

SIMPLIFYING INSTALLATION WITH A 208VAC INVERTER

OLD MILL CENTER

LOCATION Corvallis, Oregon



You want the least amount of electronics on the roof as possible.

Peter Greenberg
NRGWise



TYPE
Rooftop solar

POWER OUTPUT
110 kW_{DC}

Financing solar at the Old Mill Center took a mighty effort from community investors and other supporters of the nonprofit preschool and provider of mental health, early intervention and parent support services. Project installation with CPS America commercial string inverters was easier.

A higher-voltage string inverter would have required installation of a stepdown transformer and switchgear along with a concrete pad. It would have made electrical work more complex, taken up more space at the project site, and lowered conversion efficiency. Preferring a simpler installation, the electrician on the job requested CPS America's 208V inverter.

CPS PRODUCTS USED



4 — 25 kW - 208 V
Commercial String
Inverters



216 — 370 W
Astronergy
Solar Modules



280 — APS RSD-S-
PLC Module Rapid
Shutdown Units



FlexOM
Gateway



CHALLENGE

The Old Mill Center has seven solar arrays spread across south-, east- and west-facing sections of the roof. With one 100 kW inverter or two 60 kW inverters, the project would have not only required a transformer and switchgear, there would have been too few maximum power point trackers (MPPTs) for each module string. And with power optimizers, you would have been adding electronics onto the roof.

SOLUTION

CPS brought design flexibility with four string inverters, each with three MPPTs. That's like using 12 inverters, said Peter Greenberg, who led the installation. Greenberg also liked that CPS America inverters ship with AC disconnect switches, which was not true of all inverter systems he considered for the project. "Altogether, it gave us a lot of options," he said.



Old Mill Center is the second project supported by Solarize Corvallis, a partnership between the Corvallis Sustainability Coalition and the Oregon Clean Power Cooperative, bringing solar energy to schools, low-income housing, government buildings and nonprofits. Learn more at Solarize Corvallis at sustainablecorvallis.org.



CPS America, a subsidiary of Chint Electric, is a smart energy solution provider focused on value and performance for our customers. With over 85,000 PV inverters in the U.S. and an exceptional engineering and service team based in Texas, CPS America is ready to support your next smart energy project.