

Input on this tab under your respective utility the amounts of shaping capacity (in MW) for each month being considered, and for the amount believed to be possible. Similarly, you can increase or decrease the HLH/LLH shaping by inputting a value from 0.1 to 1.5 or so (you cannot go too high because there may not be enough LLH energy to take out of LLH and put into HLH). As an example, a value of 1.1 you place 10% more energy in HLH than LLH on an aMW basis.

Orange, Blue and Grey tabs are fixed inputs:

IRD **LDD_YR1** **LDD_YR2** Actual values for discount programs; only used when model is set to Actuals mode.

TRMbdActuals_TOCA inputs from RHEM process needed to calculate the load shaping true-up when the model is set to Actuals mode.

TRMbdForecast_TOCA **TRMbdForecast_TRL** **TRMbdForecast_NLSL** **TRMbdForecast_Tier1_Diurnal** **TRMbdForecast_LoadShp** **TRMbdForecast_CSP** **TRMbdForecast_Existing** **TRMbdForecast_CDQ**

**These take inputs from the TRMbd. If one wanted to assess the cost of switching to a different product, they could go to BPA.gov, download the TRMbd model from the BP-24 rate case Models and Datasets section, adjust the applicable values on the Init tab to change the customer assumption from Slice to Load Following, or block if removing slice but retaining Block by changing the Slice % to zero – but keeping Slice = 1, and set model Lock to “No”. Then paste over the values in the above sheets with the modified resulting inputs from TRMbd.

Actuals Rates **Forecast Rates** **TOCA_Actuals** These are rates from the RAM model for each respective rate case, with a couple of user inputs for the embedded cost of capacity assumption.

LSTU_22 **LSTU_23** These are actual calculations of the load shaping true-up.

ALF_TRLdata **BillingActual_CSP** **BillingActuals_Energy** **Billing totals** **BillingCDQ**
These are billing and ALF inputs for the Actuals mode.

PLVS This does the simple calculation of the PLVS rate. TRL amounts are live with the election for service (default is no block customers taking it); but the capacity assumption is not live yet.

StagingTRM **StagingPRDM** The aforementioned inputs are all fed into these two staging tables and used for the rate calculation in the model.

Rate Calculations

Status Quo this sheet calculates customer charges, load shaping, demand, and any true-ups or discounts to get at effective rates under the TRM rate construct. If the model is set to Forecast model, then these effective rates will match the status quo scenario calculations on the final report pages and customer dashboard. (see below)



these sheets perform the scenario based calculations for Status Quo and the four alternatives using a diurnal rate setting approach. They feed into the Effective Rates tab below.

Effective Rates

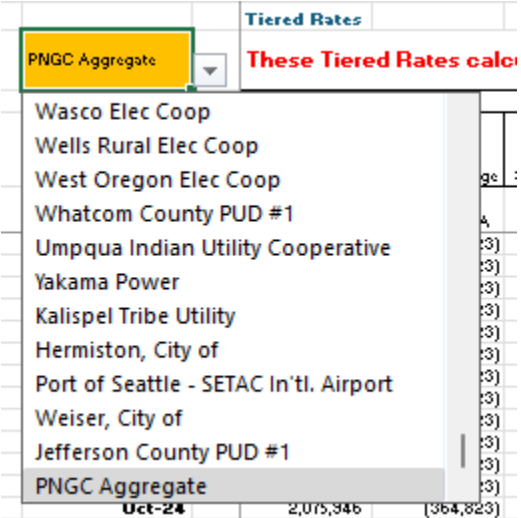
This tab is effectively the results tab and performs relevant ranking used in the graphs at the end of the model.

It is separates into Effective Rates (pink), Rate Impacts (deviation for each alternative from the Status Quo (orange), and the raking columns for sorting customers for the graphs (green and blue). Calculation for the true-up necessary to tie out to the TRM construct are in columns D through I. Column A shows red numbers for the deviation from effective rates on the Status Quo tab (described above).

CustomerDashboard

This is hopefully a very useful tab, because it will allow the customer to look at impacts with a greater degree of visibility.

First, select the customer you want to view:



Then look at:

Rate calculations under the TRM customer charges + load shaping are included in the first few columns. NOTE: the TRM – diurnal rates equivalency is dependent upon being in “Forecast” mode and having Status Quo selected in cell M3 and Demand Only is selected in cell N3.

Then there are two sets of columns, one with a right summary and another with a left summary.

Select the applicable values in the gold toggles to compare one scenario to another. The first toggle selects the scenario, and the second toggle sets rates with or without a PLVS program.

“Demand Only” is without PLVS, and “Demand plus PLVS” is with PLVS active.

Diurnal Energy Rates with Demand

Status Quo	Demand and	Impact RANK:	N/A				
Status Quo							
HLH	LLH	Demand	PLYS	LDD Discount	IRD Discount	Fixed Customer Charge	Tier 1 True-up
\$/Mwh	\$/Mwh	\$ per kW-Mo	\$/Mwh	%	\$/Mwh		\$/Mwh
37.84	23.04	10.37	2.019358	0.0671	(11.57)	-	3.87
30.43	21.52	8.75	2.019358	0.0671	(11.57)	-	3.87
51.76	42.82	13.39	2.019358	0.0671	(11.57)	-	3.87
40.01	26.86	10.84	2.019358	0.0671	(11.57)	-	3.87
40.45	32.14	10.93	2.019358	0.0671	(11.57)	-	3.87
25.20	25.97	7.62	2.019358	0.0671	(11.57)	-	3.87
10.55	11.80	4.43	2.019358	0.0671	(11.57)	-	3.87
8.34	6.47	3.95	2.019358	0.0671	(11.57)	-	3.87
8.00	0.46	3.88	2.019358	0.0671	(11.57)	-	3.87
45.73	27.05	12.08	2.019358	0.0671	(11.57)	-	3.87
61.65	39.06	15.54	2.019358	0.0671	(11.57)	-	3.87
48.83	34.31	12.75	2.019358	0.0671	(11.57)	-	3.87
37.84	23.04	10.37	2.019358	0.0675	(11.57)	-	3.87
30.43	21.52	8.75	2.019358	0.0675	(11.57)	-	3.87
51.76	42.82	13.39	2.019358	0.0675	(11.57)	-	3.87
40.01	26.86	10.84	2.019358	0.0675	(11.57)	-	3.87
40.45	32.14	10.93	2.019358	0.0675	(11.57)	-	3.87
25.20	25.97	7.62	2.019358	0.0675	(11.57)	-	3.87
10.55	11.80	4.43	2.019358	0.0675	(11.57)	-	3.87
8.34	6.47	3.95	2.019358	0.0675	(11.57)	-	3.87
8.00	0.46	3.88	2.019358	0.0675	(11.57)	-	3.87
45.73	27.05	12.08	2.019358	0.0675	(11.57)	-	3.87
61.65	39.06	15.54	2.019358	0.0675	(11.57)	-	3.87
48.83	34.31	12.75	2.019358	0.0675	(11.57)	-	3.87
Mwh	Mwh	kW	Mwh	\$	Mwh		Mwh
229,522	140,438	67,959	428,537	#####	-	369,960	0.00
267,902	179,026	95,746	503,457	#####	-	446,928	0.00
336,998	237,861	142,887	633,040	#####	-	574,860	0.00
345,945	233,429	100,746	637,499	#####	-	579,374	0.00
301,292	191,771	64,179	547,463	#####	-	493,063	0.00
276,969	181,726	100,260	516,582	(13,507,656)	-	458,695	0.00
243,446	148,433	118,400	449,920	(5,754,167)	-	391,878	0.00
224,148	144,821	125,472	432,578	(4,176,715)	28,852	368,970	0.00
237,928	145,296	94,970	444,717	(3,238,009)	52,076	383,224	0.00
261,430	162,238	132,261	485,643	(18,923,513)	62,311	423,669	0.00
260,612	145,620	132,096	466,257	(24,750,271)	46,467	406,232	0.00
214,264	143,412	89,905	413,970	(17,366,378)	28,776	357,676	0.00
234,628	134,961	78,329	433,072	(13,675,831)	-	369,590	0.00
268,187	178,939	97,644	508,410	(13,894,184)	-	447,126	0.00
337,671	237,999	144,383	638,756	#####	-	575,670	0.00
346,672	233,677	102,281	643,380	(22,556,711)	-	580,349	0.00

Vs.

Alternative 1	Demand and	Impact RANK:	51				
Alternative 1							
HLH	LLH	Demand	PLVS	LDD Discount	IRD Discount	Fixed Customer Charge	Tier 1 True-up
\$/MWh	\$/MWh	\$ per kW-Mo	\$/MWh	%	\$/MWh		\$/MWh
35.15	20.35	10.37	2.019358	0.0671	(11.57)	-	12.56
27.74	18.83	8.75	2.019358	0.0671	(11.57)	-	12.56
49.07	40.13	13.39	2.019358	0.0671	(11.57)	-	12.56
37.32	24.17	10.84	2.019358	0.0671	(11.57)	-	12.56
37.76	29.45	10.93	2.019358	0.0671	(11.57)	-	12.56
22.51	23.28	7.62	2.019358	0.0671	(11.57)	-	12.56
7.86	9.11	4.43	2.019358	0.0671	(11.57)	-	12.56
5.65	3.78	3.95	2.019358	0.0671	(11.57)	-	12.56
5.31	(2.23)	3.88	2.019358	0.0671	(11.57)	-	12.56
43.04	24.36	12.08	2.019358	0.0671	(11.57)	-	12.56
58.96	36.37	15.54	2.019358	0.0671	(11.57)	-	12.56
46.14	31.62	12.75	2.019358	0.0671	(11.57)	-	12.56
35.15	20.35	10.37	2.019358	0.0675	(11.57)	-	12.56
27.74	18.83	8.75	2.019358	0.0675	(11.57)	-	12.56
49.07	40.13	13.39	2.019358	0.0675	(11.57)	-	12.56
37.32	24.17	10.84	2.019358	0.0675	(11.57)	-	12.56
37.76	29.45	10.93	2.019358	0.0675	(11.57)	-	12.56
22.51	23.28	7.62	2.019358	0.0675	(11.57)	-	12.56
7.86	9.11	4.43	2.019358	0.0675	(11.57)	-	12.56
5.65	3.78	3.95	2.019358	0.0675	(11.57)	-	12.56
5.31	(2.23)	3.88	2.019358	0.0675	(11.57)	-	12.56
43.04	24.36	12.08	2.019358	0.0675	(11.57)	-	12.56
58.96	36.37	15.54	2.019358	0.0675	(11.57)	-	12.56
46.14	31.62	12.75	2.019358	0.0675	(11.57)	-	12.56

Charts and graphs for the selected customer show rate impacts and composition of revenues from the customer.

Bar Charts and Cash Flow

Alternative 1 Histogram | Alternative 2 Histogram | Alternative 3 Histogram | Alternative 4 Histogram | Alternative 1 Rank Order | Alternative 2 Rank Order | Alternativ

The remaining orange tabs provide graphics for evaluating the impacts across all customers.

Selection of call-out customer on the bar charts is governed by the utility selection on the CustomerDashboard tab.

Included are histograms of the rate impacts for each alternative relative to the Status Quo, bar charts showing the same impacts in order of lowest to highest impacted customers, bar charts showing the percent deviation from Status Quo for each alternative in order of smallest to largest customer, bar charts showing effective rates for each alternative in the lowest-to-highest impact, and cash flow proofs of equivalency (all scenarios collect the same revenue requirement).

Note for the graphs – all graphs by default assume PLVS; however, this option can be disabled by toggling the value in cell A1 on sheets:

Chart Data | Chart Data (MWh), where the former changes all charts other than the effective rate charts, and the latter changes the effective rate bar charts.