

Appendix E: 2022 Long-Term Plan REC Pricing Model

INSTRUCTIONS:

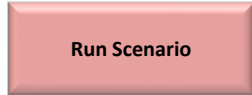
1. Make sure macros have been enabled if the user plans to run the model.
2. Users can customize the input assumptions in worksheets that are green, blue, or purple. Users should avoid altering the contents of grey worksheets.
3. Users can run the model by selecting a Block Group, Program, and Category in cells B2:B4 of the "Scenario & Results" Worksheet. Note that the contents of the worksheet will not be updated until the user clicks the "Run Scenario" button on the worksheet.
4. Results will be populated into rows 8-15 of the "Scenario & Results" worksheet.

WORKSHEET CONTENTS:

Cover	Provides instructions and worksheet contents.
Scenario & Results	Allows user to select a Block Group, Block Program, and Block Category. Users can make a selection and hit "Run Scenario" to run the model and retrieve REC Prices for the selected Group, Program, and Category.
ABP Scenario InputAssumptions	Contains input assumptions specific to ABP projects. Users can edit the inputs in the cells but should take care not to alter the format of the worksheet.
ILSfA Scenario InputAssumptions	Contains input assumptions specific to ILSfA projects. Users can edit the inputs in the cells but should take care not to alter the format of the worksheet.
Net Metering Credit	Contains all of the Net Metering Credits projects are assumed to receive for 25 years in express in \$/kWh
Ameren C&I Rates	Contains Ameren C&I Net Metering Rates and Rate sheets to be applied to Group A projects larger than 10 kW
Ameren Res Rates	Contains Ameren Residential Net Metering Rates and Rate sheets to be applied to Group A projects 10 kW and under
ComEd C&I Rates	Contains ComEd C&I Net Metering Rates and Rate sheets to be applied to Group B projects larger than 10 kW
ComEd Res Rates	Contains ComEd Residential Net Metering Rates and Rate sheets to be applied to Group B projects 10 kW and under
EIA_861_Sales	Contains 2020 EIA 861 sales data for Illinois utilities
NREL Capital Costs	Contains Q1 2020 NREL Solar Benchmarking Study capital costs for all project sizes, expressed in \$/W dc
Size-specific Assumptions	Contains size-specific model input assumptions
Group-specific Assumptions	Contains group-specific model input assumptions
Program-specific Assumptions	Contains program-specific model input assumptions
CREST Inputs	Contains the input assumptions for the currently selected Group, Program, and Category. Inputs from this worksheet directly read into the Cash Flow worksheet.
Cash Flow	Contains the cash flows for the currently selected Group, Program, and Category. Users should not alter the contents of this worksheet.
Annual Cash Flows & Returns	Provides an annual overview of cash flows from the cash flow worksheet.
Public Schools_Group A	Contains the calculation for ABP Public Schools REC Prices for Group A, based on modeled ABP DG results
Public Schools_Group B	Contains the calculation for ABP Public Schools REC Prices for Group B, based on modeled ABP DG results
Data Processing	Contains currently selected model run data. Users should not alter the contents of this worksheet.

To retrieve the REC prices for a specific Block, based on the assumptions reflected in the model, please select a Block Group, Block Program, and Block Category in the orange cells below:

Block Group	Group A
Block Program	Adjustable Block Program
Block Category	Distributed Generation



Group A_Adjustable Block Program_Distributed Generation	
0 - 10 kW	\$68.98
10 - 25 kW	\$57.49
25 - 100 kW	\$49.11
100 - 200 kW	\$49.73
200 - 500 kW	\$44.05
500 - 2000 kW	\$42.10
2000- 5000 kW	\$27.35

Group A_Adjustable Block Program_Distributed Generation	
0 - 10 kW	\$68.98
10 - 25 kW	\$57.49
25 - 100 kW	\$49.11
100 - 200 kW	\$49.73
200 - 500 kW	\$44.05
500 - 2000 kW	\$42.10
2000- 5000 kW	\$27.35

IPA Pricing Bin Adders	
0 - 10 kW	\$41.63
10 - 25 kW	\$30.13
25 - 100 kW	\$21.76
100 - 200 kW	\$22.38
200 - 500 kW	\$16.70
500 - 2000 kW	\$14.75
2000- 5000 kW	\$0.00

	Discount Rate	25-yr Present Value Cost of Energy (\$)	25-yr Present Value Net Metering Credit (\$)	Revenue Shortfall (\$)	REC Production (MWh)	Net LCOE (\$/REC)
10 kW	8.80%	\$ 29,756	\$ 13,558	\$16,198	235	\$68.98
25 kW	7.70%	\$ 47,252	\$ 20,704	\$26,548	577	\$45.99
100 kW	7.77%	\$ 202,098	\$ 81,994	\$120,104	2,300	\$52.23
200 kW	7.68%	\$ 376,911	\$ 162,841	\$214,070	4,533	\$47.23
500 kW	7.63%	\$ 900,203	\$ 422,138	\$478,065	11,696	\$40.87
2000 kW	7.61%	\$ 3,543,713	\$ 1,612,095	\$1,931,619	44,578	\$43.33
5000 kW	7.29%	\$ 7,195,471	\$ 4,147,430	\$3,048,040	111,445	\$27.35

Please note that the REC Prices presented below do not auto-populate when a new scenario is run. These prices reflect the assumptions provided with the download of this model and as presented in the 2022 Long-Term Plan (and described in Appendix D).

	Group A_Adjustable Block Program_Distributed Generation	Group B_Adjustable Block Program_Distributed Generation
0 - 10 kW	\$68.98	\$68.40
10 - 25 kW	\$57.49	\$59.63
25 - 100 kW	\$49.11	\$51.32
100 - 200 kW	\$49.73	\$48.39
200 - 500 kW	\$44.05	\$43.01
500 - 2000 kW	\$42.10	\$38.08
2000- 5000 kW	\$27.35	\$19.61

	Group A_Adjustable Block Program_Community Solar	Group B_Adjustable Block Program_Community Solar
0 - 25 kW	\$49.59	\$53.37
25 - 100 kW	\$52.57	\$56.48
100 - 200 kW	\$54.22	\$57.79
200 - 500 kW	\$51.03	\$54.86
500 - 2000 kW	\$42.35	\$48.24
2000- 5000 kW	\$30.39	\$36.30

	Group A_Adjustable Block Program_Community-driven Solar	Group B_Adjustable Block Program_Community-driven Solar
0 - 25 kW	\$62.77	\$67.56
25 - 100 kW	\$66.53	\$71.48
100 - 200 kW	\$68.73	\$73.02
200 - 500 kW	\$64.45	\$69.30
500 - 2000 kW	\$52.65	\$60.48
2000- 5000 kW	\$36.46	\$44.85

	Group A_Adjustable Block Program_Public Schools	Group B_Adjustable Block Program_Public Schools
0 - 25 kW	\$64.68	\$67.10
25 - 100 kW	\$55.40	\$57.90
100 - 200 kW	\$55.91	\$54.41
200 - 500 kW	\$49.43	\$48.26
500 - 2000 kW	\$47.20	\$42.69
2000- 5000 kW	\$30.27	\$21.70

	Group A_IL Solar for All_Distributed Generation (1-4 Unit)	Group B_IL Solar for All_Distributed Generation (1-4 Unit)
0 - 10 kW	\$165.08	\$160.09
10 - 25 kW	\$129.48	\$129.07
25 - 100 kW	\$96.89	\$98.04
100 - 200 kW	\$97.23	\$94.62
200 - 500 kW	\$90.76	\$89.39
500 - 2000 kW	\$88.77	\$84.13
2000- 5000 kW	\$65.41	\$60.54

	Group A_IL Solar for All_Distributed Generation (5+ Units)	Group B_IL Solar for All_Distributed Generation (5+ Units)
0 - 10 kW	\$96.19	\$102.29
10 - 25 kW	\$78.78	\$85.62
25 - 100 kW	\$64.43	\$69.48
100 - 200 kW	\$65.21	\$66.74
200 - 500 kW	\$59.81	\$61.61
500 - 2000 kW	\$58.24	\$56.75
2000- 5000 kW	\$42.90	\$37.71

	Group A_IL Solar for All_Low-Income Community Solar	Group B_IL Solar for All_Low-Income Community Solar
0 - 25 kW	\$85.11	\$93.42
25 - 100 kW	\$89.11	\$98.03
100 - 200 kW	\$91.71	\$99.91
200 - 500 kW	\$87.21	\$95.96
500 - 2000 kW	\$79.34	\$87.06
2000- 5000 kW	\$64.58	\$68.87

	Group A_IL Solar for All_Non-profit & Public Facility	Group B_IL Solar for All_Non-profit & Public Facility
0 - 25 kW	\$81.46	\$91.83
25 - 100 kW	\$84.38	\$91.31
100 - 200 kW	\$84.99	\$87.34
200 - 500 kW	\$78.81	\$81.75
500 - 2000 kW	\$77.01	\$75.92
2000- 5000 kW	\$58.66	\$52.26

Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Generator Nameplate Capacity	kW dc		30	119	241	602	2438	6094
AC to DC Conversion Factor	%	0.83148938	0.83861416	0.82971904	0.82015675	0.82046638	0.82046638	0.8198727
Capacity Factor	%	0.1513	0.15197	0.14819	0.15303	0.14411	0.14411	0.1497
Generation Equipment	\$	\$27,954	\$110,865	\$216,904	\$532,544	\$2,139,423	\$4,373,122	\$4,376,289
Balance of Plant	\$	\$12,347	\$48,969	\$86,641	\$200,464	\$783,775	\$1,962,299	\$1,963,739
Interconnection	\$	\$200	\$14,899	\$23,562	\$49,009	\$185,042	\$392,460	\$392,744
Development Costs & Fee	\$	\$9,977	\$39,569	\$73,078	\$173,255	\$686,182	\$616,722	\$617,169
Project Management Yr 1	\$/yr	\$150.33	\$596.22	\$1,205.23	\$3,011.48	\$12,188.19	\$30,470.47	\$30,492.54
Property Tax or PILOT, Yr 1	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Land Lease	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction Period	months	12	12	12	12	12	12	12
% Debt (% of hard costs) (mortgage-style amort.)	%	45%	45%	45%	45%	45%	45%	45%
Debt Term	years	15	15	15	15	15	15	15
Target After-Tax Equity IRR(%)	%	12%	12%	12%	12%	12%	12%	12%
State Income Tax Rate	%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%
Payment Duration for Cost-Based Tariff	years	15	15	15	15	15	15	15
Post-tariff market value, Yr 1	c/kWh	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84
Additional State								
Rebates/Grants	\$/Watt	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25
1st Replacement Cost (\$ in year replaced)	\$/Watt dc	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13
Taxable Entity	Y/N	No	No	No	No	No	No	No
Net Metering Credit	\$	\$1,007,559	\$1,007,559	\$1,007,559	\$1,007,559	\$1,007,559	\$1,007,559	\$1,007,559
Subscriber Savings	%	50%	50%	50%	50%	50%	50%	50%
% of Net Metering Value	%	50%	50%	50%	50%	50%	50%	50%
Allocated	%	50%	50%	50%	50%	50%	50%	50%

Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Generator Nameplate Capacity	kW dc		30	119	235	624	2439	6099
AC to DC Conversion Factor	%	0.82711934	0.83931014	0.85005573	0.80099761	0.8198727	0.8198727	0.8198727
Capacity Factor	%	0.13319	0.14306	0.14176	0.14119	0.1497	0.1497	0.1497
Generation Equipment	\$	\$26,101	\$110,773	\$211,715	\$551,930	\$2,140,973	\$4,376,289	\$4,376,289
Balance of Plant	\$	\$12,412	\$48,928	\$84,568	\$207,761	\$784,342	\$1,963,739	\$1,963,739
Interconnection	\$	\$200	\$14,887	\$22,998	\$50,793	\$185,176	\$392,744	\$392,744
Development Costs & Fee	\$	\$10,030	\$39,536	\$71,330	\$179,562	\$686,679	\$617,169	\$617,169
Project Management Yr 1	\$/yr	\$151.13	\$595.73	\$1,176.39	\$3,121.11	\$12,197.02	\$30,492.54	\$30,492.54
Property Tax or PILOT, Yr 1	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Land Lease	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction Period	months	12	12	12	12	12	12	12
% Debt (% of hard costs) (mortgage-style amort.)	%	45%	45%	45%	45%	45%	45%	45%
Debt Term	years	15	15	15	15	15	15	15
Target After-Tax Equity IRR(%)	%	12%	12%	12%	12%	12%	12%	12%
State Income Tax Rate	%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%
Payment Duration for Cost-Based Tariff	years	15	15	15	15	15	15	15
Post-tariff market value, Yr 1	c/kWh	\$3.34	\$3.34	\$3.34	\$3.34	\$3.34	\$3.34	\$3.34
Additional State								
Rebates/Grants	\$/Watt	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25
1st Replacement Cost (\$ in year replaced)	\$/Watt dc	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13
Taxable Entity	Y/N	No	No	No	No	No	No	No
Net Metering Credit	\$	\$1,182,208	\$1,182,208	\$1,182,208	\$1,182,208	\$1,182,208	\$1,182,208	\$1,182,208
Subscriber Savings	%	50%	50%	50%	50%	50%	50%	50%
% of Net Metering Value	%	50%	50%	50%	50%	50%	50%	50%
Allocated	%	50%	50%	50%	50%	50%	50%	50%

Assumptions
Inflation Rate (%)

1.00%

DY Year Ending (Current Year)

Table with columns: ComEd C&I Tariff, 2022-2046. Rows include Energy Charge (\$/kWh), Transmission Charge (\$/kWh), Capacity Charge (\$/kWh), Energy Transition Assistance Charge (\$/kWh), Energy Efficiency Adjustment (\$/kWh), Zero Emission Adjustment (\$/kWh), Renewable Energy Adjustment (\$/kWh), and Environmental Cost Recovery Adjustment (\$/kW). Total Charge (\$/kWh) is \$0.067 in 2022 and increases to \$0.085 by 2046.

Table with columns: ComEd Res Tariff, 2022-2046. Rows include Energy Charge (\$/kWh), Transmission Charge (\$/kWh), Distribution Facility Charge (\$/kWh), Energy Transition Assistance Charge (\$/kWh), Energy Efficiency Adjustment (\$/kWh), Zero Emission Adjustment (\$/kWh), Renewable Energy Adjustment (\$/kWh), and Environmental Cost Recovery Adjustment (\$/kW). Total Charge (\$/kWh) is \$0.126 in 2022 and increases to \$0.160 by 2046.

Table with columns: Ameren C&I Tariff, 2022-2046. Rows include Energy Charge (\$/kWh), Transmission Charge (\$/kWh), Capacity Charge (\$/kWh), Energy Transition Assistance Charge (\$/kWh), Energy Efficiency Adjustment (\$/kWh), Zero Emission Adjustment (\$/kWh), Renewable Energy Adjustment (\$/kWh), and Environmental Cost Recovery Adjustment (\$/kW). Total Charge (\$/kWh) is \$0.056858 in 2022 and increases to \$0.072 by 2046.

Table with columns: Ameren Res Tariff, 2022-2046. Rows include Energy Charge (\$/kWh), Transmission Charge (\$/kWh), Distribution Facility Charge (\$/kWh), Energy Transition Assistance Charge (\$/kWh), Energy Efficiency Adjustment (\$/kWh), Zero Emission Adjustment (\$/kWh), Renewable Energy Adjustment (\$/kWh), and Environmental Cost Recovery Adjustment (\$/kW). Total Charge (\$/kWh) is \$0.101 in 2022 and increases to \$0.128 by 2046.

Annual Expected Net Metering Revenue (\$)

Table with columns: Revenue, 2022-2046. Rows include ComEd C&I, ComEd Residential, Ameren C&I, and Ameren Residential. Total revenue increases from \$205,296 in 2022 to \$348,777 in 2046.

Source: <http://www.aemc.com/Files/Rate/Rate/Rate/2022/Rate/2022.pdf>

Transmission Charge 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Rate	Effective Date	Category
0.00117	1/1/22	American Electric Company (AEC) American Electric
0.00114	1/1/22	American Electric Company (AEC) American Electric
0.00114	1/1/22	American Electric Company (AEC) American Electric
0.00114	1/1/22	100% International Electric Supplemental to Sheet No. 10
0.00114	1/1/22	100% International Electric Supplemental to Sheet No. 10

Service Charge 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Energy Transition Assistance Charge 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Energy Efficiency Charge 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Peak Reliability Credit Charge 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Renewable Energy Adjustment 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Environmental Energy Adjustment March 2022

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Changes for Service Billed During the February 2022 Through December 2022 Billing Period

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Rate 10 - Energy Efficiency and Demand/Response Investment Charges

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Statutory Charges

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Renewable Energy Adjustment

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

Environmental Energy Adjustment

Category	Rate	Effective Date
American Electric Company (AEC) American Electric	0.00117	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
American Electric Company (AEC) American Electric	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22
100% International Electric Supplemental to Sheet No. 10	0.00114	1/1/22

Source: American Gas Rates Provided by Enbridge Energy

ComEd Delivery Customer Class Peak Load Contributions

Rate effective date for each type of Peak Load Contribution

These categories include both non-residential and residential customer classes.

Customer Delivery Classification	Network Peak Load Contribution (MW)	Capacity Peak Load Contribution (MW)	Capacity Peak Load Contribution (MW)
Industrial Sites			
Manufacturing, Commercial			
Large Industrial Class	11	1,777	1,888
Medium Industrial Class	26	3,124	3,218
Small Industrial Class	29	11,243	11,624
Large Commercial Class	10	487,719	492,400
Medium Commercial Class	10	1,181,817	1,213,542
Small Commercial Class	18	6,717,718	6,841,134
High Voltage Delivery Class	18	3,602,000	3,711,104
Medium Voltage Class	18	1,102,111	1,124,120
Residential/Industrial Lighting Delivery Class	19	10,000	10,000
Public Facilities			
Public Facilities Delivery Class	18	10,103	10,200
Public Facilities Delivery Class	18	10,103	10,200
Residential Multi-Family			
Residential Multi-Family Without Electric Base and Delivery Class	23	1,380	1,310
Residential Multi-Family With Electric Base and Delivery Class	23	1,380	1,310
Residential Single-Family			
Residential Single-Family Without Electric Base and Delivery Class	24	1,300	1,270
Residential Single-Family With Electric Base and Delivery Class	24	1,300	1,270
Residential High Voltage			
Residential High Voltage Delivery Class	25	1,000	1,000
Residential High Voltage Delivery Class	25	1,000	1,000

Last revised 1/21/22

Source: <https://www.ameson.com/findeba/area/findeba/findeba/2022/02/03/03/03.pdf>

Source: <https://www.ameson.com/findeba/area/findeba/findeba/2022/02/03/03/03.pdf>

Source: <https://www.ameson.com/findeba/area/findeba/findeba/2022/02/03/03/03.pdf>

Energy Charges 2022

Category	Rate	Unit	Charge
Residential Delivery Service Rate DS-1	0.1000	kWh	10.00
Small Commercial Delivery Service Rate DS-2	0.1200	kWh	12.00
General Delivery Service Rate DS-3 DS-4 DS-5*	0.1500	kWh	15.00
Large Commercial Delivery Service Rate DS-6 DS-6*	0.2000	kWh	20.00
Lighting Service Rate DS-8	0.0001	ft	0.01
Transmission Charge	1.2000	kWh	120.00
Energy Charge	0.6110	kWh	61.10
Total Charge	2.8110	kWh	281.10

Environmental Charges 2022

Category	Rate	Unit	Charge
Residential Delivery Service Rate DS-1	0.1000	kWh	10.00
Small Commercial Delivery Service Rate DS-2	0.1200	kWh	12.00
General Delivery Service Rate DS-3 DS-4 DS-5*	0.1500	kWh	15.00
Large Commercial Delivery Service Rate DS-6 DS-6*	0.2000	kWh	20.00
Lighting Service Rate DS-8	0.0001	ft	0.01
Transmission Charge	1.2000	kWh	120.00
Energy Charge	0.6110	kWh	61.10
Total Charge	2.8110	kWh	281.10

Source: <https://www.ameson.com/findeba/area/findeba/findeba/2022/02/03/03/03.pdf>

Energy Efficiency Charge 2022

Category	Rate	Unit	Charge
Residential Delivery Service Rate DS-1	0.1000	kWh	10.00
Small Commercial Delivery Service Rate DS-2	0.1200	kWh	12.00
General Delivery Service Rate DS-3 DS-4 DS-5*	0.1500	kWh	15.00
Large Commercial Delivery Service Rate DS-6 DS-6*	0.2000	kWh	20.00
Lighting Service Rate DS-8	0.0001	ft	0.01
Transmission Charge	1.2000	kWh	120.00
Energy Charge	0.6110	kWh	61.10
Total Charge	2.8110	kWh	281.10

Energy Transition Assistance Charge 2022

Ameson Bio-Risk Company d/b/a Ameson Bio-Risk
 Rate ETRC - Energy Transition Assistance Charge
 Charge for Service Billed During the February 2022 through December 2022 Billing Period

Category	Rate	Unit	Charge
Energy Transition Assistance Charge	0.0211	kWh	2.11
Total Charge	0.0211	kWh	2.11

Energy Efficiency Charge 2022

Ameson Bio-Risk Company d/b/a Ameson Bio-Risk
 Rate EE - Energy Efficiency and Demand Response Treatment Charge
 Charge for Service Billed During the January 2022 through December 2022 Billing Period

Category	Rate	Unit	Charge
Energy Efficiency Charge	0.1880	kWh	18.80
Total Charge	0.1880	kWh	18.80

Rate Schedule Grid Charge 2022

Ameson Bio-Risk Company d/b/a Ameson Bio-Risk
 Rate GRC - Grid Charge
 Charge for Service Billed During the February 2022 through December 2022 Billing Period

Category	Rate	Unit	Charge
Grid Charge	0.0036	kWh	3.60
Total Charge	0.0036	kWh	3.60

Renewable Energy Adjustment 2022

Ameson Bio-Risk Company d/b/a Ameson Bio-Risk
 Rate REA - Renewable Energy Adjustment
 Charge for Service Billed On and After the Following Billing Periods

Category	Rate	Unit	Charge
Renewable Energy Adjustment	0.0048	kWh	4.80
Total Charge	0.0048	kWh	4.80

Environmental Energy Adjustment March 2022

Ameson Bio-Risk - Area Zone 1
 Rate EEA - Electric Environmental Adjustment
 Charge for Service Billed On and After March 1, 2022

Category	Rate	Unit	Charge
Environmental Energy Adjustment	0.0048	kWh	4.80
Total Charge	0.0048	kWh	4.80

Source: <http://www.comed.com/DataCollection/Documents/MyAccount/MyBillsUsage/CurrentRates/PAServicesChangeofUse.pdf>

Transmission Charge (2022-2023)

Transmission Class	Rate	Units
Transmission Class 1	3.253	\$/kWh
Transmission Class 2	0.0202	\$/kWh
Transmission Class 3	0.0202	\$/kWh
Transmission Class 4	0.0202	\$/kWh
Transmission Class 5	0.04150	\$/kWh

Source: ComEd E-TRP Provided by Elavest Energy

Reserve Location/Marginal Prices (2012-2021)

Year	Rate	Units
2021	0.02027	\$/kWh
2020	0.02023	\$/kWh
2019	0.02021	\$/kWh
2018	0.02029	\$/kWh
2017	0.04150	\$/kWh

Capacity Charge (2022)

Customer Class	Rate	Units
Residential Single-Family	4.0000	\$/kW-month
Commercial	4.0000	\$/kW-month
Industrial	4.0000	\$/kW-month
Public Utility	4.0000	\$/kW-month

Energy Transition Assistance Charge (2022)

Customer Class	Rate	Units
Residential Single-Family	0.0082	cents/kWh
Commercial	0.0082	cents/kWh
Industrial	0.0082	cents/kWh
Public Utility	0.0082	cents/kWh

Energy Efficiency Adjustment (2021)

Customer Class	Rate	Units
Residential Single-Family	0.363	cents/kWh
Commercial	0.00961	\$/kWh
Industrial	0.00961	\$/kWh
Public Utility	0.00961	\$/kWh

Energy Efficiency Adjustment = 0.363 cents/kWh
 Energy Efficiency Adjustment = 0.00961 \$/kWh

Zero Emission Adjustment (2022)

Customer Class	Rate	Units
Residential Single-Family	0.195	cents/kWh
Commercial	0.02019	\$/kWh
Industrial	0.02019	\$/kWh
Public Utility	0.02019	\$/kWh

Zero Emission Adjustment = 0.195 cents/kWh
 Zero Emission Adjustment = 0.02019 \$/kWh

Renewable Energy Adjustment (2022-2023)

Customer Class	Rate	Units
Residential Single-Family	0.502	cents/kWh
Commercial	0.0002	\$/kWh
Industrial	0.0002	\$/kWh
Public Utility	0.0002	\$/kWh

Environmental Cost Recovery Adjustment

Customer Class	Rate	Units
Residential Single-Family	0.053	cents/kWh
Commercial	0.00021	\$/kWh
Industrial	0.00021	\$/kWh
Public Utility	0.00021	\$/kWh

Environmental Cost Recovery Adjustment = 0.053 cents/kWh
 Environmental Cost Recovery Adjustment = 0.00021 \$/kWh

ComEd Delivery Customer Class Peak Load Contributions

* Note effective date for each type of Peak Load Contribution
 * These categories include both non-residential and residential customer classes.

Customer Delivery Classification	Delivery Class Code	Network Peak Load Contribution (NPL) MW	Capacity Peak Load Contribution (PLC) MW	Capacity Peak Load Contribution (PLC) MW
Effective Dates		1/1/2022 - 3/31/2022	4/1/2022 - 9/30/2022	10/1/2022 - 9/30/2023
NONRESIDENTIAL CUSTOMERS				
Large Motor Delivery Class	27	0.9722	0.8888	0.9504
Large Load Delivery Class	28	8.4328	8.9778	9.1363
Medium Load Delivery Class	29	33.9669	33.4487	32.8485
Large Load Delivery Class	30	485.7588	388.2465	429.8966
Very Large Load Delivery Class	31	6.0513	6.8240	6.9310
Extra Large Load Delivery Class	32	15,227.7328	13,823.5826	14,999.4248
High Voltage Delivery Class	33	7,850.0929	7,331.9050	7,645.3710
Railroad Delivery Class	34	5,038.1111	4,828.1118	5,439.0326
Public-Included Lighting Delivery Class	35	0.0000	0.0000	0.0000
Dark-to-Dawn Lighting Delivery Class	36	0.0000	0.0000	0.0000
General Lighting Delivery Class	37	8.6253	8.3760	8.0488
RESIDENTIAL CUSTOMERS				
Residential Single Family Without Electric Load Meter Delivery Class	23	3,388.1	2,932.0	3,209.0
Residential Multi Family Without Electric Load Meter Delivery Class	24	1,259.0	1,107.0	1,245.0
Space Heat Delivery Class	25	3,033.0	2,677.0	2,907.0
Residential Single Family With Electric Load Meter Delivery Class	26	1,333.0	1,196.0	1,320.0
Space Heat Delivery Class				

Last revised 10/1/21

Utility Characteristics									RESIDENTIAL			COMMERCIAL			INDUSTRIAL			TRANSPORTATION			TOTAL		
Data Year	Utility Number	Utility Name	Part	Service Type	Data Type O = Observed I = Imputed	State	Ownership	BA Code	Revenues Thousand Dollars	Sales Megawatts	Customers Count	Revenues Thousand Dollars	Sales Megawatts	Customers Count	Revenues Thousand Dollars	Sales Megawatts	Customers Count	Revenues Thousand Dollars	Sales Megawatts	Customers Count	Revenues Thousand Dollars	Sales Megawatts	Customers Count
2020	4110	Commonwealth Edison Co	A	Bundled	O	IL	Investor Owned	PJM	2,547,676.2	19,250,047	2,637,056	786,494.6	7,841,717	215,127	54,721.4	858,862	174	0.0	0	0	3,388,892.2	27,950,626	2,852,357
2020	4110	Commonwealth Edison Co	C	Delivery	O	IL	Investor Owned	PJM	543,084.6	8,783,712	1,044,873	651,184.3	21,369,962	176,067	459,610.9	25,020,423	1,780	6,809.7	433,045	2	1,660,689.5	55,607,142	1,222,722
2020	12341	MidAmerican Energy Co	A	Bundled	O	IL	Investor Owned	MISO	61,540.5	639,263	73,949	41,293.0	568,653	11,376	30,086.2	639,592	42	.	.	.	132,919.7	1,847,508	85,367
2020	12341	MidAmerican Energy Co	C	Delivery	O	IL	Investor Owned	MISO	19.4	418	76	768.0	43,453	188	387.5	29,247	5	.	.	.	1,174.9	73,118	269
2020	13032	Mt Carmel Public Utility Co	A	Bundled	O	IL	Investor Owned	MISO	7,033.0	47,330	4,356	2,174.0	14,386	815	3,137.0	24,504	92	0.0	0	0	12,344.0	86,220	5,263
2020	56697	Ameren Illinois Company	A	Bundled	O	IL	Investor Owned	MISO	486,932.9	5,000,723	459,922	214,851.3	2,453,658	65,683	18,758.2	370,162	282	.	.	.	720,542.4	7,824,543	525,887
2020	56697	Ameren Illinois Company	C	Delivery	O	IL	Investor Owned	MISO	373,943.4	6,442,441	600,344	294,731.4	9,250,344	98,279	105,179.2	10,304,303	691	463.0	16,913	1	774,317.0	26,014,001	699,315

	Annual kWh		
	Residential	Commercial	Total
ComEd	7,614	74,673	20,505
Ameren	10,793	71,382	27,619

NREL Q1 2020 Benchmarking Cost Report: Solar PV Installed Costs (\$ / W dc)

Residential			Commercial						Utility-scale				
AC System Size	Unit	10	AC System Size	25	100	200	500	2000	5000 - Fixed	5000 - Tracking	Module Cost Increase	0.08	\$/W DC
Module	\$/ W dc	0.49	Module	0.49	0.49	0.49	0.49	0.49	0.49	0.49			
Inverter	\$/ W dc	0.25	Inverter	0.12	0.12	0.12	0.12	0.12	0.05	0.05			
Hardware BOS - Structural Components	\$/ W dc	0.08	Hardware BOS - Structural Components	0.11	0.11	0.11	0.11	0.11	0.1	0.15			
Hardware BOS - Electrical Components	\$/ W dc	0.23	Hardware BOS - Electrical Components	0.15	0.15	0.13	0.13	0.12	0.13	0.13			
Installation Labor	\$/ W dc	0.26	Installation Labor & Equipment	0.19	0.19	0.15	0.13	0.12	0.12	0.13			
Permitting, Inspection and Interconnection (PII)	\$/ W dc	0.06	Permitting, Inspection and Interconnection (PII)	0.14	0.14	0.11	0.09	0.08	0.07	0.07			
Supply Chain Costs	\$/ W dc	0.19	EPC Overhead	0.18	0.18	0.16	0.15	0.15	0.08	0.09			
Sales Tax	\$/ W dc	0.24	Sales Tax	0.05	0.05	0.05	0.04	0.04	0.04	0.05			
Total EPC Cost	\$/ W dc	1.80	Total EPC Cost	1.42	1.42	1.32	1.26	1.24	1.09	1.17			
Sales & Marketing (Customer Acquisition)	\$/ W dc	0.43	Contingency (4%)	0.05	0.05	0.04	0.04	0.04	0.03	0.03			
Overhead (General & Admin.)	\$/ W dc	0.27	Developer Overhead	0.36	0.36	0.33	0.31	0.31	0.11	0.12			
Net Profit	\$/ W dc	0.29	EPC/Developer Net Profit	0.12	0.12	0.11	0.11	0.11	0.09	0.10			
Total Installation Cost	\$/ W dc	2.79	Total Installation Cost	1.95	1.95	1.80	1.72	1.69	1.32	1.42			
AC System Size	Unit	10	25	100	200	500	2000	5000	5000				
Generation Equipment	\$/ kW dc	933	930	930	900	884	878	718	746				
Balance of Plant	\$/ kW dc	527	411	411	359	333	322	322	385				
Balance of Plant (Prevailing Wage Labor 32% increase)	\$/ kW dc	604	466	466	403	370	356	357	425				
Interconnection	\$/ kW dc	58	125	125	98	81	76	64	62				
Development Costs and Fee	\$/ kW dc	881	332	332	303	288	281	101	113				
Total	\$/ kW dc	3,003	2,263	2,263	2,063	1,956	1,913	1,563	1,732				

Annual Reduction in Installed Costs (%) 4%
 NREL Study Year 2020
 Adjustment to year: 2022

Item Description	Unit							
Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Tax Rate	%	4.95%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%
Inverter Cost	(\$ / W dc)	0.21	0.13	0.13	0.13	0.13	0.13	0.13
Additional State Rebates/Grants	\$/ W dc	\$0.00	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25
Construction Period	months	6	12	12	12	12	12	12

Group-specific Assumptions

Group A

Group B

Group A								Group B									
Distributed Generation								Distributed Generation									
Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000	Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Generator Nameplate Capacity	kW dc	12	30	119	241	602	2438	6094	Generator Nameplate Capacity	kW dc	13	30	119	235	624	2439.40	6099
AC to DC Conversion Factor	%	0.804361003	0.831489382	0.838614163	0.82971904	0.830156748	0.820466384	0.820466384	AC to DC Conversion Factor	%	0.796889897	0.827119337	0.839310139	0.850055727	0.800997613	0.819872703	0.8198727
Capacity Factor	%	0.14884	0.1513	0.15197	0.14819	0.15303	0.14411	0.14411	Capacity Factor	%	0.13465	0.13319	0.14306	0.14176	0.14119	0.1497	0.1497
Community Solar								Community Solar									
Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000	Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Generator Nameplate Capacity	kW dc		30	119	241	602	2901	7253	Generator Nameplate Capacity	kW dc		30	119	235	624	2502	6255
AC to DC Conversion Factor	%		0.831489382	0.838614163	0.82971904	0.830156748	0.689376088	0.689376088	AC to DC Conversion Factor	%		0.827119337	0.839310139	0.850055727	0.800997613	0.799371029	0.799371
Capacity Factor	%		0.1513	0.15197	0.14819	0.15303	0.16907	0.16907	Capacity Factor	%		0.13319	0.14306	0.14176	0.14119	0.16387	0.16387
Interconnection Costs	\$		\$4,505	\$17,866	\$36,115	\$90,240	\$434,671	\$1,086,678	Interconnection Costs	\$		\$7,471	\$29,449	\$58,154	\$154,289	\$618,410	\$1,546,025
Community Solar Interconnection costs per InClima data (\$/kW dc)		\$149.83							Community Solar Interconnection costs per InClima data (\$/kW dc)		\$247.17						

Program-specific Assumptions

Category	Category Type	Project				Payment			Subscriber Savings (%)	% of Net Metering Value Allocated (%)	Property Taxes (\$/MWac-yr)	Property Taxes (\$/kWac-yr)	Taxable Entity?	Community Solar Subscriber Adder
		Land Lease (\$/kWdc-yr)	Management Yr 1 (\$/kWdc-yr)	% Debt (% of hard costs) (mortgage-style amort.)	Debt Term	Duration for Cost-Based	Target After-Tax Equity IRR(%)	Tariff						
Adjustable Block Program	Distributed Generation	\$0	\$5	45%	15	15	12%	20%	80%	\$0	\$0.00	Yes	\$0	
	Community Solar	\$5	\$5	45%	20	20	14%	20%	80%	\$6,000	\$6.00	Yes	\$14.84	
	Community-driven Solar	\$5	\$5	45%	15	15	14%	20%	80%	\$6,000	\$6.00	Yes	\$14.84	
	Public Schools	\$0	\$5	45%	20	20	12%	20%	80%	\$0	\$0.00	Yes	\$0.00	
IL Solar for All	Distributed Generation (1-4 Unit)	\$0	\$5	0%	15	15	12%	100%	0%	\$0	\$0.00	Yes	\$0.00	
	Distributed Generation (5+ Units)	\$0	\$5	0%	15	15	12%	50%	50%	\$0	\$0.00	Yes	\$0.00	
	Low-Income Community Solar	\$5	\$5	35%	5	15	14%	50%	50%	\$6,000	\$6.00	Yes	\$14.84	
	Non-profit & Public Facility	\$0	\$5	45%	15	15	12%	50%	50%	\$0	\$0.00	No	\$0.00	

Project/Contract Year	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
Production Depreciation Factor	0.00	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Turn Rate & Cash Incentives		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Fixed Costs		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Fixed Costs (Fixed Portions)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Revenue		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Operating Expenses		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
EBITDA (Operating Income)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Operating Income		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Net Cash Flow		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
NPV		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
IRR		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Project/Contract Year	units	000																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
00		\$0.00	\$0.00																															
01		\$1,071,567																																
02		\$2,276,258																																
03		\$1,071,567																																
04		\$2,276,258																																
05		\$1,071,567																																
06		\$4,542,516																																
07		\$7,813,775																																
08		\$2,276,258																																
09		\$10,241,400																																
10		\$11,241,400																																
11		\$11,241,400																																

Performance, Cost, Operating, Tax & Financing Inputs												
Check					Notes	Check					Notes	
	Selected Technology				Photovoltaic	?						
Project Size and Performance												
	Generator Nameplate Capacity	Units	Input Value									
	Net Capacity Factor: Select "State Average" or "Custom"	% dc	24.38	?								
	Net Capacity Factor	% dc	14.41%	?								
	Production, Yr 1	MWh	3,077,283	?								
	Annual Production Degradation	%	0.3%	?								
	Project Useful Life	years	25	?								
Capital Costs												
	Select Cost Level of Detail	Units	Input Value									
	Generation Equipment	\$	\$2,139,423	?								
	Balance of Plant	\$	\$668,319	?								
	Interconnection	\$	\$165,042	?								
	Development Costs & Fee	\$	\$68,182	?								
	Reserves & Financing Costs	\$	\$254,819	?								
	Total Installed Cost (before rebates/grants, if any)	\$	\$4,133,786	?								
	Total Installed Cost (before rebates/grants, if any)	\$/Watt dc	\$1.70	?								
Operations & Maintenance												
	Select Cost Level of Detail	Units	Input Value									
	Fixed O&M Expense, Yr 1	\$/kW-yr dc	\$10.00	?								
	Variable O&M Expense, Yr 1	¢/kWh	\$0.00	?								
	O&M Cost Inflation, initial period	%	2%	?								
	Initial Period ends last day of:	year	10	?								
	O&M Cost Inflation, thereafter	%	2.0%	?								
	Insurance, Yr 1 (% of Total Cost)	%	0%	?								
	Insurance, Yr 1 (\$ (Provided for reference))	\$	\$7,758	?								
	Project Management Yr 1	\$/yr	\$12,188	?								
	Property Tax or PILOT, Yr 1	\$/yr	\$0	?								
	Annual Property Tax Adjustment Factor	%	-3.5%	?								
	Land Lease	\$/yr	\$0	?								
	Royalties (% of revenue)	%	0.3%	?								
	Royalties, Yr 1 (\$ (Provided for reference))	\$	\$0	?								
Construction Financing												
	Construction Period	months	12	?								
	Interest Rate (Annual)	%	5.0%	?								
	Interest During Construction	\$	\$96,974	?								
Permanent Financing												
	% Debt (% of hard costs) (mortgage-style amort.)	%	45%	?								
	Debt Term	years	15	?								
	Interest Rate on Term Debt	%	6.00%	?								
	Lender's Fee (% of total borrowing)	%	3.0%	?								
	Required Minimum Annual DSCR		1.30	?								
	Actual Minimum DSCR, occurs in -->	Year 9	1.74	?								
	Minimum DSCR Check Cell (If "Fail," read note ==>)	Pass/Fail	Pass	?								
	Required Average DSCR		1.45	?								
	Actual Average DSCR		1.82	?								
	Average DSCR Check Cell (If "Fail," read note ==>)	Pass/Fail	Pass	?								
	% Equity (% hard costs) (soft costs also equity funded)	%	55%	?								
	Target After-Tax Equity IRR	%	12%	?								
	Weighted Average Cost of Capital (WACC)	%	7.61%	?								
	Other Closing Costs	\$	\$0	?								
Summary of Sources of Funding for Total Installed Cost												
	Senior Debt (funds portion of hard costs)	36%	\$1,497,353	?								
	Equity (funds balance of hard costs + all soft costs)	50%	\$2,084,917	?								
	Total Value of Grants (incl. pmt in lieu of ITC, if applicable)	15%	\$615,516	?								
	Total Installed Cost	\$	\$4,133,786	?								
Tax												
	Is owner a taxable entity?	%	Yes	?								
	Federal Income Tax Rate	%	21.0%	?								
	Federal Tax Benefits used as generated or carried forward?	%	As Generated	?								
	State Income Tax Rate	%	9.50%	?								
	State Tax Benefits used as generated or carried forward?	%	As Generated	?								
	Effective Income Tax Rate	%	28.51%	?								
	Depreciation Allocation		see table ==>	?								
Cost-Based Tariff Rate Structure												
	Payment Duration for Cost-Based Tariff	years	15	?								
	% of Year-One Tariff Rate Escalated	%	0.0%	?								
	Cost-Based Tariff Escalation Rate	%	0.0%	?								
Forecasted Market Value of Production; applies after Incentive Expiration												
	Select Market Value Forecast Methodology	Units	Input Value									
	Value of energy, capacity & RECS, Yr 1	¢/kWh	\$4.55	?								
	Market Value Escalation Rate	%	2.0%	?								
Federal Incentives												
	Select Form of Federal Incentive	Units	Input Value									
	Investment Tax Credit (ITC) or Cash Grant?		ITC	?								
	ITC or Cash Grant Amount	%	22%	?								
	ITC utilization factor, if applicable	%	100%	?								
	ITC or Cash Grant	\$	\$668,129	?								
Additional Federal Grants (Other than Section 1603)												
	Federal Grants Treated as Taxable Income?	\$	\$0	?								
State Rebates, Tax Credits and/or REC Revenue												
	Select Form of State Incentive	Units	Input Value									
	Additional State Rebates/Grants	\$/Watt	\$0.25	?								
	Total \$ Cap on State Rebates/Grants	\$	\$1,000,000	?								
	State Rebates/Grants Treated as Taxable Income?	Yes		?								
Capital Expenditures During Operations: Inverter Replacement												
	1st Equipment Replacement	year	10	?								
	1st Replacement Cost (\$ in year replaced)	\$/Watt dc	\$0.13	?								
	2nd Equipment Replacement	year		?								
	2nd Replacement Cost (\$ in year replaced)	\$/Watt dc		?								
Reserves Funded from Operations												
	Decommissioning Reserve	Units	Input Value									
	Fund from Operations or Salvage Value?		Operations	?								
	Reserve Requirement	\$	\$0	?								
Initial Funding of Reserve Accounts												
	Debt Service Reserve	Units	Input Value									
	# of months of Debt Service	months	6	?								
	Initial Debt Service Reserve	\$	\$77,086	?								
	O&M Reserve/Working Capital	Units	Input Value									
	# of months of O&M Expense	months	6	?								
	Initial O&M and WC Reserve	\$	\$28,393	?								
	Interest on All Reserves	%	2.0%	?								
Depreciation Allocation												
	Bonus Depreciation	Yes		?								
	% of Bonus Depreciation applied in Year 1	100%		?								
	Allocation of Costs	5-year MACRS	7-year MACRS	15-year MACRS	20-year MACRS	5-year SL	15-year SL	20-year SL	30-year SL	Non-Depreciable		
	Generation Equipment	96.0%	0.0%	2.0%	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%		
	Balance of Plant	50.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%		
	Interconnection	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Development Costs & Fee	80.0%	0.0%	0.0%	0.0%	0.0%	5.0%	5.0%	0.0%	10.0%		
	Reserves & Financing Costs	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%		

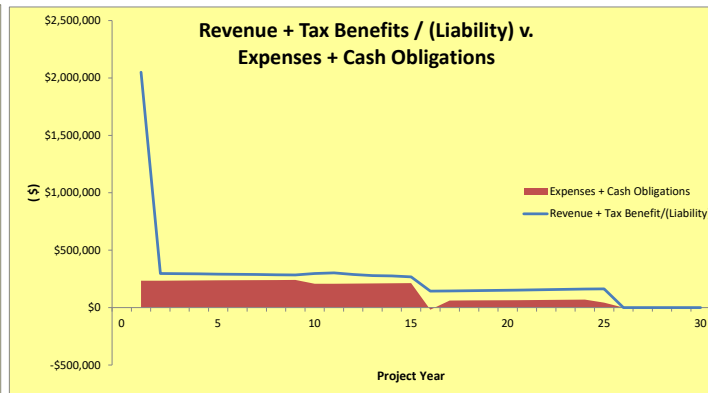
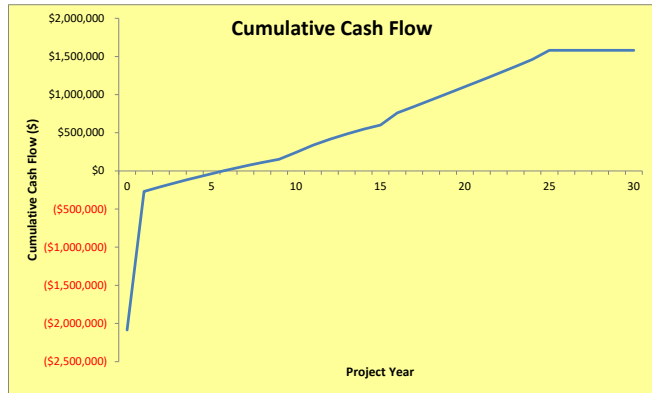
Lookup for State Average Capacity Factor	
State List	DC Capacity Factor
AK	9.0%
AL	15.1%
AR	15.1%
AZ	19.4%
CA	18.0%
CO	17.7%
CT	13.7%
DE	14.5%
FL	16.0%
GA	15.3%
HI	16.9%
IA	13.8%
ID	16.2%
IL	17.6%
IN	13.7%
KS	16.4%
KY	14.0%
LA	15.1%
MA	13.3%
MD	14.6%
ME	13.1%
MI	13.2%
MN	13.5%
MO	14.9%
MS	15.3%
MT	15.0%
NC	15.3%
ND	14.2%
NE	15.8%
NH	13.2%
NJ	14.5%
NM	15.5%
NV	18.6%
NY	13.3%
OH	13.2%
OK	16.5%
OR	14.6%
PA	13.5%
RI	13.8%
SC	15.8%
SD	14.8%
TN	14.9%
TX	16.2%
UT	17.9%
VA	14.9%
VT	12.9%
WA	13.2%
WI	13.7%
WV	13.1%
WY	17.1%

Unit Definitions

(kW) kilowatt – a standard measure of electrical capacity, equal to 1000 Watts.
 (kWh) kilowatt hour – a standard measure of electrical output. A 1 kW generator operating at rated capacity for one hour will produce 1 kWh of electricity.
 (DC) direct current – the unidirectional flow of electric charge
 (AC) alternating current – the multidirectional flow of electric charge
 (\$/kW-yr) – an annual expense (or revenue) based on generator capacity
 (\$) – All CREST model values are in nominal dollars
 (¢/kWh) –cents per kilowatt hour
 (%) – an input with units expressed as a percentage
 (years or year) – an input applicable to a specified duration or project year
 (\$/yr) – inputs measured in dollars and applied annually
 (months) –designates the number of months to which an input applies
 Pass/Fail – denotes whether the two debt service coverage ratio tests have passed or failed.

Annual Project Cash Flows, Returns & Other Metrics														
Project Year	Tariff or Market Value ¢/kWh	Revenue \$	Operating Expenses \$	Debt Service \$	Reserves \$	Pre-Tax Cash Flow \$	Federal Taxable Income \$	State Taxable Income \$	Federal Tax Benefit/(Liability) \$	State Tax Benefit/(Liability) \$	After Tax Cash Flow \$	Cumulative Cash Flow \$	After Tax IRR %	Debt Service Coverage
0														
1	11.75	\$364,042	(\$44,323)	(\$154,172)	(\$35,210)	\$130,338	(\$3,569,843)	(\$3,569,843)	\$1,346,578	\$339,135	\$1,816,051	(\$2,084,917)	-12.90%	1.85
2	11.75	\$362,939	(\$45,209)	(\$154,172)	(\$35,210)	\$128,348	\$231,748	\$231,748	(\$44,044)	(\$22,016)	\$62,288	(\$206,578)	-9.59%	1.83
3	11.75	\$361,844	(\$46,113)	(\$154,172)	(\$35,210)	\$126,349	\$233,841	\$233,841	(\$44,441)	(\$22,215)	\$59,693	(\$146,886)	-6.43%	1.82
4	11.75	\$360,758	(\$47,035)	(\$154,172)	(\$35,210)	\$124,341	\$236,170	\$236,170	(\$44,884)	(\$22,436)	\$57,021	(\$89,865)	-3.65%	1.81
5	11.75	\$359,682	(\$47,976)	(\$154,172)	(\$35,210)	\$122,324	\$238,750	\$238,750	(\$45,374)	(\$22,681)	\$54,268	(\$35,597)	-1.33%	1.79
6	11.75	\$358,614	(\$48,936)	(\$154,172)	(\$35,210)	\$120,296	\$241,595	\$241,595	(\$45,915)	(\$22,952)	\$51,430	\$15,833	0.55%	1.78
7	11.75	\$357,555	(\$49,914)	(\$154,172)	(\$35,210)	\$118,259	\$244,723	\$244,723	(\$46,510)	(\$23,249)	\$48,500	\$64,333	2.05%	1.77
8	11.75	\$356,505	(\$50,913)	(\$154,172)	(\$35,210)	\$116,210	\$248,150	\$248,150	(\$47,161)	(\$23,574)	\$45,475	\$109,808	3.23%	1.75
9	11.75	\$355,463	(\$51,931)	(\$154,172)	(\$35,210)	\$114,151	\$251,894	\$251,894	(\$47,872)	(\$23,930)	\$42,348	\$152,157	4.17%	1.74
10	11.75	\$350,910	(\$52,969)	(\$154,172)	\$0	\$143,769	\$189,075	\$189,075	(\$35,934)	(\$17,962)	\$89,873	\$242,029	5.77%	1.93
11	11.75	\$346,013	(\$54,029)	(\$154,172)	\$0	\$137,812	\$151,612	\$151,612	(\$28,814)	(\$14,403)	\$94,595	\$336,624	7.06%	1.89
12	11.75	\$344,293	(\$55,109)	(\$154,172)	\$0	\$135,012	\$196,287	\$196,287	(\$37,304)	(\$18,647)	\$79,060	\$415,685	7.91%	1.88
13	11.75	\$342,582	(\$56,212)	(\$154,172)	\$0	\$132,199	\$225,138	\$225,138	(\$42,788)	(\$21,388)	\$68,023	\$483,708	8.51%	1.86
14	11.75	\$340,880	(\$57,336)	(\$154,172)	\$0	\$129,372	\$230,079	\$230,079	(\$43,726)	(\$21,857)	\$63,789	\$547,497	8.97%	1.84
15	11.75	\$339,186	(\$58,483)	(\$154,172)	\$0	\$126,532	\$253,724	\$253,724	(\$48,220)	(\$24,104)	\$54,208	\$601,705	9.31%	1.82
16	6.12	\$176,080	(\$59,652)	\$0	\$77,086	\$193,514	\$116,428	\$116,428	(\$22,127)	(\$11,061)	\$160,326	\$762,031	10.12%	N/A
17	6.24	\$177,913	(\$60,845)	\$0	\$0	\$117,068	\$117,068	\$117,068	(\$22,249)	(\$11,121)	\$83,698	\$845,728	10.45%	N/A
18	6.37	\$180,556	(\$62,062)	\$0	\$0	\$118,493	\$118,493	\$118,493	(\$22,520)	(\$11,257)	\$84,717	\$930,445	10.74%	N/A
19	6.50	\$183,237	(\$63,303)	\$0	\$0	\$119,934	\$119,934	\$119,934	(\$22,793)	(\$11,394)	\$85,747	\$1,016,192	10.99%	N/A
20	6.63	\$185,959	(\$64,570)	\$0	\$0	\$121,390	\$121,390	\$121,390	(\$23,070)	(\$11,532)	\$86,788	\$1,102,980	11.20%	N/A
21	6.76	\$188,722	(\$65,861)	\$0	\$0	\$122,861	\$122,861	\$122,861	(\$23,350)	(\$11,672)	\$87,839	\$1,190,819	11.38%	N/A
22	6.89	\$191,525	(\$67,178)	\$0	\$0	\$124,347	\$124,347	\$124,347	(\$23,632)	(\$11,813)	\$88,902	\$1,279,721	11.54%	N/A
23	7.03	\$194,370	(\$68,522)	\$0	\$0	\$125,849	\$125,849	\$125,849	(\$23,918)	(\$11,956)	\$89,975	\$1,369,696	11.67%	N/A
24	7.17	\$197,258	(\$69,892)	\$0	\$0	\$127,366	\$127,366	\$127,366	(\$24,206)	(\$12,100)	\$91,060	\$1,460,757	11.79%	N/A
25	7.32	\$199,905	(\$71,290)	\$0	\$28,393	\$157,008	\$128,615	\$128,615	(\$24,443)	(\$12,218)	\$120,346	\$1,581,103	11.92%	N/A
26														
27														
28														
29														
30														

Graph Data	
Revenue + Tax Benefit/(Liability)	Expenses + Cash Obligations
\$2,049,755	\$233,704
\$296,879	\$234,591
\$295,188	\$235,495
\$293,438	\$236,417
\$291,626	\$237,358
\$289,747	\$238,318
\$287,797	\$239,296
\$285,770	\$240,295
\$283,661	\$241,313
\$297,014	\$207,141
\$302,796	\$208,200
\$288,342	\$209,281
\$278,407	\$210,383
\$275,296	\$211,507
\$266,862	\$212,654
\$142,893	(\$17,434)
\$144,543	\$60,845
\$146,779	\$62,062
\$149,050	\$63,303
\$151,357	\$64,570
\$153,700	\$65,861
\$156,080	\$67,178
\$158,497	\$68,522
\$160,952	\$69,892
\$163,243	\$42,897



18	287	\$0	\$16,067	\$15,004	\$15,718	\$16,432	\$17,147
19	286	\$0	\$15,986	\$14,929	\$15,639	\$16,350	\$17,061
20	284	\$0	\$15,907	\$14,854	\$15,561	\$16,269	\$16,976

		ABP DG (15 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	Year	Production	ABP DG Spend	ABP Public Schools Spend	ABP Public Schools Spend (105%)	ABP Public Schools Spend (110%)	ABP Public Schools Spend (115%)	ABP Public Schools Spend (120%)	
System Size (kW AC)	100							1	159	\$16,939	\$8,795	\$8,185	\$8,575	\$8,965	\$9,355	
System Size (kW DC)	119	% Increase over ABP DG	n/a	113%	105%	110%	115%	120%	2	158	\$15,998	\$8,751	\$8,144	\$8,532	\$8,920	\$9,308
AC/DC Ratio	83.86%	REC Price (\$/REC)	\$49.11	\$55.40	\$51.56	\$54.02	\$56.47	\$58.93	3	157	\$15,998	\$8,707	\$8,104	\$8,490	\$8,876	\$9,261
Capacity Factor	15.20%	Total Production (MWh)	2,300	3,029	3,029	3,029	3,029	3,029	4	156	\$15,998	\$8,664	\$8,063	\$8,447	\$8,831	\$9,215
Year 1 Production (MWh)	159	Total Value (\$)	\$112,929	\$167,791	\$156,161	\$163,597	\$171,033	\$178,469	5	156	\$15,998	\$8,620	\$8,023	\$8,405	\$8,787	\$9,169
Annual Production Degradation Factor	0.5%	Net Present Value	\$84,840	\$84,840	\$78,959	\$82,719	\$86,479	\$90,239	6	155	\$15,998	\$8,577	\$7,983	\$8,363	\$8,743	\$9,123
Discount Factor	7.7%								7	154	\$15,998	\$8,534	\$7,943	\$8,321	\$8,699	\$9,078
									8	153	\$0	\$8,492	\$7,903	\$8,280	\$8,656	\$9,032
									9	153	\$0	\$8,449	\$7,864	\$8,238	\$8,613	\$8,987
									10	152	\$0	\$8,407	\$7,824	\$8,197	\$8,570	\$8,942
y	110%								11	151	\$0	\$8,365	\$7,785	\$8,156	\$8,527	\$8,897
x	\$82,719	\$86,479	\$84,840						12	150	\$0	\$8,323	\$7,746	\$8,115	\$8,484	\$8,853
m	1.3298E-05								13	149	\$0	\$8,282	\$7,708	\$8,075	\$8,442	\$8,809
b	-3.33067E-15								14	149	\$0	\$8,240	\$7,669	\$8,034	\$8,399	\$8,765
									15	148	\$0	\$8,199	\$7,631	\$7,994	\$8,357	\$8,721
									16	147	\$0	\$8,158	\$7,593	\$7,954	\$8,316	\$8,677
									17	147	\$0	\$8,117	\$7,555	\$7,914	\$8,274	\$8,634
									18	146	\$0	\$8,077	\$7,517	\$7,875	\$8,233	\$8,591
									19	145	\$0	\$8,036	\$7,479	\$7,835	\$8,192	\$8,548
									20	144	\$0	\$7,996	\$7,442	\$7,796	\$8,151	\$8,505

		ABP DG (15 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	Year	Production	ABP DG Spend	ABP Public Schools Spend	ABP Public Schools Spend (105%)	ABP Public Schools Spend (110%)	ABP Public Schools Spend (115%)	ABP Public Schools Spend (120%)	
System Size (kW AC)	25							1	40	\$4,978	\$2,578	\$2,405	\$2,520	\$2,634	\$2,749	
System Size (kW DC)	30	% Increase over ABP DG	n/a	113%	105%	110%	115%	120%	2	40	\$4,701	\$2,565	\$2,393	\$2,507	\$2,621	\$2,735
AC/DC Ratio	83.15%	REC Price (\$/REC)	\$57.49	\$64.68	\$60.36	\$63.23	\$66.11	\$68.98	3	39	\$4,701	\$2,552	\$2,381	\$2,495	\$2,608	\$2,722
Capacity Factor	15.13%	Total Production (MWh)	577	760	760	760	760	760	4	39	\$4,701	\$2,539	\$2,368	\$2,482	\$2,595	\$2,708
Year 1 Production (MWh)	40	Total Value (\$)	\$33,185	\$49,176	\$45,888	\$48,073	\$50,259	\$52,444	5	39	\$4,701	\$2,526	\$2,356	\$2,470	\$2,582	\$2,694
Annual Production Degradation Factor	0.5%	Net Present Value	\$24,987	\$24,987	\$23,316	\$24,426	\$25,536	\$26,647	6	39	\$4,701	\$2,514	\$2,346	\$2,457	\$2,569	\$2,681
Discount Factor	7.70%								7	39	\$4,701	\$2,501	\$2,334	\$2,445	\$2,556	\$2,667
									8	38	\$0	\$2,489	\$2,322	\$2,433	\$2,544	\$2,654
									9	38	\$0	\$2,476	\$2,311	\$2,421	\$2,531	\$2,641
									10	38	\$0	\$2,464	\$2,299	\$2,409	\$2,518	\$2,628
y	110%								11	38	\$0	\$2,452	\$2,288	\$2,397	\$2,506	\$2,615
x	\$24,426	\$25,536	\$24,987						12	38	\$0	\$2,439	\$2,276	\$2,385	\$2,493	\$2,601
m	4.50337E-05								13	38	\$0	\$2,427	\$2,265	\$2,373	\$2,481	\$2,588
b	-4.44089E-15								14	37	\$0	\$2,415	\$2,254	\$2,361	\$2,468	\$2,576
									15	37	\$0	\$2,403	\$2,242	\$2,349	\$2,456	\$2,563
									16	37	\$0	\$2,391	\$2,231	\$2,337	\$2,444	\$2,550
									17	37	\$0	\$2,379	\$2,220	\$2,326	\$2,431	\$2,537
									18	37	\$0	\$2,367	\$2,209	\$2,314	\$2,419	\$2,524
									19	36	\$0	\$2,355	\$2,198	\$2,302	\$2,407	\$2,512
									20	36	\$0	\$2,343	\$2,187	\$2,291	\$2,395	\$2,499

15	272	\$0	\$14,819	\$13,838	\$14,497	\$15,156	\$15,815
16	271	\$0	\$14,745	\$13,769	\$14,425	\$15,080	\$15,736
17	270	\$0	\$14,671	\$13,700	\$14,352	\$15,005	\$15,657
18	268	\$0	\$14,598	\$13,632	\$14,281	\$14,930	\$15,579
19	267	\$0	\$14,525	\$13,563	\$14,209	\$14,855	\$15,501
20	266	\$0	\$14,452	\$13,496	\$14,138	\$14,781	\$15,424

		ABP DG (15 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	Year	Production	ABP DG Spend	ABP Public Schools Spend	ABP Public Schools Spend (105%)	ABP Public Schools Spend (110%)	ABP Public Schools Spend (115%)	ABP Public Schools Spend (120%)
System Size (kW AC)	100								1	149	\$16,650	\$8,645	\$8,046	\$8,429	\$8,812	\$9,195
System Size (kW DC)	119	% Increase over ABP DG	n/a	113%	105%	110%	115%	120%	2	149	\$15,725	\$8,602	\$8,006	\$8,387	\$8,768	\$9,149
AC/DC Ratio	83.93%	REC Price (\$/REC)	\$51.32	\$57.90	\$53.88	\$56.45	\$59.02	\$61.58	3	148	\$15,725	\$8,559	\$7,966	\$8,345	\$8,724	\$9,103
Capacity Factor	14.31%	Total Production (MWh)	2,163	2,849	2,849	2,849	2,849	2,849	4	147	\$15,725	\$8,516	\$7,926	\$8,303	\$8,681	\$9,058
Year 1 Production (MWh)	149	Total Value (\$)	\$111,003	\$164,928	\$153,496	\$160,806	\$168,115	\$175,424	5	146	\$15,725	\$8,473	\$7,886	\$8,262	\$8,637	\$9,013
Annual Production Degradation Factor	0.5%	Net Present Value	\$83,392	\$83,392	\$77,612	\$81,308	\$85,003	\$88,699	6	146	\$15,725	\$8,431	\$7,847	\$8,220	\$8,594	\$8,968
Discount Factor	7.77%								7	145	\$15,725	\$8,389	\$7,807	\$8,179	\$8,551	\$8,923
									8	144	\$0	\$8,347	\$7,768	\$8,138	\$8,508	\$8,878
									9	143	\$0	\$8,305	\$7,730	\$8,098	\$8,466	\$8,834
									10	143	\$0	\$8,264	\$7,691	\$8,057	\$8,423	\$8,790
y	110%								11	142	\$0	\$8,222	\$7,652	\$8,017	\$8,381	\$8,746
x	\$81,308	\$85,003	\$83,392						12	141	\$0	\$8,181	\$7,614	\$7,977	\$8,339	\$8,702
m	1.35289E-05								13	141	\$0	\$8,140	\$7,576	\$7,937	\$8,298	\$8,658
b	-4.88498E-15								14	140	\$0	\$8,100	\$7,538	\$7,897	\$8,256	\$8,615
									15	139	\$0	\$8,059	\$7,501	\$7,858	\$8,215	\$8,572
									16	138	\$0	\$8,019	\$7,463	\$7,818	\$8,174	\$8,529
									17	138	\$0	\$7,979	\$7,426	\$7,779	\$8,133	\$8,487
									18	137	\$0	\$7,939	\$7,389	\$7,740	\$8,092	\$8,444
									19	136	\$0	\$7,899	\$7,352	\$7,702	\$8,052	\$8,402
									20	136	\$0	\$7,860	\$7,315	\$7,663	\$8,012	\$8,360

		ABP DG (15 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	ABP Public Schools (20 years)	Year	Production	ABP DG Spend	ABP Public Schools Spend	ABP Public Schools Spend (105%)	ABP Public Schools Spend (110%)	ABP Public Schools Spend (115%)	ABP Public Schools Spend (120%)	
System Size (kW AC)	25								1	35	\$4,570	\$2,366	\$2,208	\$2,313	\$2,418	\$2,524
System Size (kW DC)	30	% Increase over ABP DG	n/a	113%	105%	110%	115%	120%	2	35	\$4,316	\$2,355	\$2,197	\$2,302	\$2,406	\$2,511
AC/DC Ratio	82.71%	REC Price (\$/REC)	\$59.63	\$67.10	\$62.61	\$65.60	\$68.58	\$71.56	3	35	\$4,316	\$2,343	\$2,186	\$2,290	\$2,394	\$2,498
Capacity Factor	13.32%	Total Production (MWh)	511	673	673	673	673	673	4	35	\$4,316	\$2,331	\$2,175	\$2,279	\$2,382	\$2,486
Year 1 Production (MWh)	35	Total Value (\$)	\$30,464	\$45,145	\$42,126	\$44,133	\$46,139	\$48,145	5	35	\$4,316	\$2,319	\$2,164	\$2,267	\$2,370	\$2,473
Annual Production Degradation Factor	0.5%	Net Present Value	\$22,938	\$22,938	\$21,405	\$22,424	\$23,443	\$24,462	6	34	\$4,316	\$2,308	\$2,153	\$2,256	\$2,359	\$2,461
Discount Factor	7.70%								7	34	\$4,316	\$2,296	\$2,143	\$2,245	\$2,347	\$2,449
									8	34	\$0	\$2,285	\$2,132	\$2,234	\$2,335	\$2,437
									9	34	\$0	\$2,273	\$2,121	\$2,222	\$2,323	\$2,424
									10	34	\$0	\$2,262	\$2,111	\$2,211	\$2,312	\$2,412
y	110%								11	34	\$0	\$2,251	\$2,100	\$2,200	\$2,300	\$2,400
x	\$22,424	\$23,443	\$22,938						12	33	\$0	\$2,239	\$2,090	\$2,189	\$2,289	\$2,388
m	4.90551E-05								13	33	\$0	\$2,228	\$2,079	\$2,178	\$2,277	\$2,376
b	8.88178E-16								14	33	\$0	\$2,217	\$2,069	\$2,167	\$2,266	\$2,364
									15	33	\$0	\$2,206	\$2,058	\$2,157	\$2,255	\$2,353
									16	33	\$0	\$2,195	\$2,048	\$2,146	\$2,243	\$2,341
									17	33	\$0	\$2,184	\$2,038	\$2,135	\$2,232	\$2,329
									18	32	\$0	\$2,173	\$2,028	\$2,124	\$2,221	\$2,317
									19	32	\$0	\$2,162	\$2,018	\$2,114	\$2,210	\$2,306
									20	32	\$0	\$2,151	\$2,008	\$2,103	\$2,199	\$2,294

Distributed Generation								
Generator Nameplate Capacity	kW ac	10	25	100	200	500	2000	5000
Generator Nameplate Capacity	kW dc	12	30	119	241	602	2438	6094
AC to DC Conversion Factor	%	0.804361003	0.831489382	0.838614163	0.82971904	0.83	0.82	0.82
Net Capacity Factor	%	0.14884	0.1513	0.15197	0.14819	0.15303	0.14411	0.14411
Generation Equipment	\$	\$11,603	\$27,954	\$110,865	\$236,904	\$532,544	\$2,139,423	\$4,373,122
Balance of Plant	\$	\$6,552	\$14,034	\$55,580	\$97,459	\$222,859	\$868,319	\$2,177,591
Interconnection	\$	\$200	\$200	\$14,899	\$23,562	\$49,009	\$185,042	\$392,460
Development Costs & Fee	\$	\$10,950	\$9,977	\$39,569	\$73,078	\$173,255	\$686,182	\$616,722
Project Management Yr 1	\$/yr	\$62.16	\$150.33	\$596.22	\$1,205.23	\$3,011.48	\$12,188.19	\$30,470.47
Property Tax or PILOT, Yr 1	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Land Lease	\$/yr	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction Period	months	6	12	12	12	12	12	12
% Debt (% of hard costs) (mortgage-style amort.)	years	45%	45%	45%	45%	45%	45%	45%
Debt Term	years	15	15	15	15	15	15	15
Target After-Tax Equity IRR	%	12%	12%	12%	12%	12%	12%	12%
State Income Tax Rate	%	4.95%	9.50%	9.50%	9.50%	9.50%	9.50%	9.50%
Payment Duration for Cost-Based Tariff	years	15	15	15	15	15	15	15
Value of energy, capacity & REC, Yr 1	¢/kWh	\$8.05	\$4.55	\$4.55	\$4.55	\$4.55	\$4.55	\$4.55
Additional State Rebates/Grants	\$/Watt	\$0.00	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25
Net Replacement Cost (\$ in year replaced)	\$/Watt dc	\$0.21	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13
Taxable Entity	Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Net Metering Credit	\$	\$2,854,390	\$1,612,095	\$1,612,095	\$1,612,095	\$1,612,095	\$1,612,095	\$1,612,095
Subscriber Savings	%	20%	20%	20%	20%	20%	20%	20%
% of Net Metering Value Allocated	%	80%	80%	80%	80%	80%	80%	80%

Inputs	
Facility Size (kW ac)	2000
Facility Size (kW dc)	2438
Outputs	
25-yr Present Value Cost of Energy (\$)	\$3,543,713
25-yr Present Value Net Metering Credit (\$)	\$1,612,095
Revenue Shortfall (\$)	\$1,931,619
15-yr REC production (MWh)	44,578
2000 kW Net LCOE (\$/REC)	\$43.33

Group A Adjustable Block Program Distributed Generation	Group A	Adjustable Block Program Distributed Generation	1	
Group A Adjustable Block Program Community Solar	Group A	Adjustable Block Program Community Solar	2	
Group A Adjustable Block Program Community-driven Solar	Group A	Adjustable Block Program Community-driven Solar	3	
Group B Adjustable Block Program Distributed Generation	Group B	Adjustable Block Program Distributed Generation	5	
Group B Adjustable Block Program Community Solar	Group B	Adjustable Block Program Community Solar	6	
Group B Adjustable Block Program Community-driven Solar	Group B	Adjustable Block Program Community-driven Solar	7	
Group All Solar for All Distributed Generation (1-4 Unit)	Group A	IL Solar for All	Distributed Generation (1-4 Unit)	1
Group All Solar for All Distributed Generation (5+ Units)	Group A	IL Solar for All	Distributed Generation (5+ Units)	2
Group All Solar for All Low-income Community Solar	Group A	IL Solar for All	Low-income Community Solar	3
Group All Solar for All Non-profit & Public Facility	Group A	IL Solar for All	Non-profit & Public Facility	4
Group BIL Solar for All Distributed Generation (1-4 Unit)	Group B	IL Solar for All	Distributed Generation (1-4 Unit)	5
Group BIL Solar for All Distributed Generation (5+ Units)	Group B	IL Solar for All	Distributed Generation (5+ Units)	6
Group BIL Solar for All Low-income Community Solar	Group B	IL Solar for All	Low-income Community Solar	7
Group BIL Solar for All Non-profit & Public Facility	Group B	IL Solar for All	Non-profit & Public Facility	8

Adjustable Block Program	IL Solar for All
Distributed Generation	Distributed Generation (1-4 Unit)
Community Solar	Distributed Generation (5+ Units)
Community-driven Solar	Low-income Community Solar
	Non-profit & Public Facility