NRG Energy, Inc.

City of Greenbelt Solar

Maryland Aggregate Net Energy Metering (ANEM)

Q1 2017

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Committed to a CLEAN ENERGY FUTURE

At NRG, our position as the country's leading integrated competitive power company means we develop and deliver solutions for businesses that are reliable, efficient, diverse and sustainable. For many customers this results in energy that is stronger, smarter and cleaner, while pioneering towards an enduring energy future. And, these solutions are backed by an equally flexible and streamlined approach to financing and installation to ensure solution recommendations align with business reality.

A FORTUNE
200
and S&P 500 COMPANY

ONE OF THE NATION'S LARGEST
SOLAR
POWER GENERATORS

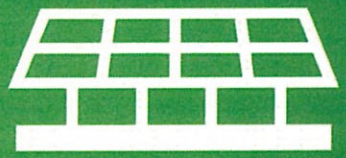
APPROXIMATELY
50,000 MW
OF GENERATING CAPACITY

NEARLY
3 MILLION
RECURRING RETAIL CUSTOMERS
THROUGH OUR RETAIL BRANDS

OWNERSHIP INTEREST IN
NEARLY 140 POWER-GENERATION
FACILITIES ACROSS
29 STATES

Why NRG

Experience



NRG is the largest operator of Community Solar in the U.S.

Presence

NRG owns and operates over 2.5 GW of power plant capacity throughout Maryland

Over 300 acres of owned land available for solar development

Innovation

NRG executed one of the first Tax Equity financed Community Solar projects

NRG has a strong record of partnering with developers to execute on solar projects.

MD ANEM Executive Summary

- 2.6 MW_{dc} system
- No upfront capital
- PPA
- Lower energy bills / predictable power cost
- Same service territory
- Promote Clean Power in MD

ANEM Credit Overview

- Volumetric kWh credits that offset kWh consumed
- Occurs prior to billing and reduces kWh billed by both the utility and third-party supplier (if applicable)

  kWh billed = kWh consumed – kWh credits

- Saves the customer money at the full retail rate by reducing the kWh for which they are charged

ANEM Credit Example

kWh billed = kWh consumed – kWh credits

= 70,470 kWh – 15,431 kWh

= 55,039 kWh

Savings = kWh credits * (Retail Rate – PPA Rate)

= 15,431 kWh * ($0.0995 - $0.0785)/kWh

= 15,431 kWh * $0.0210/kWh

= $324.05

Excess Generation Summary

	OffPeak
Credit kWh Balance from your last bill	0
Adjustments	0
Current month usage KWH	70470
Current month generation KWH	-15431
Total kWh balance	**55039**
Credit kWh Expired on Anniversary	0
Credit kWh Balance	**0**

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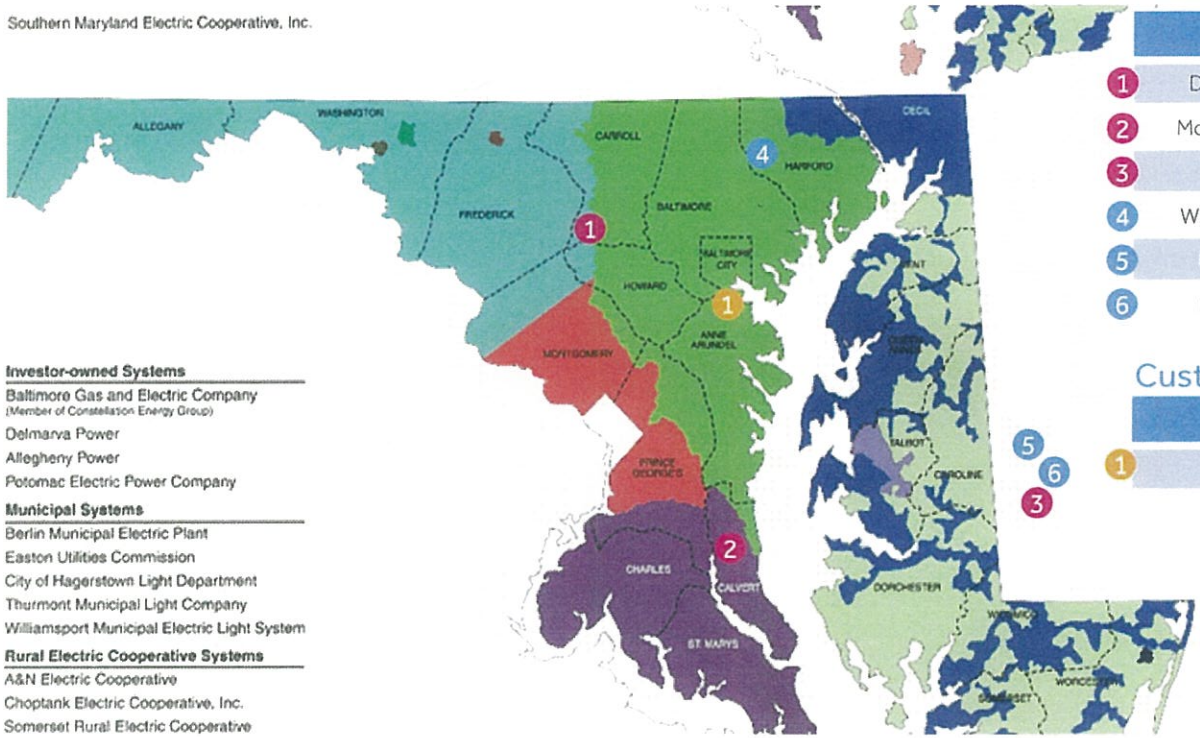
ANEM Site Requirements

1. Solar project location must be within same utility service territory as the City of Greenbelt's utility accounts.
2. City of Greenbelt must have site control at the solar project site, meaning the solar project must be built on land that City of Greenbelt owns, leases, or on land that would be sub-leased to City of Greenbelt from NRG (see NRG project sites listed #1-6 below).

Southern Maryland Electric Cooperative, Inc.



Investor-owned Systems

Baltimore Gas and Electric Company
(Member of Constellation Energy Group)
Delmarva Power
Allegheny Power
Potomac Electric Power Company

Municipal Systems

Berlin Municipal Electric Plant
Easton Utilities Commission
City of Hagerstown Light Department
Thurmont Municipal Light Company
Williamsport Municipal Electric Light System

Rural Electric Cooperative Systems

A&N Electric Cooperative
Choptank Electric Cooperative, Inc.
Somerset Rural Electric Cooperative

NRG Project Locations:

	City	Utility Territory	Ownership
1	Dickerson	Potomac Edison	NRG Owned
2	Morgantown	SMECO	NRG Owned
3	Vienna	DPL	NRG Owned
4	Windsor Mill	BG&E	Leased
5	Hurlock	DPL	Leased
6	Hurlock	Choptank	Leased

Customer Locations:

	Location	Utility Territory
1	City of Greenbelt	PEPCO

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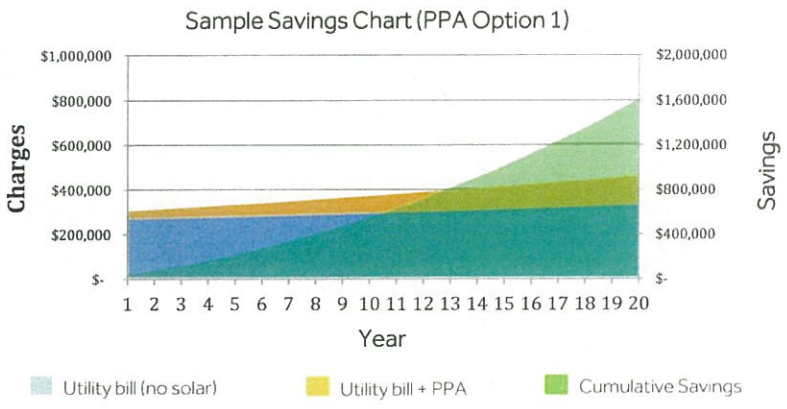
3 PPA Options – PEPCO

Assumptions	
Solar Capacity	1.0 MW AC
Year 1 Production	2,119,000 kWh
Retail Rate* ($/kWh)	$0.0993
Utility Escalator	2.25%



Pricing Options	Option 1	Option 2	Option 3
PPA Rate ($/kWh)	$0.0835	$0.0775	$0.0725
PPA Escalator	0.00%	1.00%	2.00%
PPA Term	20 Yr	20 Yr	20 Yr
Year 1 Savings*	$33,423	$46,137	$56,732
20 Year Savings*	$1,604,731	$1,536,722	$1,431,373
NPV (3% Discount Rate)	$1,119,338	$1,093,402	$1,040,678

*Customer utility data and bills will need to be collected to determine the actual Retail Rate.
Estimates assume Schedule MGT LV II with a $0.0650/kWh supply rate

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NRG ANEM Project Example

Cecil College is a community college in North East, MD that falls within the Delmarva Power (DPL) service territory.

The College issued an RFP in March 2016 for 2 MW of solar PV generation.

As a not-for-profit entity, Cecil College is eligible for Aggregated Net Energy Metering (ANEM).

NRG owns land adjacent to the Company's generating facility in Vienna, MD that is also serviced by DPL.

NRG responded to the RFP with a proposal to build a 2.6 MW DC/2 MW AC solar PV system on the Company's acreage in Vienna, MD.

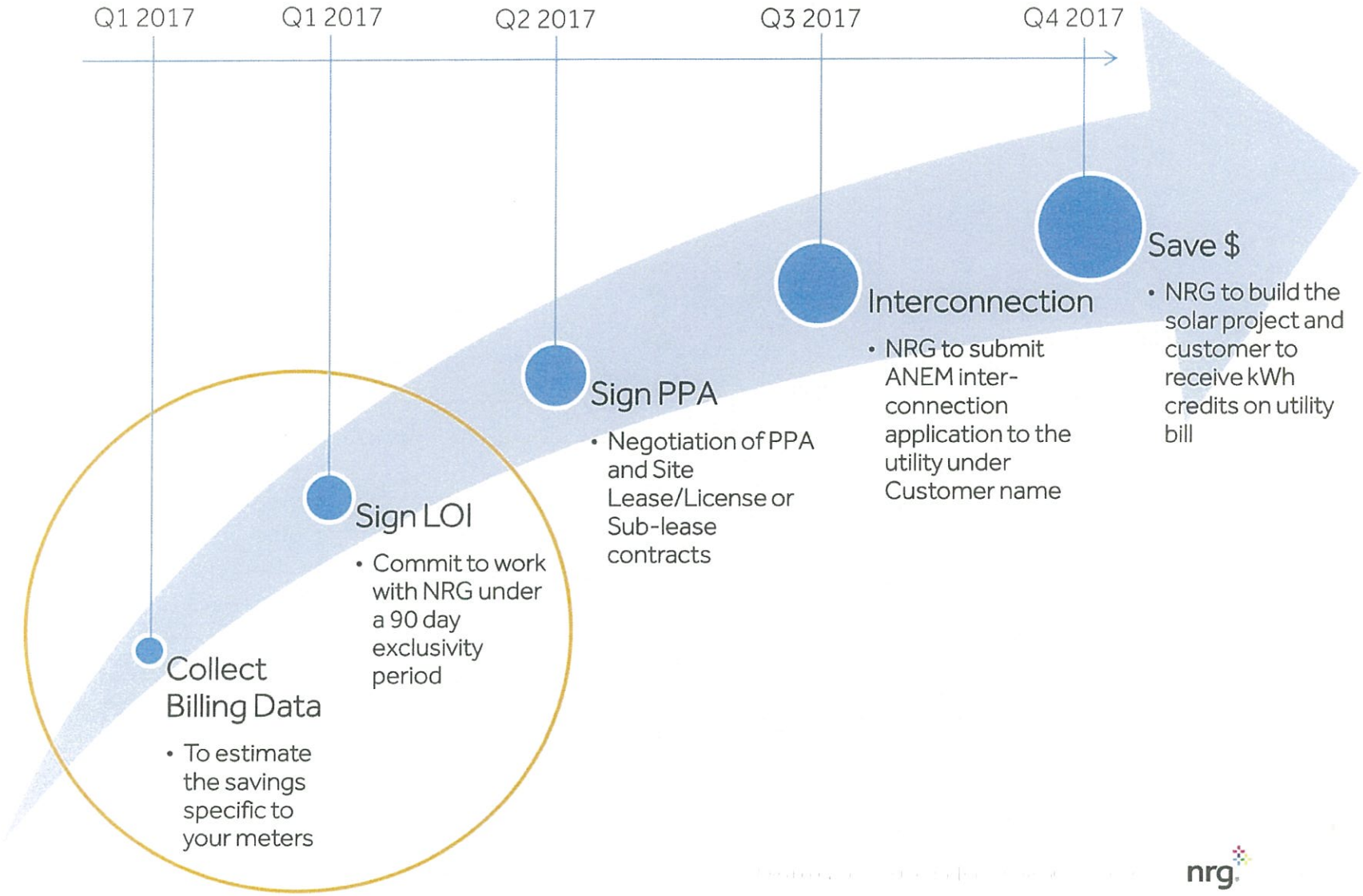
Project was awarded to NRG in July 2016 and is under active development.

Size (kW_{DC} / kW_{AC})	2,600	2,000
Configuration	Single-axis tracking ground-mount	
Location	Vienna, MD	
Utility territory	Delmarva Power (DPL)	
Offtaker	Cecil College	
Project type	Aggregated Net Metering (ANEM)	

Cecil College, North East, MD

NRG Power Plant, Vienna, MD

Next Steps



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Appendix

ANEM Policy Overview

Who is eligible?

Agricultural entities, Not-for-Profit organizations , and Municipal Governments or affiliates

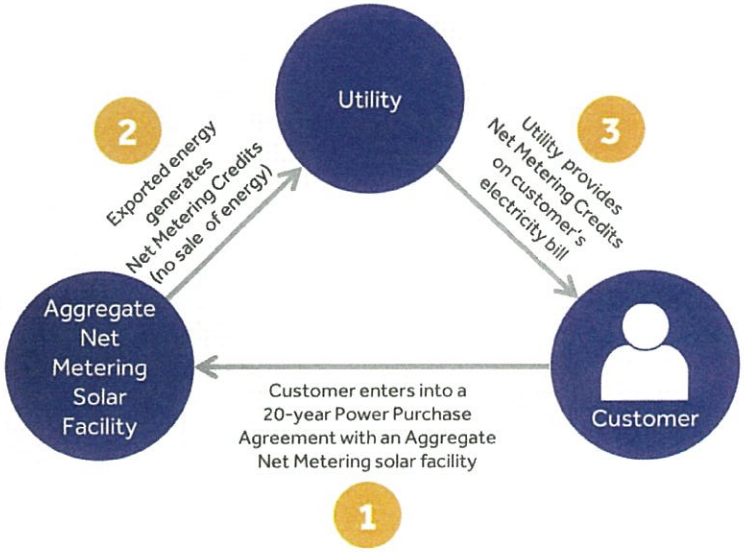
How does it work?

Your monthly utility bill will list the **kWh consumed** at each meter less credits for the **kWh generated** by solar to determine the net **kWh billable** for that month. The value of each kWh credit is equal to the volumetric components of all supply charges, transmission and distribution charges, and administrative charges associated with electrical service at the meters you choose to aggregate.

Excess kWh credits roll over to the next month up until the end of the annual billing cycle in April.

Any excess kWh credits remaining at the end of the annual billing cycle are valued at the average supply rate over the last twelve months and paid out to you in cash.

kWh consumed
\- kWh generated
kWh billable



Link for more info: http://www.psc.state.md.us/wp-content/uploads/2015-MD-PSC-Report-on-the-Status-of-Net-Metering-Report.pdf

Specifics about Meters & Aggregation:

Meters must fall within the same service territory as the solar project and must all be served by the same electric supply company.

Max 2.0 MW AC per solar project or 200% of aggregated annual usage.

What are the Site Control requirements?

Land must be owned, leased or licensed by the customer, or land must be owned or leased by NRG with a sub-lease to the customer.

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Retail Rate Calculation - PEPCO

Rate Schedule		MGT LV II	
Supply	Third-Party Supply Rate (Assumed)	$	0.065000
Delivery	Distribution Service Charge	$	0.013390
Transmission	Transmission Rate	$	-
Riders	Administrative Credit	$	-
	Bill Stabilization Adjustment	$	0.002191
	Delivery Tax Surcharge	$	0.000620
	Demand Resource Surcharge	$	-
	Empower MD Charge	$	0.007875
	MD Environmental Surcharge	$	0.000146
	Gross Receipts Tax	$	0.000685
	Prince George's County Tax	$	0.009366
	Total	$	0.099273