

SURANGEL & SONS CO. JCM MODEL PROJECT

SMALL SCALE SOLAR POWER PLANTS FOR COMMERCIAL FACILITIES IN
ISLAND STATES PROJECT

The JCM Small Scale Solar Power Plants for Commercial Facilities in Island State

Subproject 2 - Surangel & Sons Company

PROJECT 2

To introduce 150kw solar power system that aids in reducing greenhouse gas emissions that come from fossil fuel combustion.

March 31, 2014 Surangel & Sons Co signed an agreement with PCKK, Meleka Environmental, & WCTC to jointly implement the Small-Scale Power Plant Project. Signed MOU on **June 02, 2014**.

May 28, 2014 Island Engineering & Design began the engineering, design, supply, commission & installation of 150 kW Solar PV Power Plant at Surangel Supercenter.

November 28, 2014 Surangel Supercenter Solar PV Rooftop Power Plant Project was completed and operation by the first day of December 2014



Solar photovoltaic module:
Kyocera 250W x 600

Power Flow



Inverter: 10kW x 15
Monitoring System



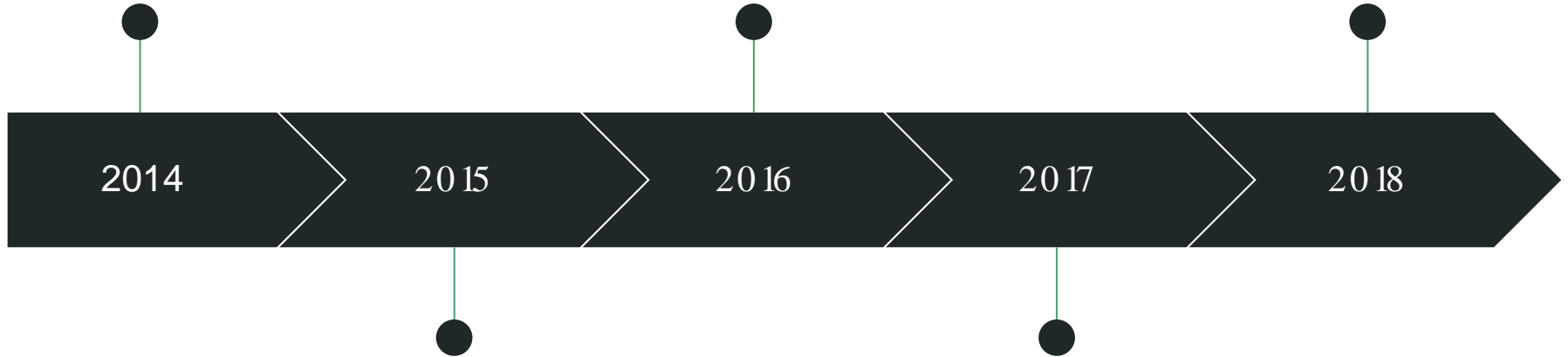
150 kW Solar Power System
composed of six hundred 250 W
solar photovoltaic modules

The system is connected to the grid
utilizing the net-metering scheme.

Surangel Supercenter monthly
electric power usage @
120,000 kWh (~\$53K/month)

Highest electric power usage
@ 113,000 kWh (\$34K) in the
month of June

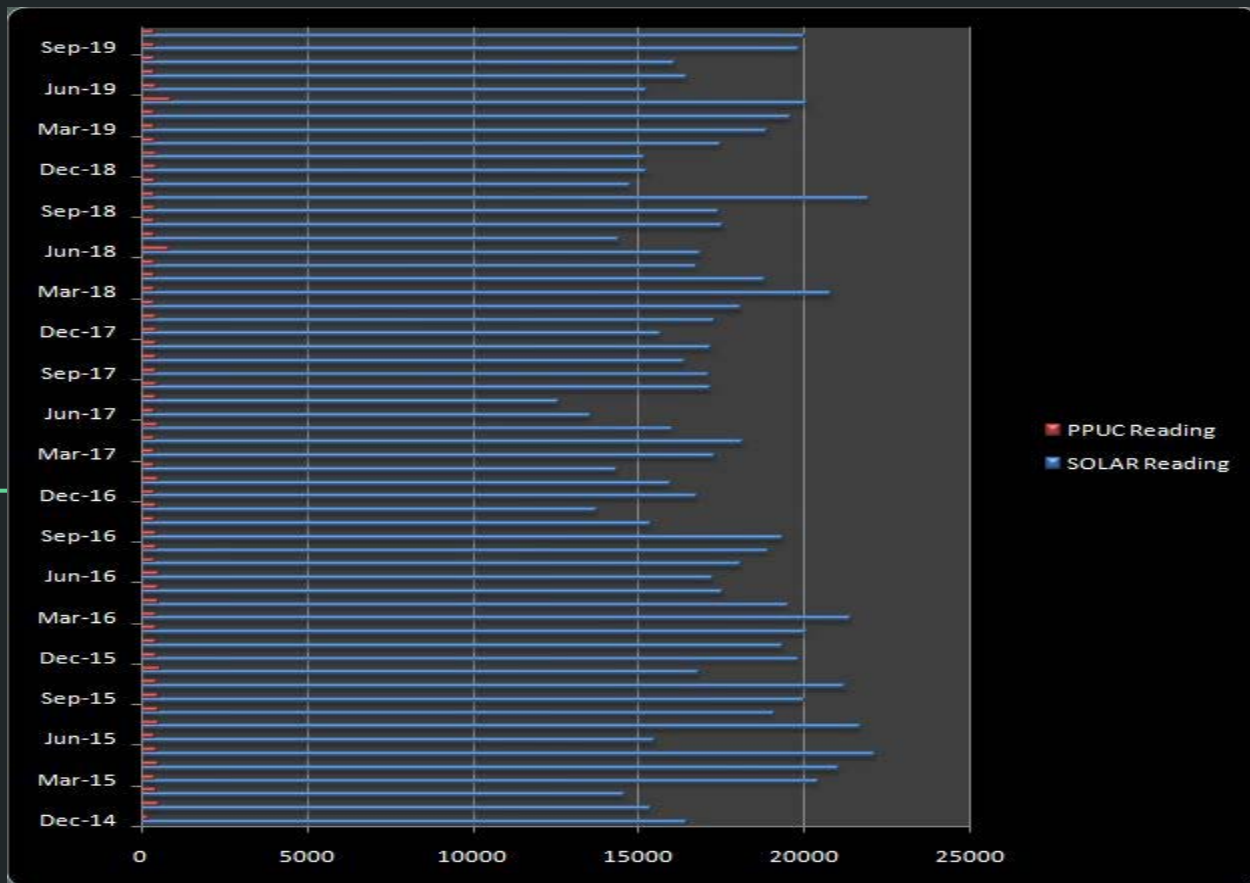
Highest electric power usage
@ 93,000 kWh (\$29K) in the
month of Dec



Highest electric power usage
@ 118,000 kWh (\$34K) in the
month of Nov

Highest electric power usage
@ 103,000 kWh (\$30K) in the
month of May

SOLAR USAGE VS PPUC METERED USAGE



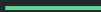
Good Points

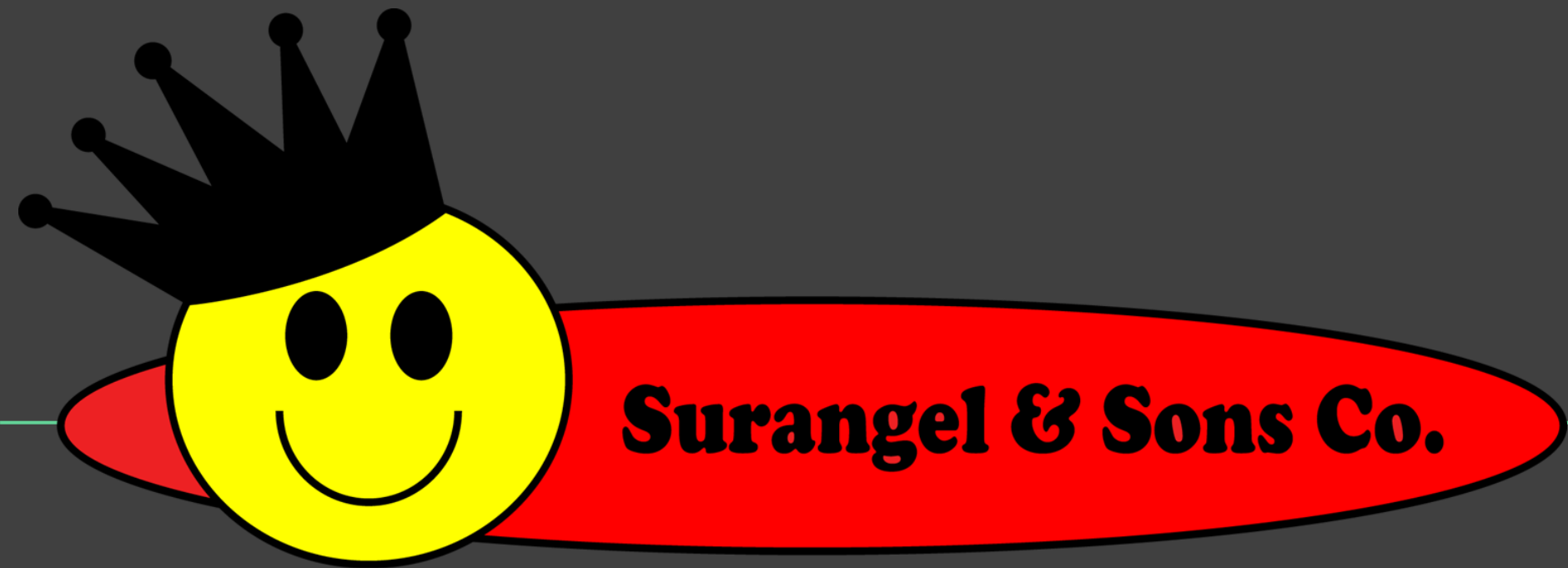


This solar program has saved Japan Carbon Credits

Under this program, Surangel & Sons Co. has saved an average of \$20K/mo on electricity and has greatly reduced our carbon emissions

This program has contributed to Surangel & Sons Co.'s mission to become better, greener corporate citizens





“Where the Customer is King!”