

# NY-Sun Performance-Based (>200kW) Program

November 14, 2014

Prepared for NYSERDA

Prepared by Clean Power Research

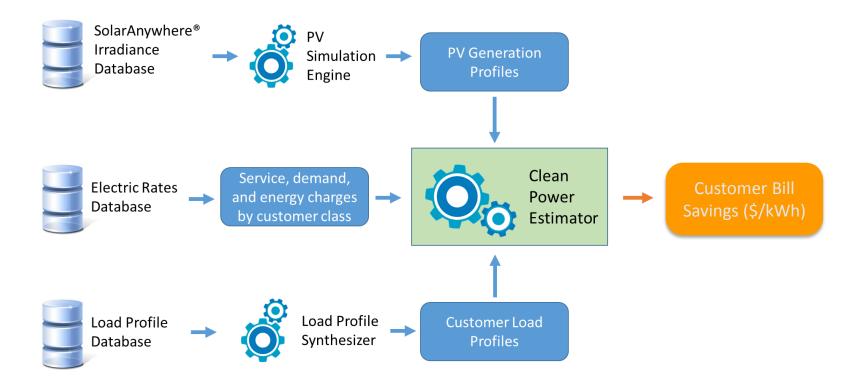
#### **Clean Power Estimator**

to 1.750

Dual-Atis traction

**PV System** 

 Clean Power Estimator takes into account PV production, electric rate structure, and customer load when calculating customer bill savings



## **Bill Analysis Components**

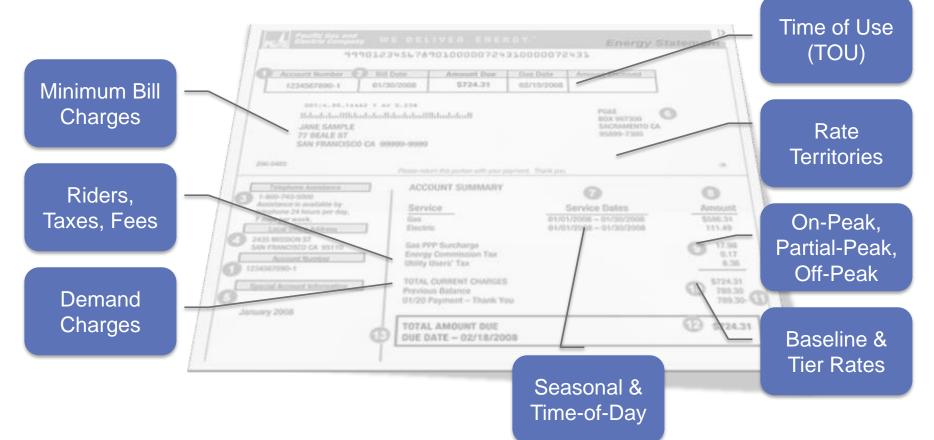
to 1.750

pv System

Ranges U Select

 The following utility bill components are accounted for when calculating customer bill savings in Clean Power Estimator

Dual-Alis Tracker South)



# Bill Savings by Utility

ConEd

to 1.750

**DV System** 

Analysis done in August 2014

ROS

 Bill savings is the customer's annual bill decrease divided by the annual energy production of the PV system

Dual-Atis traction

Region	Bill Savings n City (\$/kWh) Provider		Region	City	Bill Savings (\$/kWh)		Provider		
Zones I-	J New York, NY	\$	0.125	ConEd	Zones A-F	Buffalo, NY	\$	0.095	National Grid
	Yonkers, NY	\$	0.125	ConEd		Syracuse, NY	\$	0.095	National Grid
						Ithaca, NY	\$	0.084	NYSEG
\$0.125/kWh \$0.090/kWh -						Utica, NY	\$	0.095	National Grid
						Binghamton, NY	\$	0.084	NYSEG
						Schenectady, NY	\$	0.096	National Grid
						Oneonta, NY	\$	0.084	NYSEG
						Rochester, NY	\$	0.097	RG&E
<ul> <li>Analysis for large commercial</li> </ul>					Zones G-H	Middletown, NY	\$	0.079	CHG&E
						Middletown, NY	\$	0.127	O&R
rate classes					Poughkeepsie, NY	\$	0.079	CHG&E	
					Poughkeepsie, NY	\$	0.087	CHG&E	

### **Bill Savings**

Ranges

OSelect

pv System

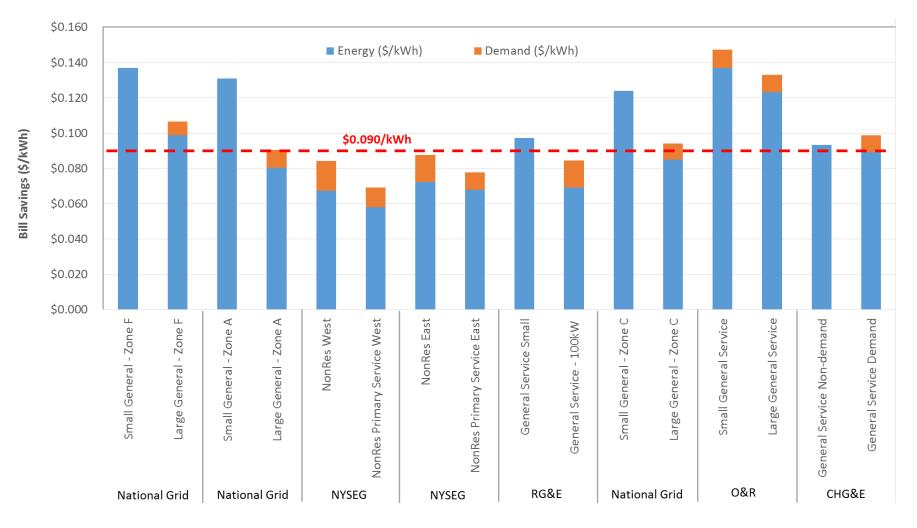
Analysis done in November 2014

200 kW PV system, south-facing with 20 deg tilt

10 1.750

Average of results from customer bill before PV of \$3,000/mo and \$10,000/mo

Dual-Alis Tracke



#### **Bill Savings**

Select

pv System

Analysis done in November 2014

200 kW PV system, south-facing with 20 deg tilt

to 1.750

Average of results from customer bill before PV of \$3,000/mo and \$10,000/mo

Dual-Alis Tracke South)

Zone	City	Provider	Rate Class	Energy Only Bill Savings (\$/kWh)	Bill Savings (\$/kWh)	Change (\$/kWh)
Zones A-F	Albany	National Grid	Small General - Zone F	\$0.137	\$0.137	n/a
	Albany	National Grid	Large General - Zone F	\$0.099	\$0.107	+\$0.011*
	Buffalo	National Grid	Small General - Zone A	\$0.131	\$0.131	n/a
	Buffalo	National Grid	Small General Demand - Zone A	\$0.084	\$0.098	n/a
	Buffalo	National Grid	Large General - Zone A	\$0.080	\$0.090	-\$0.005
	Ithaca	NYSEG	NonRes West	\$0.067	\$0.084	n/a
	Ithaca	NYSEG	NonRes Primary Service West	\$0.058	\$0.069	-\$0.015*
	Mechanicville	NYSEG	NonRes East	\$0.072	\$0.088	n/a
	Mechanicville	NYSEG	NonRes Primary Service East	\$0.068	\$0.078	n/a
	Rochester	RG&E	General Service Small	\$0.097	\$0.097	n/a
	Rochester	RG&E	General Service - 100kW	\$0.069	\$0.084	-\$0.013*
	Syracuse	National Grid	Small General - Zone C	\$0.124	\$0.124	n/a
	Syracuse	National Grid	Large General - Zone C	\$0.085	\$0.094	-\$0.001
Zones G-H	Middletown	O&R	Small General Service	\$0.137	\$0.147	n/a
	Middletown	O&R	Large General Service	\$0.123	\$0.133	+\$0.006
	Poughkeepsie Poughkeepsie	CHGE CHGE	General Service Non-demand General Service Demand	\$0.093 \$0.089	\$0.093 \$0.099	+\$0.014 +\$0.012