matrices above to illustrate the impacts of the pricing matrix on distribution capacity value (in \$ per MWh):

Table 9 – Transmission Capacity pricing (in dollars per MWh)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2.13	2.13	16.59	2.13	2.13	2.13	2.13	2.13	2.13	6.29	25.11	2.13
1	2.13	2.13	18.42	2.13	2.13	2.13	2.13	2.13	2.13	11.74	15.23	2.13
2	8.99	2.13	15.64	2.13	2.13	2.13	2.13	2.13	2.13	2.13	12.09	2.13
3	2.13	2.13	17.90	2.13	2.13	2.13	2.13	2.13	2.13	10.48	2.13	2.13
4	2.13	2.13	9.03	2.13	2.13	2.13	2.13	2.13	2.13	22.76	2.13	2.13
5	2.13	2.13	5.88	2.13	2.13	2.13	2.13	2.13	2.13	18.66	2.13	2.13
6	7.68	2.13	7.51	2.13	2.13	2.13	2.13	2.13	2.13	25.29	0.68	2.13
7	2.13	2.13	21.86	2.13	2.13	2.13	2.13	2.13	2.13	24.25	1.24	2.13
8	2.13	2.13	10.73	2.13	2.13	2.13	2.13	2.13	2.13	24.76	2.13	2.13
9	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
10	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
11	2.13	2.13	2.13	2.13	2.13	2.13	0.43	2.13	2.13	2.13	2.13	2.13
12	2.13	2.13	2.13	2.13	2.13	2.13	6.49	1.78	2.13	2.13	2.13	2.13
13	2.13	2.13	2.13	2.13	2.13	2.13	2.18	13.18	2.13	2.13	2.13	2.13
14	2.13	2.13	2.13	2.13	2.13	2.13	11.42	21.19	2.13	2.13	2.13	2.13
15	2.13	2.13	2.13	2.13	2.13	2.13	19.95	18.51	2.13	2.13	2.13	2.13
16	2.13	2.13	2.13	2.13	2.13	2.13	16.70	12.60	2.13	2.13	2.13	2.13
17	2.13	2.13	2.13	2.13	2.13	2.13	2.21	0.46	2.13	2.13	2.13	2.13
18	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
19	2.13	2.13	21.20	2.13	2.13	2.13	2.13	2.13	2.13	13.48	15.41	2.13
20	2.13	2.13	36.57	2.13	2.13	2.13	2.13	2.13	2.13	22.32	11.28	2.13
21	2.13	2.13	20.87	2.13	2.13	2.13	2.13	2.13	2.13	22.08	7.51	2.13
22	2.13	2.13	15.36	2.13	2.13	2.13	2.13	2.13	2.13	20.19	4.82	2.13
23	2.13	2.13	10.92	2.13	2.13	2.13	2.13	2.13	2.13	15.26	21.32	2.13

T&D LOCATIONAL CAPACITY DEFERRAL VALUE

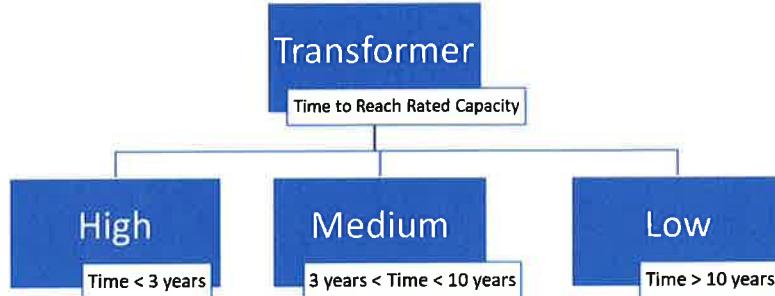
Idaho Power also has developed a methodology to determine locational pricing for T&D capacity deferrals. As discussed above, there are currently no transmission-related projects in

Oregon that the Company believes could be deferred through the use of sited generation. Therefore, this discussion focuses on the ability to defer distribution-related investments.

The Company's locational capacity deferral value analysis was focused on substation transformers, given that these assets are usually the limiting factor in a distribution system. The Company collected data for each of the 30 substation transformers that serve load in Oregon including:

- Transformer name
- Rated capacity
- Peak load
- Growth rate

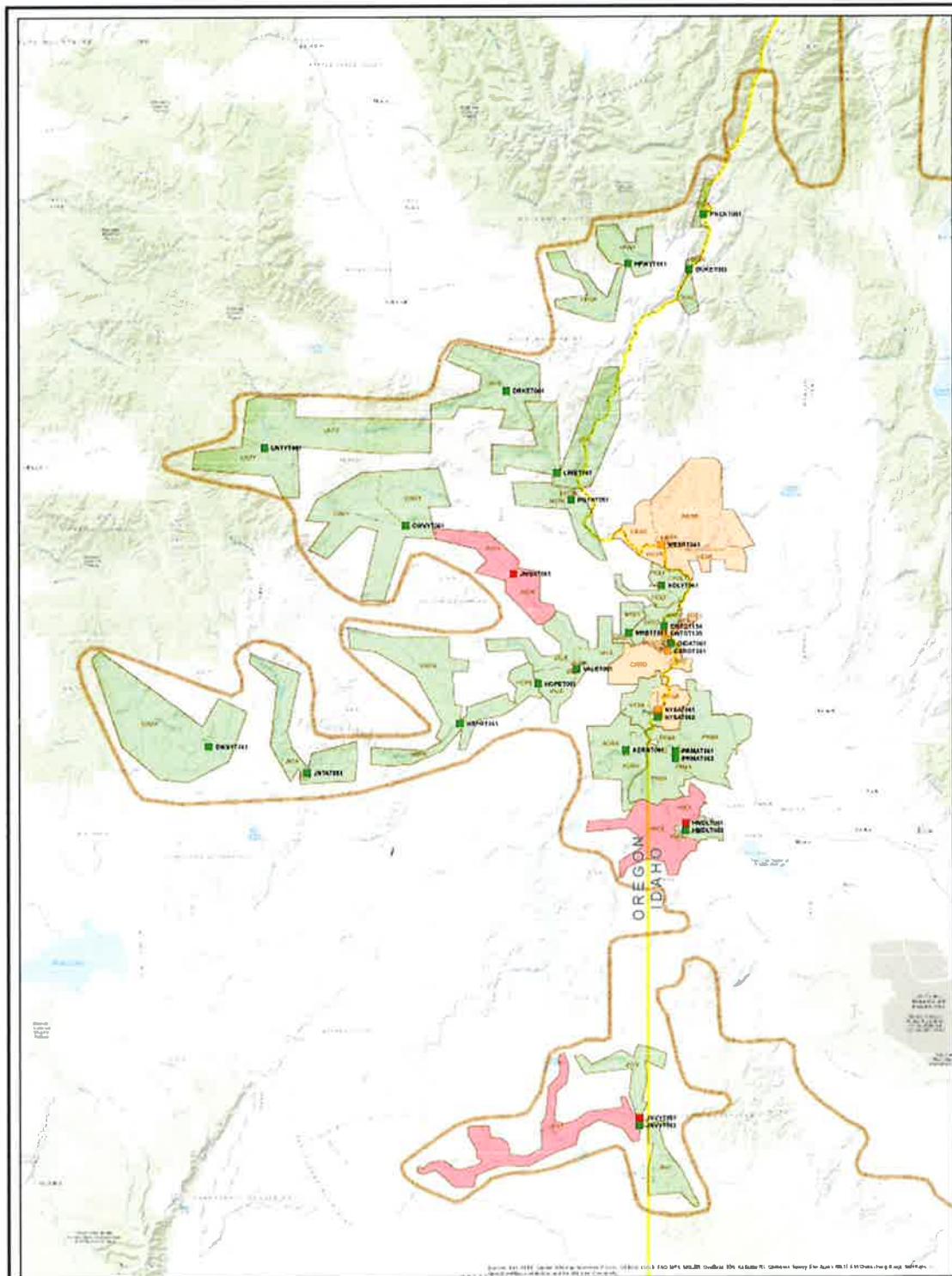
The number of years needed to reach the rated capacity of each transformer was calculated using the transformer rated capacity, the transformer peak load, and the transformer load growth rate. Each transformer was given the label of high-, medium- or low-value depending on the number of years before each reaches its rated capacity, as follows:



The results of the transformer-by-transformer analysis are shown in the table below.

Transformer	Summer Planning Capacity Limit (MW)	Summer Peak Load (MW)	Summer Growth Rate	Winter Planning Capacity Limit (MW)	Winter Peak Load (MW)	Winter Growth Rate	Season	Overall Growth Rate	Years to 100%	H/M/L
CAROT061	19.60	18.29	1.65%	22.00	13.89	1.65%	Summer	1.65%	4.34	M
HMDLT061	13.72	9.34	1.86%	15.40	15.34	3.28%	Winter	3.28%	0.12	H
JMSNT061	4.90	4.62	3.85%	5.50	2.64	3.85%	Summer	3.85%	1.57	H
JNVYT061	1.97	1.96	1.01%	2.21	1.38	1.09%	Summer	1.01%	0.51	H
ONTOT135	36.58	34.30	1.01%	41.06	16.13	1.01%	Summer	1.01%	6.58	M
PRMAT062	33.32	22.15	2.45%	22.00	12.65	2.45%	Summer	2.45%	20.58	L
WESRT061	13.72	12.67	1.74%	15.40	11.12	1.74%	Summer	1.74%	4.76	M
HFWYT061	6.54	3.74	1.32%	7.34	5.95	0.80%	Winter	0.80%	29.16	L
HMDLT062	N/A	N/A	N/A	22.00	17.27	1.40%	Winter	1.40%	19.61	L
HOLYT061	9.19	7.19	2.06%	10.32	5.18	2.06%	Summer	2.06%	13.50	L
NYSAT061	13.72	11.94	1.93%	15.40	12.33	1.93%	Summer	1.93%	7.72	M
OIDAT061	27.44	22.81	0.50%	30.80	22.90	0.50%	Summer	0.50%	40.60	L
ONTOT134	29.40	22.28	2.15%	33.00	20.53	2.15%	Summer	2.15%	14.86	L
VALET061	13.72	11.36	1.77%	15.40	10.28	1.77%	Summer	1.77%	11.74	L
ADRNT061	10.29	4.44	1.23%	11.55	4.82	0.93%	Summer	1.23%	107.18	L
CWVYT061	3.43	2.21	0.76%	3.85	2.18	0.00%	Summer	0.76%	72.44	L
DRKET061	0.97	0.41	2.28%	1.09	0.50	2.28%	Winter	2.28%	51.75	L
DUKET061	5.64	0.11	0.00%	6.34	0.10	0.00%	Summer	0.00%	-	L
DWSYT061	0.97	0.44	0.37%	1.09	0.55	0.37%	Winter	0.37%	265.36	L
HGTNT061	3.43	0.94	3.43%	3.85	0.91	3.43%	Summer	3.43%	77.23	L
HOPET061	6.54	3.36	0.25%	7.34	2.59	1.08%	Summer	0.25%	374.30	L
HRPRT061	3.43	1.39	0.61%	3.85	1.86	0.00%	Winter	0.00%	-	L
JNTAT061	0.65	0.22	0.00%	0.73	0.41	0.00%	Winter	0.00%	-	L
JNVYT062	1.47	0.55	1.60%	1.65	0.63	1.34%	Winter	1.34%	120.82	L
LIMET061	3.43	0.32	0.00%	3.85	0.30	0.00%	Summer	0.00%	-	L
MRBTT061	10.29	6.41	0.33%	11.55	3.19	0.40%	Summer	0.33%	182.61	L
NYSAT062	13.72	8.36	3.22%	15.40	5.63	3.22%	Summer	3.22%	19.91	L
PNCKT061	1.47	0.52	1.85%	1.65	0.29	1.85%	Summer	1.85%	98.75	L
PRMAT061	13.72	7.33	1.95%	15.40	8.46	1.95%	Winter	1.95%	42.07	L
UNTYT061	3.43	1.68	4.16%	3.85	1.40	4.16%	Summer	4.16%	25.04	L

Based on these rankings, locational capacity deferral value would be assigned to those transformers that provide at least a medium deferral value. The magnitude and method of developing actual values, as well as the interaction between the locational values and the 12x24 transmission and distribution capacity matrix values will require additional analysis. The Company has discussed potential next steps with Commission Staff and looks forward to further collaboration to discuss how these temporal and locational values will be combined with other analyses performed within this docket to develop a meaningful and practical RVOS. A map of the Company's Oregon service territory showing the locational values is presented below:



Idaho Power Substation Transformers Deferral Potentials (UM-1911)



July 9, 2011



LINE LOSSES 12X24 BLOCKS

For the expression of line loss value on a 12x24 basis, the Company applied the transmission 12x24 matrix provided above in Table 8 to the calculated line loss value of \$2.33 per MWh from the Company's March 18, 2019, RVOS filing. As described in the transmission discussions above, the Company already purchases a relatively large amount of generation from facilities sited in Oregon relative to retail load. The addition of new intermittent resources in Oregon would not reduce line losses, but rather would likely result in additional line losses during times of excess generation as reflected in Table 8.

The following table uses the \$2.33 line loss value from the March 18, 2018, filing and the transmission 12x24 matrix in Table 8 to illustrate the impacts of the transmission 12x24 matrix on line loss value (in \$ per MWh):

Table 10 – Line loss pricing (in dollars per MWh)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.16	1.16	9.08	1.16	1.16	1.16	1.16	1.16	1.16	3.44	13.73	1.16
1	1.16	1.16	10.08	1.16	1.16	1.16	1.16	1.16	1.16	6.42	8.33	1.16
2	4.92	1.16	8.56	1.16	1.16	1.16	1.16	1.16	1.16	1.16	6.62	1.16
3	1.16	1.16	9.79	1.16	1.16	1.16	1.16	1.16	1.16	5.73	1.16	1.16
4	1.16	1.16	4.94	1.16	1.16	1.16	1.16	1.16	1.16	12.45	1.16	1.16
5	1.16	1.16	3.21	1.16	1.16	1.16	1.16	1.16	1.16	10.21	1.16	1.16
6	4.20	1.16	4.11	1.16	1.16	1.16	1.16	1.16	1.16	13.83	0.37	1.16
7	1.16	1.16	11.96	1.16	1.16	1.16	1.16	1.16	1.16	13.26	0.68	1.16
8	1.16	1.16	5.87	1.16	1.16	1.16	1.16	1.16	1.16	13.54	1.16	1.16
9	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
10	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
11	1.16	1.16	1.16	1.16	1.16	1.16	0.23	1.16	1.16	1.16	1.16	1.16
12	1.16	1.16	1.16	1.16	1.16	1.16	3.55	0.97	1.16	1.16	1.16	1.16
13	1.16	1.16	1.16	1.16	1.16	1.16	1.19	7.21	1.16	1.16	1.16	1.16
14	1.16	1.16	1.16	1.16	1.16	1.16	6.24	11.59	1.16	1.16	1.16	1.16
15	1.16	1.16	1.16	1.16	1.16	1.16	10.91	10.12	1.16	1.16	1.16	1.16
16	1.16	1.16	1.16	1.16	1.16	1.16	9.14	6.89	1.16	1.16	1.16	1.16
17	1.16	1.16	1.16	1.16	1.16	1.16	1.21	0.25	1.16	1.16	1.16	1.16
18	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
19	1.16	1.16	11.59	1.16	1.16	1.16	1.16	1.16	1.16	7.38	8.43	1.16
20	1.16	1.16	20.00	1.16	1.16	1.16	1.16	1.16	1.16	12.21	6.17	1.16
21	1.16	1.16	11.41	1.16	1.16	1.16	1.16	1.16	1.16	12.08	4.11	1.16
22	1.16	1.16	8.40	1.16	1.16	1.16	1.16	1.16	1.16	11.04	2.64	1.16
23	1.16	1.16	5.97	1.16	1.16	1.16	1.16	1.16	1.16	8.35	11.66	1.16

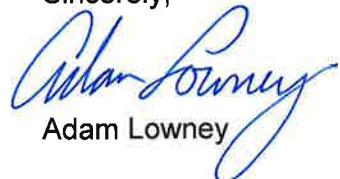
SUMMARY

As discussed above, in this compliance filing Idaho Power has provided the remaining information required by Order No. 19-022, addressing 12x24 RVOS blocks for generating capacity, T&D capacity and line losses, as well as providing information regarding the development of locational values of T&D capacity. The Company has described the methodology it used to calculate the 12x24 blocks, discussed how each 12x24 matrix reflects system need, and provided workpapers supporting the calculations. Idaho Power believes that the 12x24 blocks provided herein provide a reasonable representation of system needs and can

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be used as a basis to develop RVOS values that achieve the Commission's goal to establish a framework to express the quantifiable costs and benefits of bringing solar resources to the utility's system and its desire to develop more granular expressions of resource value, thus improving techniques for valuing resource benefits.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adam Lowney".

Adam Lowney

AL:csb
Enclosures

Loss of load probability table

From 2017 IRP

M	D	H	LOLP 2017	
1	1	1	0	0
2	1	1	1	0
3	1	1	2	0
4	1	1	3	0
5	1	1	4	0
6	1	1	5	0
7	1	1	6	0
8	1	1	7	0
9	1	1	8	0
10	1	1	9	0.000964
11	1	1	10	0
12	1	1	11	0
13	1	1	12	0
14	1	1	13	0
15	1	1	14	0
16	1	1	15	0
17	1	1	16	0
18	1	1	17	0
19	1	1	18	0.001929
20	1	1	19	0
21	1	1	20	0
22	1	1	21	0
23	1	1	22	0
24	1	1	23	0
25	1	2	0	0
26	1	2	1	0
27	1	2	2	0
28	1	2	3	0
29	1	2	4	0
30	1	2	5	0
31	1	2	6	0
32	1	2	7	0
33	1	2	8	0.002893
34	1	2	9	0.000964
35	1	2	10	0
36	1	2	11	0
37	1	2	12	0
38	1	2	13	0
39	1	2	14	0
40	1	2	15	0
41	1	2	16	0
42	1	2	17	0

43	1	2	18	0
44	1	2	19	0
45	1	2	20	0
46	1	2	21	0
47	1	2	22	0
48	1	2	23	0
49	1	3	0	0
50	1	3	1	0
51	1	3	2	0
52	1	3	3	0
53	1	3	4	0
54	1	3	5	0
55	1	3	6	0
56	1	3	7	0
57	1	3	8	0.000964
58	1	3	9	0.001929
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60	1	3	11	0
61	1	3	12	0
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74	1	4	1	0
75	1	4	2	0
76	1	4	3	0
77	1	4	4	0
78	1	4	5	0
79	1	4	6	0
80	1	4	7	0
81	1	4	8	0
82	1	4	9	0
83	1	4	10	0
84	1	4	11	0
85	1	4	12	0
86	1	4	13	0
87	1	4	14	0
88	1	4	15	0
89	1	4	16	0

90	1	4	17	0
91	1	4	18	0
92	1	4	19	0
93	1	4	20	0
94	1	4	21	0
95	1	4	22	0
96	1	4	23	0
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99	1	5	2	0
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101	1	5	4	0
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104	1	5	7	0
105	1	5	8	0
106	1	5	9	0
107	1	5	10	0
108	1	5	11	0
109	1	5	12	0
110	1	5	13	0
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125	1	6	4	0
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131	1	6	10	0
132	1	6	11	0
133	1	6	12	0
134	1	6	13	0
135	1	6	14	0
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139	1	6	18	0
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141	1	6	20	0
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143	1	6	22	0
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146	1	7	1	0
147	1	7	2	0
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151	1	7	6	0
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153	1	7	8	0
154	1	7	9	0
155	1	7	10	0
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161	1	7	16	0
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171	1	8	2	0
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178	1	8	9	0
179	1	8	10	0
180	1	8	11	0
181	1	8	12	0
182	1	8	13	0
183	1	8	14	0

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363	1	16	2	0
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386	1	17	1	0
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389	1	17	4	0
390	1	17	5	0
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413	1	18	4	0
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433	1	19	0	0
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435	1	19	2	0
436	1	19	3	0
437	1	19	4	0
438	1	19	5	0
439	1	19	6	0
440	1	19	7	0
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459	1	20	2	0
460	1	20	3	0
461	1	20	4	0
462	1	20	5	0
463	1	20	6	0
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8603	12	25	10	0
8604	12	25	11	0
8605	12	25	12	0
8606	12	25	13	0
8607	12	25	14	0
8608	12	25	15	0
8609	12	25	16	0
8610	12	25	17	0
8611	12	25	18	0
8612	12	25	19	0
8613	12	25	20	0
8614	12	25	21	0
8615	12	25	22	0
8616	12	25	23	0
8617	12	26	0	0
8618	12	26	1	0
8619	12	26	2	0
8620	12	26	3	0
8621	12	26	4	0
8622	12	26	5	0
8623	12	26	6	0
8624	12	26	7	0
8625	12	26	8	0
8626	12	26	9	0
8627	12	26	10	0
8628	12	26	11	0.000964
8629	12	26	12	0
8630	12	26	13	0
8631	12	26	14	0
8632	12	26	15	0
8633	12	26	16	0
8634	12	26	17	0
8635	12	26	18	0
8636	12	26	19	0
8637	12	26	20	0
8638	12	26	21	0
8639	12	26	22	0
8640	12	26	23	0
8641	12	27	0	0
8642	12	27	1	0
8643	12	27	2	0

8644	12	27	3	0
8645	12	27	4	0
8646	12	27	5	0
8647	12	27	6	0
8648	12	27	7	0
8649	12	27	8	0
8650	12	27	9	0
8651	12	27	10	0
8652	12	27	11	0
8653	12	27	12	0
8654	12	27	13	0
8655	12	27	14	0
8656	12	27	15	0
8657	12	27	16	0
8658	12	27	17	0
8659	12	27	18	0
8660	12	27	19	0
8661	12	27	20	0
8662	12	27	21	0
8663	12	27	22	0
8664	12	27	23	0
8665	12	28	0	0
8666	12	28	1	0
8667	12	28	2	0
8668	12	28	3	0
8669	12	28	4	0
8670	12	28	5	0
8671	12	28	6	0
8672	12	28	7	0
8673	12	28	8	0
8674	12	28	9	0
8675	12	28	10	0
8676	12	28	11	0
8677	12	28	12	0
8678	12	28	13	0
8679	12	28	14	0
8680	12	28	15	0
8681	12	28	16	0
8682	12	28	17	0
8683	12	28	18	0
8684	12	28	19	0
8685	12	28	20	0
8686	12	28	21	0
8687	12	28	22	0
8688	12	28	23	0
8689	12	29	0	0
8690	12	29	1	0

8691	12	29	2	0
8692	12	29	3	0
8693	12	29	4	0
8694	12	29	5	0
8695	12	29	6	0
8696	12	29	7	0
8697	12	29	8	0
8698	12	29	9	0
8699	12	29	10	0
8700	12	29	11	0
8701	12	29	12	0
8702	12	29	13	0
8703	12	29	14	0
8704	12	29	15	0
8705	12	29	16	0
8706	12	29	17	0
8707	12	29	18	0
8708	12	29	19	0
8709	12	29	20	0.000964
8710	12	29	21	0
8711	12	29	22	0
8712	12	29	23	0
8713	12	30	0	0
8714	12	30	1	0
8715	12	30	2	0
8716	12	30	3	0
8717	12	30	4	0
8718	12	30	5	0
8719	12	30	6	0
8720	12	30	7	0
8721	12	30	8	0
8722	12	30	9	0
8723	12	30	10	0
8724	12	30	11	0
8725	12	30	12	0
8726	12	30	13	0
8727	12	30	14	0
8728	12	30	15	0
8729	12	30	16	0
8730	12	30	17	0
8731	12	30	18	0
8732	12	30	19	0
8733	12	30	20	0
8734	12	30	21	0
8735	12	30	22	0
8736	12	30	23	0
8737	12	31	0	0

8738	12	31	1	0
8739	12	31	2	0
8740	12	31	3	0
8741	12	31	4	0
8742	12	31	5	0
8743	12	31	6	0
8744	12	31	7	0
8745	12	31	8	0
8746	12	31	9	0
8747	12	31	10	0
8748	12	31	11	0
8749	12	31	12	0
8750	12	31	13	0
8751	12	31	14	0
8752	12	31	15	0
8753	12	31	16	0
8754	12	31	17	0
8755	12	31	18	0
8756	12	31	19	0
8757	12	31	20	0
8758	12	31	21	0
8759	12	31	22	0
8760	12	31	23	0

Pivot table of the LOP data

Table 1 in the filing Also appears in the 2017 IRP

H	M												Grand Total
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.19%
5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	0.68%	0.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.16%
7	1.25%	2.60%	0.00%	0.00%	0.19%	0.00%	0.00%	0.00%	0.00%	0.10%	4.15%	0.00%	0.00%
8	2.41%	3.47%	0.00%	0.19%	0.19%	0.00%	0.00%	0.00%	0.00%	0.00%	6.27%	0.00%	0.00%
9	1.45%	2.51%	0.00%	0.10%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	4.15%	0.00%	0.00%
10	0.87%	0.00%	0.00%	0.39%	0.19%	0.00%	0.00%	0.10%	0.00%	0.00%	1.54%	0.00%	0.00%
11	0.77%	0.00%	0.00%	0.39%	0.00%	0.00%	0.39%	0.00%	0.10%	0.00%	0.00%	0.10%	1.74%
12	0.29%	0.00%	0.00%	0.39%	0.39%	0.19%	0.68%	0.00%	0.00%	0.00%	1.93%	0.00%	0.00%
Grand Total	13.69%	17.74%	0.10%	4.15%	3.76%	9.55%	39.15%	5.21%	5.98%	0.00%	0.00%	0.68%	100.00% Total

Conversion of the LOP Pivot Table Results to "instances" in the LOP data

LOP analysis included 500 runs of 8,760 hours. The amounts below are the total LOP instances by month-hour.
Easier to work with data in this format.

Value of one instance 0.00096432

Frequency distribution

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	2	-	-	-	-	-	-	-	-	-	2
5	-	-	-	-	-	-	-	-	-	-	-	-
6	7	5	-	-	-	-	-	-	-	-	-	12
7	13	27	-	-	2	-	-	-	-	-	1	43
8	25	36	-	2	2	-	-	-	-	-	-	65
9	15	26	-	1	-	-	-	-	1	-	-	43
10	9	-	-	4	2	-	-	-	1	-	-	16
11	8	-	-	4	-	-	4	-	1	-	-	18
12	3	-	-	4	4	2	7	-	-	-	-	20
142	184	1	43	39	99	406	54	62	-	-	7	1,037

Derivation of Scalar Values		
Tier	Count	Scalar Value
Equal to 0	183	0%
<= 2	40	200%
<= 10	38	267%
<= 20	12	333%
<= 40	11	400%
<= 55	1	467%
<= 75	1	533%
<= 85	1	600%
<= 95	1	667%
	288	288.00

Count of non-zero cells 105

Average (1/288) 0.3472%

Total IRP runs: 500

Average per run 2.074

Percentage scalar

Actual data for each cell divided by the average for all cells

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
1	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
2	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
3	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
4	55.545%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
5	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
6	194.407%	138.862%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
7	361.041%	749.855%	0.000%	0.000%	55.545%	0.000%	0.000%	0.000%	0.000%	0.000%	27.772%	0.000%
8	694.311%	998.807%	0.000%	55.545%	55.545%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
9	416.586%	722.083%	0.000%	27.772%	0.000%	0.000%	27.772%	0.000%	0.000%	0.000%	0.000%	0.000%
10	249.952%	0.000%	111.090%	55.545%	0.000%	0.000%	27.772%	0.000%	0.000%	0.000%	0.000%	0.000%
11	222.179%	0.000%	111.090%	0.000%	111.090%	0.000%	27.772%	0.000%	0.000%	0.000%	27.772%	0.000%
12	83.317%	0.000%	111.090%	111.090%	55.545%	194.407%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
13	27.772%	0.000%	27.772%	55.545%	27.772%	472.131%	0.000%	27.772%	0.000%	0.000%	0.000%	0.000%
14	27.772%	0.000%	55.545%	111.090%	138.862%	805.400%	55.545%	0.000%	0.000%	0.000%	0.000%	0.000%
15	0.000%	0.000%	83.317%	55.545%	277.724%	1527.483%	194.407%	166.635%	0.000%	0.000%	0.000%	0.000%
16	27.772%	0.000%	0.000%	138.862%	55.545%	305.497%</td						

2% Average (1/288)

2% Average (1/288)

Value of one instance	Out of 500 runs												For example, January hour zero - 500 runs x 31 hour zeros had no incidents out of 15,500 opportunities			
	Corresponding incidents															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total			
0.00096432	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	7	5	-	-	-	-	-	-	-	-	-	-	-	12	
	7	13	27	-	-	2	-	-	-	-	-	-	-	-	43	
	8	25	36	-	2	2	-	-	-	-	-	-	-	-	65	
	9	15	26	-	1	-	-	-	-	-	1	-	-	-	43	
	10	9	-	-	4	2	-	-	-	1	-	-	-	-	16	
	11	8	-	-	4	-	-	4	-	1	-	-	-	-	18	
	12	3	-	-	4	4	2	7	-	-	-	-	-	-	20	
	13	1	-	-	1	2	1	17	-	1	-	-	-	-	23	
	14	1	-	-	2	4	5	29	2	-	-	-	-	-	43	
	15	-	-	-	3	2	10	55	7	6	-	-	-	-	83	
	16	1	-	-	5	2	11	60	14	8	-	-	-	-	101	
	17	6	1	-	3	5	26	90	12	14	-	-	-	-	158	
	18	21	23	-	5	5	11	78	10	10	-	-	-	-	164	
	19	17	33	-	4	3	16	34	5	10	-	-	-	-	123	
	20	9	13	-	1	2	9	23	2	8	-	-	-	-	69	
	21	4	14	1	2	3	5	8	2	2	-	-	-	-	41	
	22	-	6	-	2	-	2	1	-	-	-	-	-	-	11	
	23	-	-	-	-	1	1	-	-	-	-	-	-	-	2	
0% Total		142	184	1	43	39	99	406	54	62	-	-	-	-	7	1,037

Total instances in all the runs 500×8760 hours = 4,380,000 hours

1027 LOLP

2.074

Percentage scalar **Actual data for each cell divided by the average for all cells**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1.94	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	3.61	7.50	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.28
8	6.94	10.00	0.00	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	4.17	7.22	0.00	0.28	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00
10	2.50	0.00	0.00	1.11	0.56	0.00	0.00	0.00	0.28	0.00	0.00	0.00
11	2.22	0.00	0.00	1.11	0.00	0.00	1.11	0.00	0.28	0.00	0.00	0.28
12	0.83	0.00	0.00	1.11	1.11	0.56	1.94	0.00	0.00	0.00	0.00	0.00
13	0.28	0.00	0.00	0.28	0.56	0.28	4.72	0.00	0.28	0.00	0.00	0.00
14	0.28	0.00	0.00	0.56	1.11	1.39	8.05	0.56	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.83	0.56	2.78	15.27	1.94	1.67	0.00	0.00	0.00
16	0.28	0.00	0.00	1.39	0.56	3.05	16.66	3.89	2.22	0.00	0.00	0.00
17	1.67	0.28	0.00	0.83	1.39	7.22	25.00	3.33	3.89	0.00	0.00	0.28
18	5.83	6.39	0.00	1.39	1.39	3.05	21.66	2.78	2.78	0.00	0.00	0.28
19	4.72	9.16	0.00	1.11	0.83	4.44	9.44	1.39	2.78	0.00	0.00	0.28
20	2.50	3.61	0.00	0.28	0.56	2.50	6.39	0.56	2.22	0.00	0.00	0.56
21	1.11	3.89	0.28	0.56	0.83	1.39	2.22	0.56	0.56	0.00	0.00	0.00
22	0.00	1.67	0.00	0.56	0.00	0.56	0.28	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00

Total	288.00
Average	1.00

Prices for this model												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	20.51	14.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	38.09	79.11	0.00	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	2.93
8	73.25	105.48	0.00	5.86	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	43.95	76.18	0.00	2.93	0.00	0.00	0.00	0.00	2.93	0.00	0.00	0.00
10	26.37	0.00	0.00	11.72	5.86	0.00	0.00	0.00	2.93	0.00	0.00	0.00
11	23.44	0.00	0.00	11.72	0.00	0.00	11.72	0.00	2.93	0.00	0.00	2.93
12	8.79	0.00	0.00	11.72	11.72	5.86	20.51	0.00	0.00	0.00	0.00	0.00
13	2.93	0.00	0.00	2.93	5.86	2.93	49.81	0.00	2.93	0.00	0.00	0.00
14	2.93	0.00	0.00	5.86	11.72	14.65	84.97	5.86	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	8.79	5.86	29.30	161.15	20.51	17.58	0.00	0.00	0.00
16	2.93	0.00	0.00	14.65	5.86	32.23	175.80	41.02	23.44	0.00	0.00	0.00
17	17.58	2.93	0.00	8.79	14.65	76.18	263.70	35.16	41.02	0.00	0.00	2.93
18	61.53	67.39	0.00	14.65	14.65	32.23	228.54	29.30	29.30	0.00	0.00	2.93
19	49.81	96.69	0.00	11.72	8.79	46.88	99.62	14.65	29.30	0.00	0.00	2.93
20	26.37	38.09	0.00	2.93	5.86	26.37	67.39	5.86	23.44	0.00	0.00	5.86
21	11.72	41.02	2.93	5.86	8.79	14.65	23.44	5.86	5.86	0.00	0.00	0.00
22	0.00	17.58	0.00	5.86	0.00	5.86	2.93	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	2.93	2.93	0.00	0.00	0.00	0.00	0.00	0.00

\$ 3,038.40 Total
\$ 10.55 Average

Table 8 - Transmission scalar - used for line losses

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.4997	0.4997	3.8953	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	1.4762	5.8947	0.4997
1	0.4997	0.4997	4.3248	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	2.7548	3.5755	0.4997
2	2.1106	0.4997	3.6718	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	2.8392	0.4997
3	0.4997	0.4997	4.2016	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	2.4603	0.4997	0.4997
4	0.4997	0.4997	2.1195	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.3424	0.4997	0.4997
5	0.4997	0.4997	1.3796	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	4.3810	0.4997	0.4997
6	1.8030	0.4997	1.7619	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.9370	0.1602	0.4997
7	0.4997	0.4997	5.1322	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.6928	0.2904	0.4997
8	0.4997	0.4997	2.5193	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.8116	0.4997	0.4997
9	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997
10	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997
11	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.1008	0.4997	0.4997	0.4997	0.4997
12	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	1.5245	0.4182	0.4997	0.4997	0.4997
13	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.5108	3.0933	0.4997	0.4997	0.4997	0.4997
14	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	2.6797	4.9753	0.4997	0.4997	0.4997	0.4997
15	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	4.6840	4.3447	0.4997	0.4997	0.4997	0.4997
16	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	3.9210	2.9571	0.4997	0.4997	0.4997	0.4997
17	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.5199	0.1081	0.4997	0.4997	0.4997	0.4997
18	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997
19	0.4997	0.4997	4.9755	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	3.1653	3.6177	0.4997
20	0.4997	0.4997	8.5847	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.2383	2.6484	0.4997
21	0.4997	0.4997	4.8986	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	5.1834	1.7623	0.4997
22	0.4997	0.4997	3.6062	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	4.7390	1.1321	0.4997
23	0.4997	0.4997	2.5632	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	3.5817	5.0038	0.4997

Line loss price per kWh \$ 2.33

Table 10 - Line Losses pricing in \$ per MWh

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.16	1.16	9.08	1.16	1.16	1.16	1.16	1.16	1.16	3.44	13.73	1.16
1	1.16	1.16	10.08	1.16	1.16	1.16	1.16	1.16	1.16	6.42	8.33	1.16
2	4.92	1.16	8.56	1.16	1.16	1.16	1.16	1.16	1.16	1.16	6.62	1.16
3	1.16	1.16	9.79	1.16	1.16	1.16	1.16	1.16	1.16	5.73	1.16	1.16
4	1.16	1.16	4.94	1.16	1.16	1.16	1.16	1.16	1.16	12.45	1.16	1.16
5	1.16	1.16	3.21	1.16	1.16	1.16	1.16	1.16	1.16	10.21	1.16	1.16
6	4.20	1.16	4.11	1.16	1.16	1.16	1.16	1.16	1.16	13.83	0.37	1.16
7	1.16	1.16	11.96	1.16	1.16	1.16	1.16	1.16	1.16	13.26	0.68	1.16
8	1.16	1.16	5.87	1.16	1.16	1.16	1.16	1.16	1.16	13.54	1.16	1.16
9	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
10	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
11	1.16	1.16	1.16	1.16	1.16	1.16	0.23	1.16	1.16	1.16	1.16	1.16
12	1.16	1.16	1.16	1.16	1.16	1.16	3.55	0.97	1.16	1.16	1.16	1.16
13	1.16	1.16	1.16	1.16	1.16	1.16	1.19	7.21	1.16	1.16	1.16	1.16
14	1.16	1.16	1.16	1.16	1.16	1.16	6.24	11.59	1.16	1.16	1.16	1.16
15	1.16	1.16	1.16	1.16	1.16	1.16	10.91	10.12	1.16	1.16	1.16	1.16
16	1.16	1.16	1.16	1.16	1.16	1.16	9.14	6.89	1.16	1.16	1.16	1.16
17	1.16	1.16	1.16	1.16	1.16	1.16	1.21	0.25	1.16	1.16	1.16	1.16
18	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
19	1.16	1.16	11.59	1.16	1.16	1.16	1.16	1.16	1.16	7.38	8.43	1.16
20	1.16	1.16	20.00	1.16	1.16	1.16	1.16	1.16	1.16	12.21	6.17	1.16
21	1.16	1.16	11.41	1.16	1.16	1.16	1.16	1.16	1.16	12.08	4.11	1.16
22	1.16	1.16	8.40	1.16	1.16	1.16	1.16	1.16	1.16	11.04	2.64	1.16
23	1.16	1.16	5.97	1.16	1.16	1.16	1.16	1.16	1.16	8.35	11.66	1.16

Summer distribution

System data - hourly percentages of annual totals

Table 4 - Distribution Summer peaking

Deferral value 12x24 pricing

Hourly percentages above, relative to the average.

1 Scalar

0.00347 Average

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.925	0.951	0.822	0.715	0.857	0.958	1.137	1.079	0.758	0.744	0.902	0.963
1	0.926	0.933	0.815	0.704	0.823	0.912	1.087	1.043	0.734	0.736	0.904	0.954
2	0.925	0.930	0.803	0.695	0.806	0.897	1.056	1.015	0.726	0.737	0.899	0.942
3	0.928	0.932	0.819	0.696	0.802	0.883	1.039	0.986	0.721	0.733	0.910	0.944
4	0.957	0.952	0.836	0.716	0.810	0.891	1.026	0.989	0.732	0.752	0.925	0.966
5	0.995	0.995	0.887	0.757	0.845	0.905	1.026	0.997	0.746	0.791	0.962	0.998
6	1.076	1.069	0.975	0.830	0.896	0.927	1.052	1.038	0.819	0.867	1.036	1.076
7	1.127	1.126	1.041	0.884	0.936	0.963	1.105	1.060	0.857	0.925	1.090	1.114
8	1.146	1.132	1.053	0.890	0.967	0.996	1.157	1.098	0.876	0.928	1.111	1.134
9	1.133	1.131	1.020	0.881	0.981	1.036	1.205	1.131	0.884	0.928	1.093	1.123
10	1.110	1.115	0.990	0.870	0.996	1.074	1.250	1.177	0.905	0.924	1.076	1.120
11	1.079	1.097	0.951	0.854	1.001	1.101	1.315	1.232	0.911	0.903	1.041	1.098
12	1.048	1.070	0.927	0.846	1.030	1.131	1.379	1.272	0.927	0.892	1.013	1.066
13	1.020	1.053	0.906	0.842	1.040	1.148	1.403	1.297	0.936	0.883	0.989	1.054
14	1.004	1.032	0.884	0.831	1.039	1.168	1.451	1.332	0.943	0.873	0.973	1.038
15	0.987	1.012	0.864	0.820	1.051	1.184	1.480	1.373	0.957	0.860	0.956	1.033
16	0.995	1.017	0.861	0.823	1.061	1.205	1.498	1.395	0.973	0.857	0.966	1.061
17	1.040	1.041	0.854	0.818	1.062	1.212	1.503	1.401	0.983	0.858	1.023	1.102
18	1.070	1.083	0.855	0.816	1.057	1.200	1.507	1.385	0.976	0.867	1.045	1.109
19	1.081	1.090	0.860	0.823	1.038	1.180	1.475	1.357	0.960	0.889	1.034	1.095
20	1.065	1.074	0.891	0.837	1.012	1.160	1.447	1.329	0.960	0.895	1.023	1.084
21	1.044	1.047	0.890	0.833	1.017	1.129	1.393	1.282	0.919	0.849	0.991	1.067
22	0.989	1.004	0.852	0.793	0.965	1.088	1.338	1.218	0.858	0.806	0.969	1.032
23	0.944	0.973	0.827	0.749	0.900	1.028	1.242	1.138	0.805	0.770	0.931	0.993

Table 6 - Distribution Summer peaking resource \$

Table 3 – Distribution Summer peaking Deferral value 12x24 pricing per MWh

Based on 3/18 filing Distribution per kWh price \$ 1.77

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.64	1.68	1.46	1.27	1.52	1.70	2.01	1.91	1.34	1.32	1.60	1.70
1	1.64	1.65	1.44	1.25	1.46	1.61	1.92	1.85	1.30	1.30	1.60	1.69
2	1.64	1.65	1.42	1.23	1.43	1.59	1.87	1.80	1.28	1.30	1.59	1.67
3	1.64	1.65	1.45	1.23	1.42	1.56	1.84	1.75	1.28	1.30	1.61	1.67
4	1.69	1.69	1.48	1.27	1.43	1.58	1.82	1.75	1.29	1.33	1.64	1.71
5	1.76	1.76	1.57	1.34	1.50	1.60	1.82	1.76	1.32	1.40	1.70	1.77
6	1.90	1.89	1.73	1.47	1.59	1.64	1.86	1.84	1.45	1.53	1.83	1.90
7	1.99	1.99	1.84	1.56	1.66	1.71	1.96	1.88	1.52	1.64	1.93	1.97
8	2.03	2.00	1.86	1.58	1.71	1.76	2.05	1.94	1.55	1.64	1.97	2.01
9	2.00	2.00	1.80	1.56	1.74	1.83	2.13	2.00	1.57	1.64	1.93	1.99
10	1.96	1.97	1.75	1.54	1.76	1.90	2.21	2.08	1.60	1.64	1.90	1.98
11	1.91	1.94	1.68	1.51	1.77	1.95	2.33	2.18	1.61	1.60	1.84	1.94
12	1.86	1.89	1.64	1.50	1.82	2.00	2.44	2.25	1.64	1.58	1.79	1.89
13	1.81	1.86	1.60	1.49	1.84	2.03	2.48	2.30	1.66	1.56	1.75	1.87
14	1.78	1.83	1.56	1.47	1.84	2.07	2.57	2.36	1.67	1.55	1.72	1.84
15	1.75	1.79	1.53	1.45	1.86	2.09	2.62	2.43	1.69	1.52	1.69	1.83
16	1.76	1.80	1.52	1.46	1.88	2.13	2.65	2.47	1.72	1.52	1.71	1.88
17	1.84	1.84	1.51	1.45	1.88	2.15	2.66	2.48	1.74	1.52	1.81	1.95
18	1.89	1.92	1.51	1.44	1.87	2.12	2.67	2.45	1.73	1.53	1.85	1.96
19	1.91	1.93	1.52	1.46	1.84	2.09	2.61	2.40	1.70	1.57	1.83	1.94
20	1.88	1.90	1.58	1.48	1.79	2.05	2.56	2.35	1.70	1.58	1.81	1.92
21	1.85	1.85	1.58	1.47	1.80	2.00	2.47	2.27	1.63	1.50	1.75	1.89
22	1.75	1.78	1.51	1.40	1.71	1.93	2.37	2.16	1.52	1.43	1.72	1.83
23	1.67	1.72	1.46	1.33	1.59	1.82	2.20	2.02	1.43	1.36	1.65	1.76

Winter distribution

System data - hourly percentages of annual totals

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0.0038982	0.0037638	0.0032297	0.0025746	0.0024588	0.0026309	0.0030110	0.0029678	0.0024964	0.0029701	0.0036890	0.0039399
1	0.0038678	0.0037266	0.0031992	0.0025134	0.0023647	0.0025095	0.0028222	0.0028179	0.0023939	0.0029306	0.0036422	0.0039129
2	0.0038400	0.0037294	0.0032591	0.0025298	0.0023231	0.0024477	0.0027411	0.0027330	0.0023450	0.0029283	0.0036242	0.0038885
3	0.0038606	0.0037387	0.0033262	0.0025590	0.0022918	0.0024146	0.0026438	0.0026673	0.0023303	0.0029468	0.0036455	0.0038954
4	0.0039349	0.0037904	0.0033923	0.0026235	0.0023208	0.0024027	0.0026341	0.0026688	0.0023898	0.0030289	0.0037185	0.0039437
5	0.0040771	0.0038954	0.0035434	0.0027850	0.0024324	0.0024880	0.0026642	0.0027324	0.0024958	0.0031612	0.0038780	0.0040691
6	0.0043739	0.0042024	0.0038561	0.0030490	0.0026756	0.0026671	0.0027934	0.0028858	0.0027110	0.0034564	0.0041805	0.0042843
7	0.0046642	0.0044759	0.0041984	0.0033303	0.0028206	0.0028029	0.0029500	0.0029865	0.0029169	0.0037028	0.0044553	0.0045220
8	0.0047741	0.0045795	0.0043060	0.0033187	0.0029388	0.0029318	0.0031233	0.0031752	0.0030257	0.0038309	0.0045464	0.0046697
9	0.0047550	0.0045201	0.0040639	0.0033006	0.0029860	0.0030199	0.0032950	0.0032822	0.0030704	0.0038176	0.0044436	0.0046415
10	0.0045675	0.0043431	0.0038048	0.0031953	0.0030134	0.0030973	0.0034472	0.0033897	0.0030569	0.0037059	0.0043365	0.0045651
11	0.0043788	0.0042257	0.0036558	0.0030918	0.0029989	0.0031319	0.0036136	0.0035001	0.0030831	0.0036209	0.0042182	0.0044422
12	0.0040688	0.0040195	0.0033901	0.0029757	0.0029850	0.0031768	0.0037204	0.0036145	0.0030754	0.0034880	0.0040270	0.0043473
13	0.0039035	0.0038917	0.0032621	0.0029584	0.0030037	0.0032204	0.0038301	0.0037031	0.0031254	0.0034118	0.0039614	0.0041943
14	0.0037776	0.0038361	0.0031764	0.0029012	0.0029995	0.0032640	0.0039419	0.0038013	0.0031307	0.0033397	0.0038580	0.0040704
15	0.0037482	0.0037861	0.0030716	0.0028589	0.0029886	0.0033042	0.0040377	0.0038863	0.0030764	0.0032870	0.0038494	0.0040983
16	0.0037886	0.0039116	0.0030920	0.0028490	0.0029947	0.0033666	0.0041493	0.0039870	0.0031263	0.0033048	0.0039031	0.0042224
17	0.0040294	0.0040068	0.0031195	0.0028681	0.0030011	0.0034007	0.0042321	0.0040096	0.0031499	0.0033402	0.0041106	0.0044685
18	0.0043995	0.0041909	0.0031766	0.0029692	0.0030154	0.0034360	0.0042370	0.0040401	0.0031932	0.0034164	0.0042926	0.0046008
19	0.0044086	0.0041945	0.0032016	0.0029650	0.0029340	0.0033300	0.0041044	0.0039281	0.0031189	0.0034995	0.0042104	0.0045190
20	0.0043992	0.0042128	0.0033620	0.0030002	0.0029351	0.0032379	0.0039803	0.0038022	0.0031874	0.0035031	0.0041753	0.0044597
21	0.0043366	0.0041559	0.0033417	0.0030616	0.0029845	0.0031629	0.0038187	0.0036727	0.0030966	0.0034178	0.0040670	0.0043762
22	0.0041615	0.0040053	0.0032696	0.0028904	0.0028470	0.0031041	0.0036438	0.0034417	0.0028789	0.0032541	0.0039246	0.0042412
23	0.0040175	0.0038880	0.0032355	0.0026950	0.0026516	0.0028424	0.0033095	0.0031416	0.0026456	0.0030824	0.0037853	0.0040668
	0.100031	0.097090	0.082534	0.069864	0.066965	0.071390	0.082744	0.080835	0.069120	0.080445	0.096543	0.102439
												1.000000
												0.003472222

Table 5 - Distribution Winter peaking

Deferral value 12x24 pricing

Hourly percentages above, relative to the average.

1

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1.12	1.08	0.93	0.74	0.71	0.76	0.87	0.85	0.72	0.86	1.06	1.13
1	1.11	1.07	0.92	0.72	0.68	0.72	0.81	0.81	0.69	0.84	1.05	1.13
2	1.11	1.07	0.94	0.73	0.67	0.70	0.79	0.79	0.68	0.84	1.04	1.12
3	1.11	1.08	0.96	0.74	0.66	0.70	0.76	0.77	0.67	0.85	1.05	1.12
4	1.13	1.09	0.98	0.76	0.67	0.69	0.76	0.77	0.69	0.87	1.07	1.14
5	1.17	1.12	1.02	0.80	0.70	0.72	0.77	0.79	0.72	0.91	1.12	1.17
6	1.26	1.21	1.11	0.88	0.77	0.77	0.80	0.83	0.78	1.00	1.20	1.23
7	1.34	1.29	1.21	0.96	0.81	0.81	0.85	0.86	0.84	1.07	1.28	1.30
8	1.37	1.32	1.24	0.96	0.85	0.84	0.84	0.90	0.91	1.10	1.31	1.34
9	1.37	1.30	1.17	0.95	0.86	0.87	0.95	0.95	0.88	1.10	1.28	1.34
10	1.32	1.25	1.10	0.92	0.87	0.89	0.99	0.98	0.88	1.07	1.25	1.31
11	1.26	1.22	1.05	0.89	0.86	0.90	1.04	1.01	0.89	1.04	1.21	1.28
12	1.17	1.16	0.98	0.86	0.86	0.91	1.07	1.04	0.89	1.00	1.16	1.25
13	1.12	1.12	0.94	0.85	0.87	0.93	1.10	1.07	0.90	0.98	1.14	1.21
14	1.09	1.10	0.91	0.84	0.86	0.94	1.14	1.09	0.90	0.96	1.11	1.17
15	1.08	1.09	0.88	0.82	0.86	0.95	1.16	1.12	0.89	0.95	1.11	1.18
16	1.09	1.13	0.89	0.82	0.86	0.97	1.19	1.15	0.90	0.95	1.12	1.22
17	1.16	1.15	0.90	0.83	0.86	0.98	1.22	1.15	0.91	0.96	1.18	

Table 10: Transmission Capacity

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0	0.500	0.500	3.895	0.500	0.500	0.500	0.500	0.500	0.500	1.476	5.895	0.500	15.763
1	0.500	0.500	4.325	0.500	0.500	0.500	0.500	0.500	0.500	2.755	3.576	0.500	15.152
2	2.111	0.500	3.672	0.500	0.500	0.500	0.500	0.500	0.500	0.500	2.839	0.500	13.119
3	0.500	0.500	4.202	0.500	0.500	0.500	0.500	0.500	0.500	2.460	0.500	0.500	11.659
4	0.500	0.500	2.120	0.500	0.500	0.500	0.500	0.500	0.500	5.342	0.500	0.500	12.459
5	0.500	0.500	1.380	0.500	0.500	0.500	0.500	0.500	0.500	4.381	0.500	0.500	10.758
6	1.803	0.500	1.762	0.500	0.500	0.500	0.500	0.500	0.500	5.937	0.160	0.500	13.660
7	0.500	0.500	5.132	0.500	0.500	0.500	0.500	0.500	0.500	5.693	0.290	0.500	15.613
8	0.500	0.500	2.519	0.500	0.500	0.500	0.500	0.500	0.500	5.812	0.500	0.500	13.328
9	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.996
10	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.996
11	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.597
12	0.500	0.500	0.500	0.500	0.500	0.500	0.500	1.525	0.418	0.500	0.500	0.500	6.940
13	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.511	3.093	0.500	0.500	0.500	8.601
14	0.500	0.500	0.500	0.500	0.500	0.500	0.500	2.680	4.975	0.500	0.500	0.500	12.652
15	0.500	0.500	0.500	0.500	0.500	0.500	0.500	4.684	4.345	0.500	0.500	0.500	14.026
16	0.500	0.500	0.500	0.500	0.500	0.500	0.500	3.921	2.957	0.500	0.500	0.500	11.875
17	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.520	0.108	0.500	0.500	0.500	5.625
18	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	5.996
19	0.500	0.500	4.976	0.500	0.500	0.500	0.500	0.500	0.500	3.165	3.618	0.500	16.256
20	0.500	0.500	8.585	0.500	0.500	0.500	0.500	0.500	0.500	5.238	2.648	0.500	20.969
21	0.500	0.500	4.899	0.500	0.500	0.500	0.500	0.500	0.500	5.183	1.762	0.500	16.342
22	0.500	0.500	3.606	0.500	0.500	0.500	0.500	0.500	0.500	4.739	1.132	0.500	13.975
23	0.500	0.500	2.563	0.500	0.500	0.500	0.500	0.500	0.500	3.582	5.004	0.500	15.646
	14.907	11.993	58.631	11.993	11.993	11.993	22.435	24.891	11.993	61.260	33.920	11.993	288.000

Transmission price from march 18 filing 4.260

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0	2.13	2.13	16.59	2.13	2.13	2.13	2.13	2.13	2.13	6.29	25.11	2.13	
1	2.13	2.13	18.42	2.13	2.13	2.13	2.13	2.13	2.13	11.74	15.23	2.13	
2	8.99	2.13	15.64	2.13	2.13	2.13	2.13	2.13	2.13	2.13	12.09	2.13	
3	2.13	2.13	17.90	2.13	2.13	2.13	2.13	2.13	2.13	10.48	2.13	2.13	
4	2.13	2.13	9.03	2.13	2.13	2.13	2.13	2.13	2.13	22.76	2.13	2.13	
5	2.13	2.13	5.88	2.13	2.13	2.13	2.13	2.13	2.13	18.66	2.13	2.13	
6	7.68	2.13	7.51	2.13	2.13	2.13	2.13	2.13	2.13	25.29	0.68	2.13	
7	2.13	2.13	21.86	2.13	2.13	2.13	2.13	2.13	2.13	24.25	1.24	2.13	
8	2.13	2.13	10.73	2.13	2.13	2.13	2.13	2.13	2.13	24.76	2.13	2.13	
9	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	
10	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	
11	2.13	2.13	2.13	2.13	2.13	2.13	0.43	2.13	2.13	2.13	2.13	2.13	
12	2.13	2.13	2.13	2.13	2.13	2.13	6.49	1.78	2.13	2.13	2.13	2.13	
13	2.13	2.13	2.13	2.13	2.13	2.13	2.18	13.18	2.13	2.13	2.13	2.13	
14	2.13	2.13	2.13	2.13	2.13	2.13	11.42	21.19	2.13	2.13	2.13	2.13	
15	2.13	2.13	2.13	2.13	2.13	2.13	19.95	18.51	2.13	2.13	2.13	2.13	
16	2.13	2.13	2.13	2.13	2.13	2.13	16.70	12.60	2.13	2.13	2.13	2.13	
17	2.13	2.13	2.13	2.13	2.13	2.13	2.21	0.46	2.13	2.13	2.13	2.13	
18	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	
19	2.13	2.13	21.20	2.13	2.13	2.13	2.13	2.13	2.13	13.48	15.41	2.13	
20	2.13	2.13	36.57	2.13	2.13	2.13	2.13	2.13	2.13	22.32	11.28	2.13	
21	2.13	2.13	20.87	2.13	2.13	2.13	2.13	2.13	2.13	22.08	7.51	2.13	
22	2.13	2.13	15.36	2.13	2.13	2.13	2.13	2.13	2.13	20.19	4.82	2.13	
23	2.13	2.13	10.92	2.13	2.13	2.13	2.13	2.13	2.13	15.26	21.32	2.13	