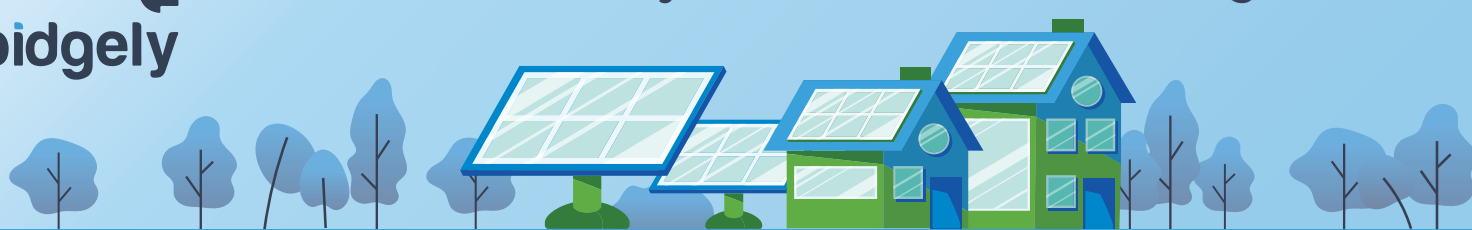




Using AMI Data to Facilitate PV Rate Making, Grid Stability and Peak Load Planning

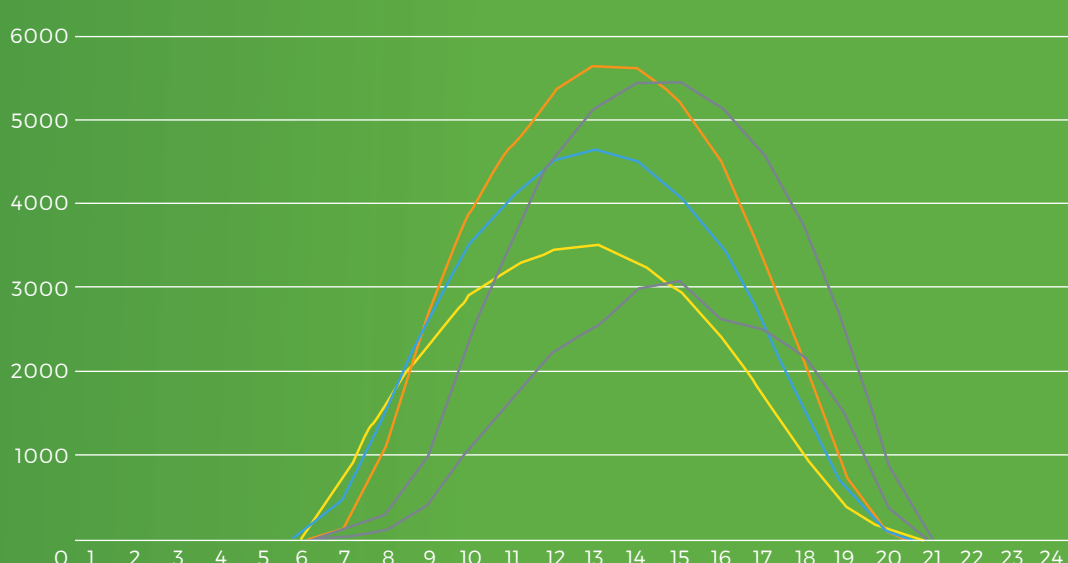


It is no longer necessary to deploy submetering. Instead, utilities can **leverage net consumption AMI data analysis** to simply, affordably and efficiently create an 8760-hour-per-year energy production profile to forecast the effect of PV on the grid and plan PV rates. Let Bidgely show you how.

HOME-BY-HOME SOLAR PRODUCTION TRACKING

Far more accurate than nameplate capacity, solar production estimation based on AMI data analysis reveals each home's unique daily solar production patterns.

DAILY SOLAR PRODUCTION FOR 5 HOMES, AVERAGED ACROSS JUNE (WATTS / HR)



SOLAR PRODUCTION BY SUBSTATION

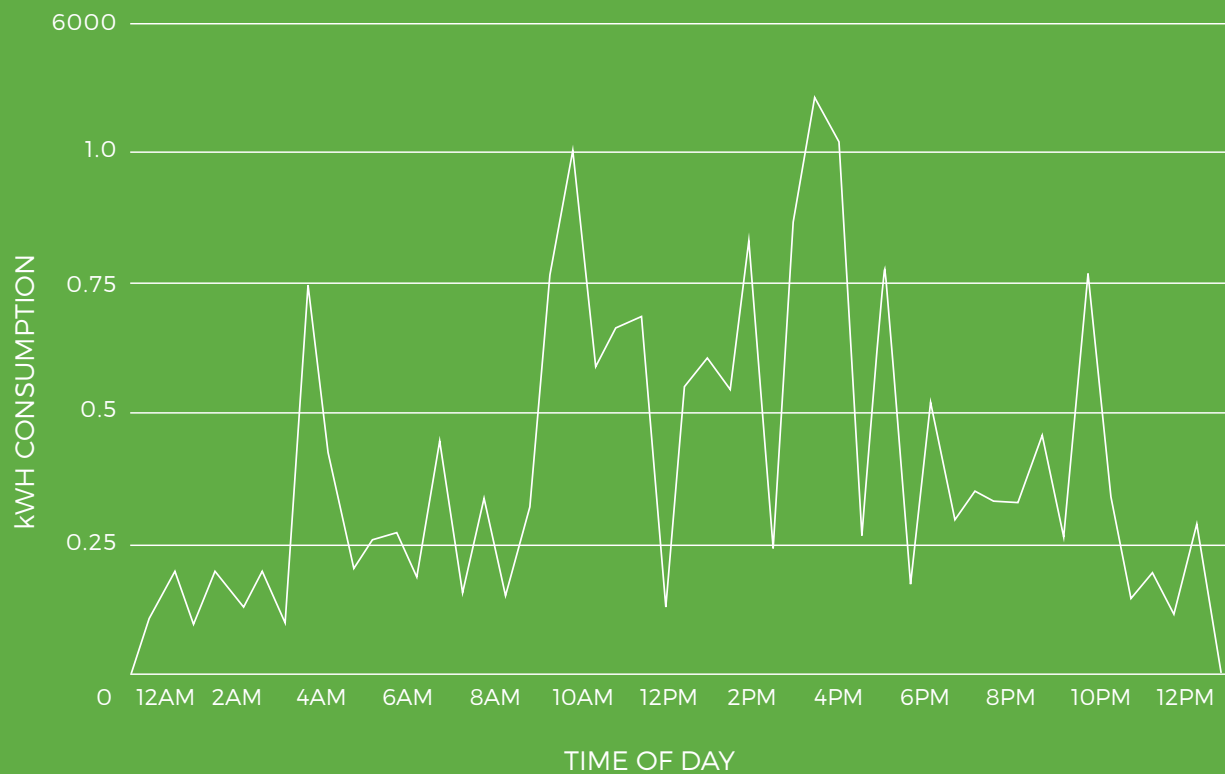
AMI data analysis can calculate aggregate solar production per substation to inform peak load planning.

SUBSTATION ID	# OF HOMES WITH SOLAR	PEAK TIME PRODUCTION (kW)
49772388	5	53.3 kW
73677337	4	34 kW
89365555	4	27 kW
84854472	4	23 kW
03088743	3	30 kW

OPTIMAL SOLAR CUSTOMERS

AMI targeting can identify homeowners who are most likely to benefit from rooftop solar. For example, customers who are not able to sell power back onto the grid, or who could benefit from reducing mid-day power consumption to avoid a time of use rate should be targeted with programs outlining the advantages of owning solar generation.

HOME'S DAILY CONSUMPTION CHART SHOWING HIGH CONSUMPTION DURING MIDDAY AND EARLY AFTERNOON



SOLAR SERVICES



Often when solar panels are not functioning properly, it can take months or even years before a homeowner becomes aware of the problem. With AMI-data-informed solar production estimation and monitoring however, customers can be notified if there is a significant drop in production, and introduced to O&M services that will help resolve any issues. In addition, AMI-data can be used to identify customers who are exporting a lot of solar energy to the grid in order to offer them energy storage solutions so they can store their excess production to get maximum value out of their panels and have power security when the grid is unavailable.

PUT AMI DATA ANALYSIS TO WORK FOR YOU

1

Rate planning and rate making, and supporting PV solar rate cases to the PUC by defining the impact PV deployment will have on customers

2

Grid stability during outages and maintenance, to better forecast the flow of solar energy onto the grid at the line level to ensure no lines are overloaded

3

Peak load planning, to accurately predict the impact of solar down to the feeder or transformer level to inform semi-annual peak load planning sessions and necessary capital upgrades



Illustrations Provided By Vecteezy.com

For more information on AMI DATA ANALYSIS, visit: go.bidgely.com/AMI-Driven-Insights_Download-Now

