

# 2017 Cost Allocation Model

EB-2016-0091

## Sheet 01 Revenue to Cost Summary Worksheet -

**Instructions:**  
Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

Rate Base	Total	1 Residential	2 GS <50	3 GS>50-Regular	4 Cogeneration	5 Large Use >5MW	6 Street Light	7 Sentinel	8 Unmetered Scattered Load	9 Back-up/Standby Power	
<b>Assets</b>											
crev	Distribution Revenue at Existing Rates	\$64,663,382	\$40,918,450	\$8,759,543	\$12,230,278	\$396,619	\$620,353	\$1,176,630	\$46,919	\$135,545	\$379,043
mi	Miscellaneous Revenue (mi)	\$4,964,164	\$3,396,820	\$582,365	\$845,820	\$13,364	\$26,353	\$72,818	\$4,181	\$9,582	\$12,861
	<b>Miscellaneous Revenue Input equals Output</b>										
	<b>Total Revenue at Existing Rates</b>	<b>\$69,627,546</b>	<b>\$44,315,270</b>	<b>\$9,341,908</b>	<b>\$13,076,098</b>	<b>\$409,984</b>	<b>\$646,707</b>	<b>\$1,249,448</b>	<b>\$51,100</b>	<b>\$145,127</b>	<b>\$391,904</b>
	Factor required to recover deficiency (1 + D)	1.0534									
	Distribution Revenue at Status Quo Rates	\$68,117,121	\$43,103,948	\$9,227,400	\$12,883,510	\$417,803	\$653,487	\$1,239,475	\$49,425	\$142,785	\$399,288
	Miscellaneous Revenue (mi)	\$4,964,164	\$3,396,820	\$582,365	\$845,820	\$13,364	\$26,353	\$72,818	\$4,181	\$9,582	\$12,861
	<b>Total Revenue at Status Quo Rates</b>	<b>\$73,081,285</b>	<b>\$46,500,767</b>	<b>\$9,809,764</b>	<b>\$13,729,330</b>	<b>\$431,167</b>	<b>\$679,840</b>	<b>\$1,312,293</b>	<b>\$53,606</b>	<b>\$152,367</b>	<b>\$412,149</b>
<b>Expenses</b>											
di	Distribution Costs (di)	\$16,722,447	\$9,410,442	\$1,890,048	\$4,583,447	\$141,164	\$175,793	\$295,568	\$22,521	\$56,547	\$146,919
cu	Customer Related Costs (cu)	\$7,112,753	\$6,041,687	\$640,631	\$412,815	\$8,763	\$6,126	\$0	\$1,873	\$858	\$0
ad	General and Administration (ad)	\$15,258,030	\$9,856,488	\$1,621,672	\$3,224,153	\$96,595	\$117,142	\$194,111	\$15,836	\$37,398	\$94,634
dep	Depreciation and Amortization (dep)	\$17,278,391	\$10,490,949	\$1,842,296	\$4,213,781	\$127,096	\$150,196	\$256,342	\$22,299	\$56,092	\$119,341
INPUT	PILs (INPUT)	\$1,147,774	\$683,155	\$125,045	\$287,642	\$8,665	\$10,379	\$19,021	\$1,555	\$3,894	\$8,418
INT	Interest	\$4,846,420	\$2,884,588	\$527,995	\$1,214,554	\$36,589	\$43,826	\$80,314	\$6,566	\$16,443	\$35,545
	<b>Total Expenses</b>	<b>\$62,365,815</b>	<b>\$39,367,310</b>	<b>\$6,647,686</b>	<b>\$13,936,391</b>	<b>\$418,871</b>	<b>\$503,463</b>	<b>\$845,356</b>	<b>\$70,650</b>	<b>\$171,231</b>	<b>\$404,856</b>
<b>Direct Allocation</b>		\$3,770	\$0	\$0	\$0	\$0	\$3,770	\$0	\$0	\$0	
NI	Allocated Net Income (NI)	\$10,711,700	\$6,375,602	\$1,166,989	\$2,684,443	\$80,870	\$96,866	\$177,512	\$14,512	\$36,344	\$78,562
	<b>Revenue Requirement (includes NI)</b>	<b>\$73,081,285</b>	<b>\$45,742,912</b>	<b>\$7,814,675</b>	<b>\$16,620,834</b>	<b>\$499,741</b>	<b>\$600,329</b>	<b>\$1,026,638</b>	<b>\$85,162</b>	<b>\$207,575</b>	<b>\$483,418</b>
	<b>Revenue Requirement Input equals Output</b>										
<b>Rate Base Calculation</b>											
<b>Net Assets</b>											
dp	Distribution Plant - Gross	\$434,873,982	\$257,760,663	\$47,167,018	\$110,672,883	\$3,221,189	\$3,863,282	\$6,969,669	\$591,543	\$1,490,000	\$3,137,733
gp	General Plant - Gross	\$72,894,611	\$43,354,535	\$7,961,244	\$18,329,953	\$532,167	\$638,050	\$1,207,727	\$100,489	\$251,686	\$518,761
accum dep	Accumulated Depreciation	(\$192,167,154)	(\$113,442,316)	(\$20,639,411)	(\$49,578,838)	(\$1,467,901)	(\$1,760,495)	(\$2,948,745)	(\$255,189)	(\$647,532)	(\$1,425,727)
co	Capital Contribution	(\$49,285,263)	(\$29,178,643)	(\$5,464,525)	(\$12,650,120)	(\$284,467)	(\$343,726)	(\$815,457)	(\$75,121)	(\$188,261)	(\$284,943)
	<b>Total Net Plant</b>	<b>\$266,316,176</b>	<b>\$158,494,239</b>	<b>\$29,024,326</b>	<b>\$66,773,878</b>	<b>\$2,000,989</b>	<b>\$2,397,112</b>	<b>\$4,413,194</b>	<b>\$361,721</b>	<b>\$905,893</b>	<b>\$1,944,824</b>
<b>Directly Allocated Net Fixed Assets</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
<b>COP</b>											
	Cost of Power (COP)	\$407,115,920	\$142,952,272	\$49,090,620	\$195,167,575	\$1,446,480	\$11,794,580	\$2,740,185	\$97,503	\$730,544	\$3,096,161
	OM&A Expenses	\$39,093,230	\$25,308,618	\$4,152,351	\$8,220,414	\$246,522	\$299,062	\$489,680	\$40,230	\$94,802	\$241,553
	Directly Allocated Expenses	\$3,770	\$0	\$0	\$0	\$0	\$0	\$3,770	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$446,212,920</b>	<b>\$168,260,889</b>	<b>\$53,242,971</b>	<b>\$203,387,990</b>	<b>\$1,693,002</b>	<b>\$12,093,641</b>	<b>\$3,233,635</b>	<b>\$137,733</b>	<b>\$825,346</b>	<b>\$3,337,714</b>
	<b>Working Capital</b>	<b>\$38,686,660</b>	<b>\$14,588,219</b>	<b>\$4,616,166</b>	<b>\$17,633,739</b>	<b>\$146,783</b>	<b>\$1,048,519</b>	<b>\$280,356</b>	<b>\$11,941</b>	<b>\$71,557</b>	<b>\$289,380</b>
	<b>Total Rate Base</b>	<b>\$305,002,836</b>	<b>\$173,082,458</b>	<b>\$33,640,491</b>	<b>\$84,407,617</b>	<b>\$2,147,772</b>	<b>\$3,445,631</b>	<b>\$4,693,550</b>	<b>\$373,663</b>	<b>\$977,450</b>	<b>\$2,234,203</b>
	<b>Rate Base Input equals Output</b>										
	<b>Equity Component of Rate Base</b>	<b>\$122,001,134</b>	<b>\$69,232,983</b>	<b>\$13,456,197</b>	<b>\$33,763,047</b>	<b>\$859,109</b>	<b>\$1,378,252</b>	<b>\$1,877,420</b>	<b>\$149,465</b>	<b>\$390,980</b>	<b>\$893,681</b>
	<b>Net Income on Allocated Assets</b>	<b>\$10,711,700</b>	<b>\$7,133,457</b>	<b>\$3,162,078</b>	<b>(\$207,061)</b>	<b>\$12,296</b>	<b>\$176,377</b>	<b>\$463,167</b>	<b>(\$17,044)</b>	<b>(\$18,865)</b>	<b>\$7,293</b>
	<b>Net Income on Direct Allocation Assets</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>Net Income</b>	<b>\$10,711,700</b>	<b>\$7,133,457</b>	<b>\$3,162,078</b>	<b>(\$207,061)</b>	<b>\$12,296</b>	<b>\$176,377</b>	<b>\$463,167</b>	<b>(\$17,044)</b>	<b>(\$18,865)</b>	<b>\$7,293</b>
<b>RATIOS ANALYSIS</b>											
	<b>REVENUE TO EXPENSES STATUS QUO%</b>	<b>100.00%</b>	<b>101.66%</b>	<b>125.53%</b>	<b>82.60%</b>	<b>86.28%</b>	<b>113.24%</b>	<b>127.82%</b>	<b>62.95%</b>	<b>73.40%</b>	<b>85.26%</b>
	<b>EXISTING REVENUE MINUS ALLOCATED COSTS</b>	<b>(\$3,453,739)</b>	<b>(\$1,427,642)</b>	<b>\$1,527,233</b>	<b>(\$3,544,735)</b>	<b>(\$89,758)</b>	<b>\$46,378</b>	<b>\$222,810</b>	<b>(\$34,062)</b>	<b>(\$62,448)</b>	<b>(\$91,514)</b>
	<b>Deficiency Input equals Output</b>										
	<b>STATUS QUO REVENUE MINUS ALLOCATED COSTS</b>	<b>(\$0)</b>	<b>\$757,855</b>	<b>\$1,995,089</b>	<b>(\$2,891,503)</b>	<b>(\$68,574)</b>	<b>\$79,511</b>	<b>\$285,655</b>	<b>(\$31,556)</b>	<b>(\$55,208)</b>	<b>(\$71,268)</b>
	<b>RETURN ON EQUITY COMPONENT OF RATE BASE</b>	<b>8.78%</b>	<b>10.30%</b>	<b>23.50%</b>	<b>-0.61%</b>	<b>1.43%</b>	<b>12.80%</b>	<b>24.67%</b>	<b>-11.40%</b>	<b>-4.82%</b>	<b>0.82%</b>