

MPTS

Power Management, Power Quality Improvement, Controls System

Measured Performance and Verified Results

A 3D bar chart with four bars of increasing height from left to right. The first two bars are blue, and the last two are green. A green curved arrow points from the top of the third bar to the top of the fourth bar. A stack of green money is placed next to the fourth bar.

\$30,000 to \$100,000

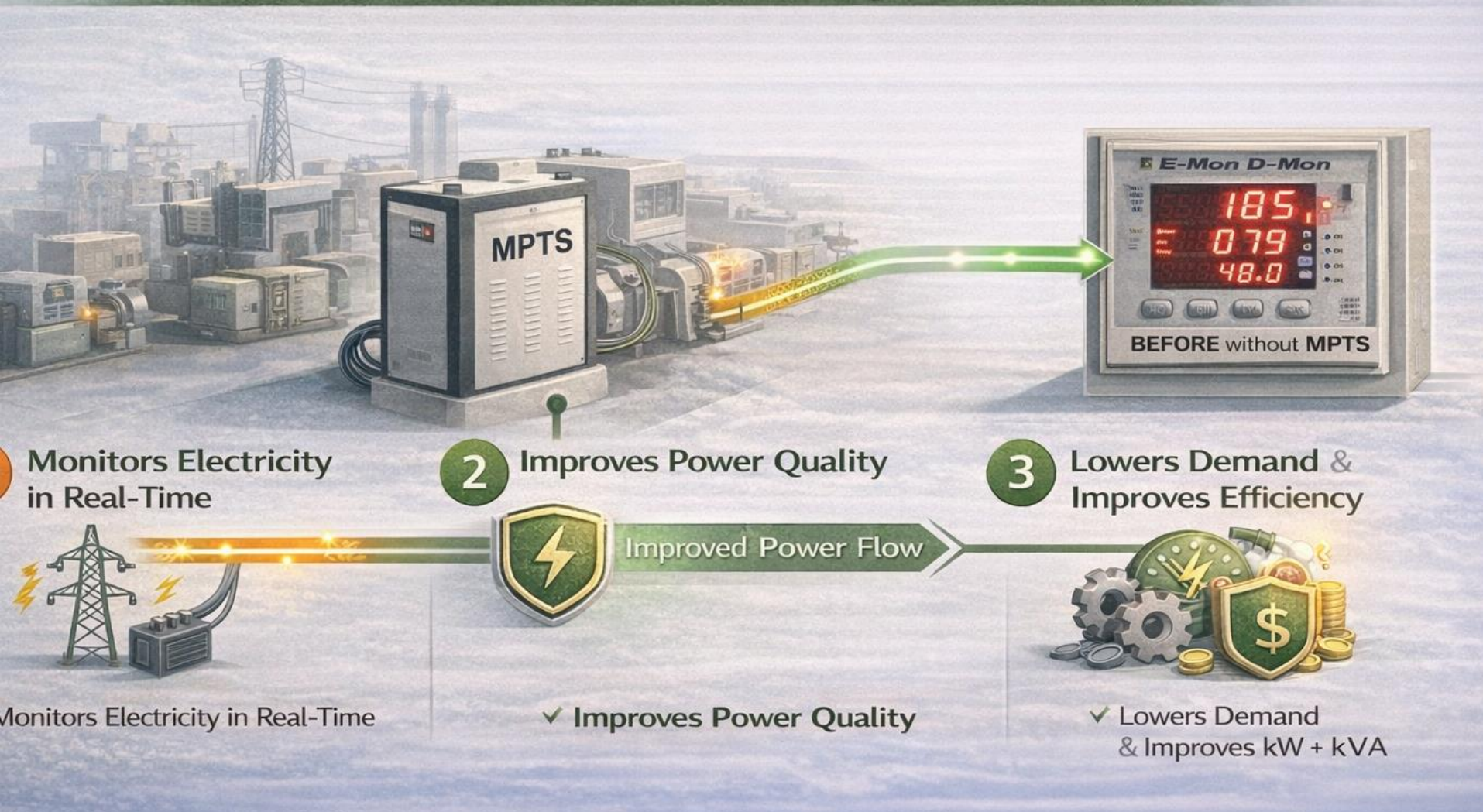
Annual Electrical Savings Per System

in addition to repair and operational savings
from Power Quality Improvement

How MPTS Works

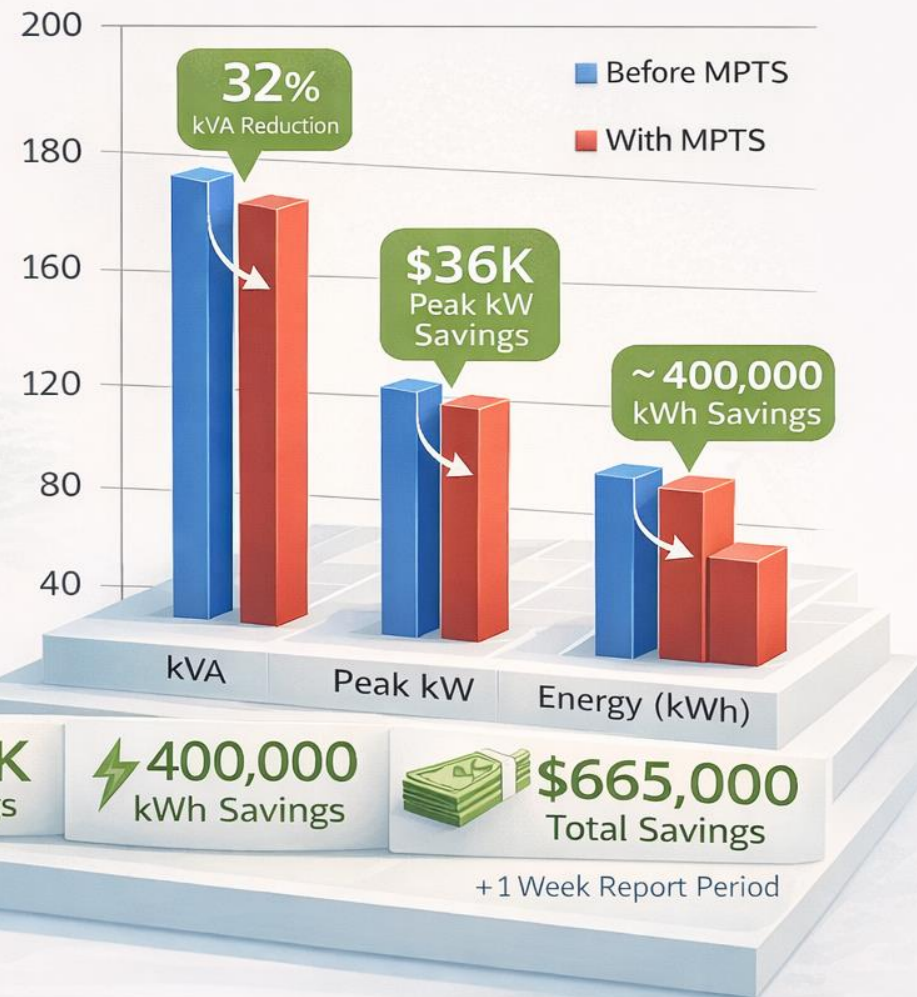
MPTS Power Management Controls System

Detailed Field Data – Verified on-Site by Digital Power Meters



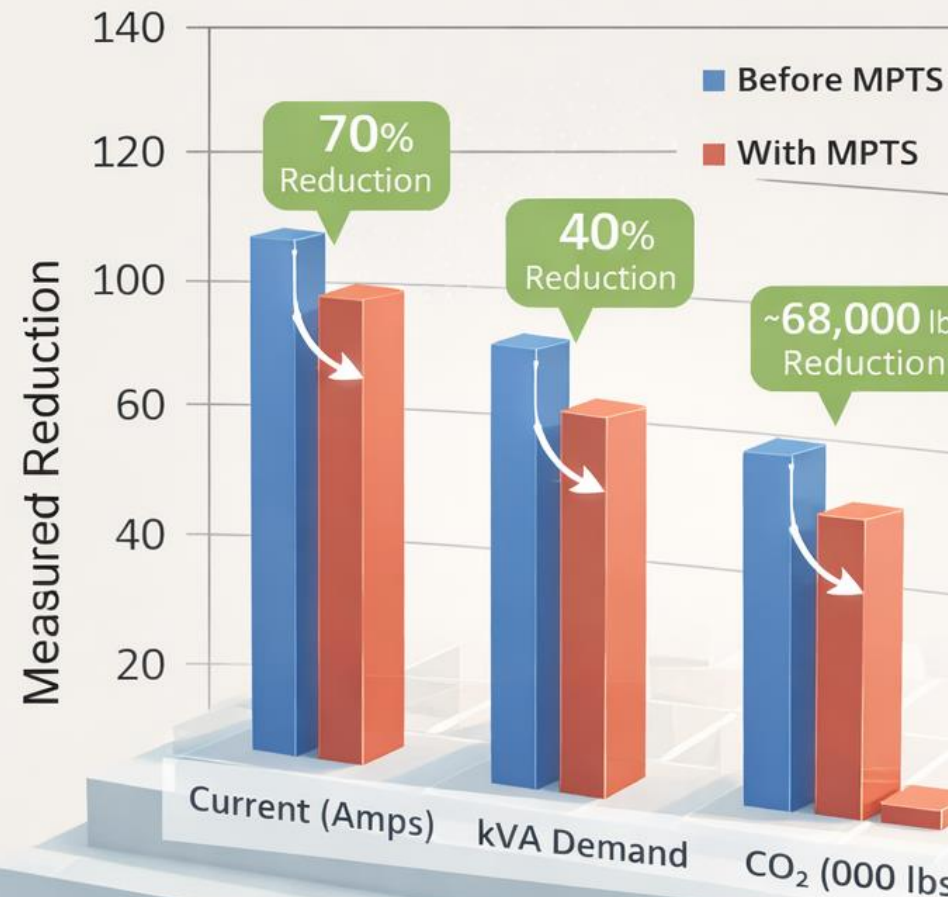
MPTS Power Management & Power Quality Improvement Controls System at Morgan County Prison System

Data Extrapolated Over The Full Year 2025



NORAD - Cheyenne Mountain Air Force Base

-160 HP Air Compressor, Data
provided by Air force engineering

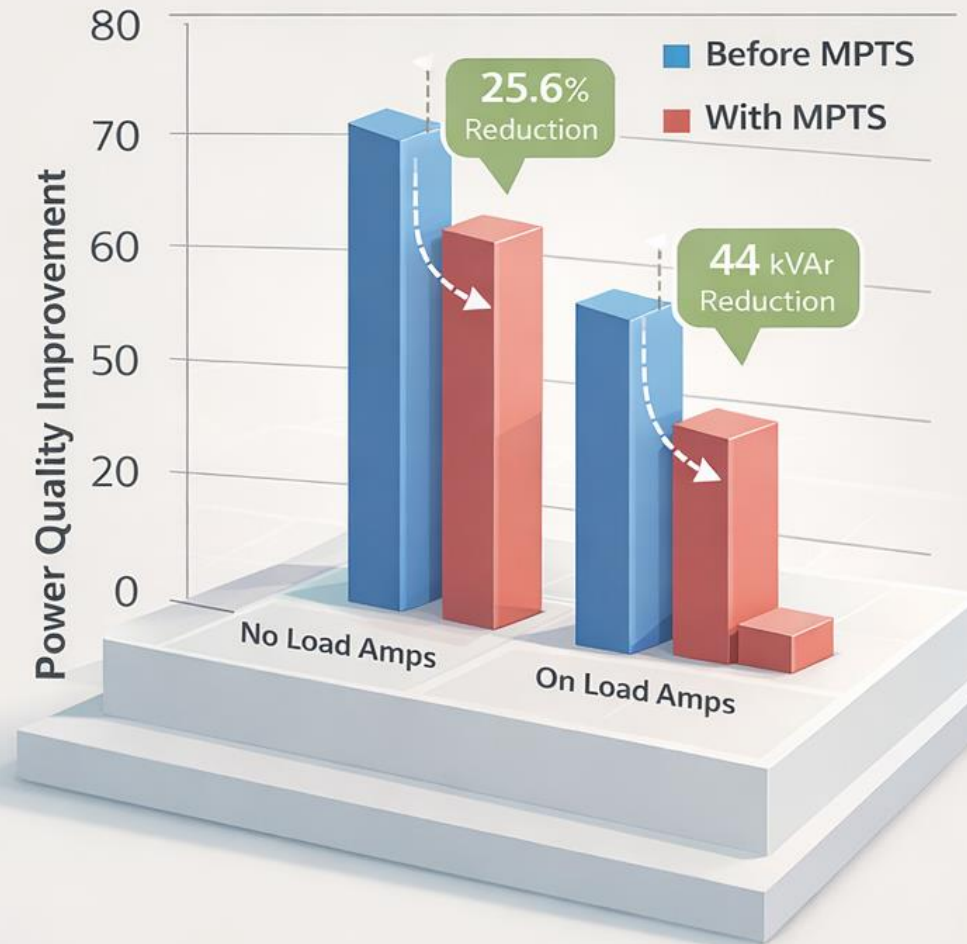




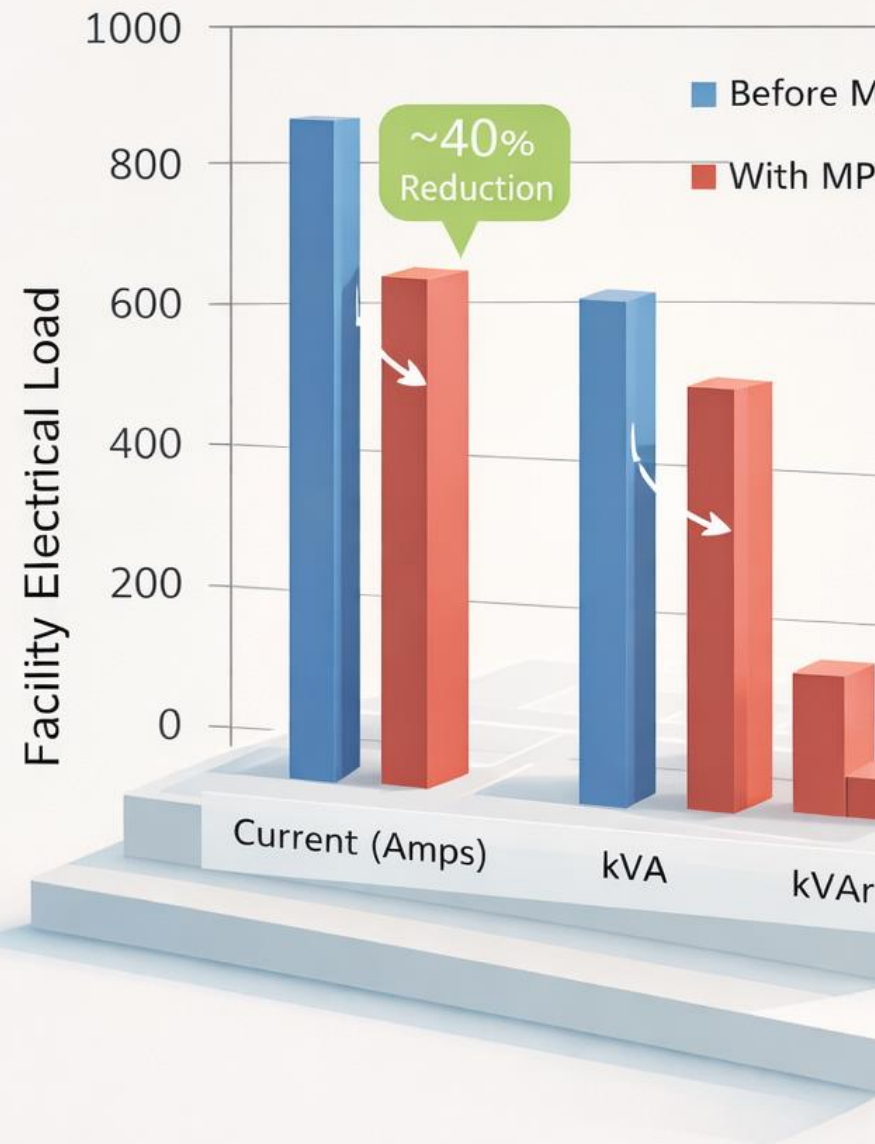
U.S. GSA Federal Center Building 8



Power Quality Improvement

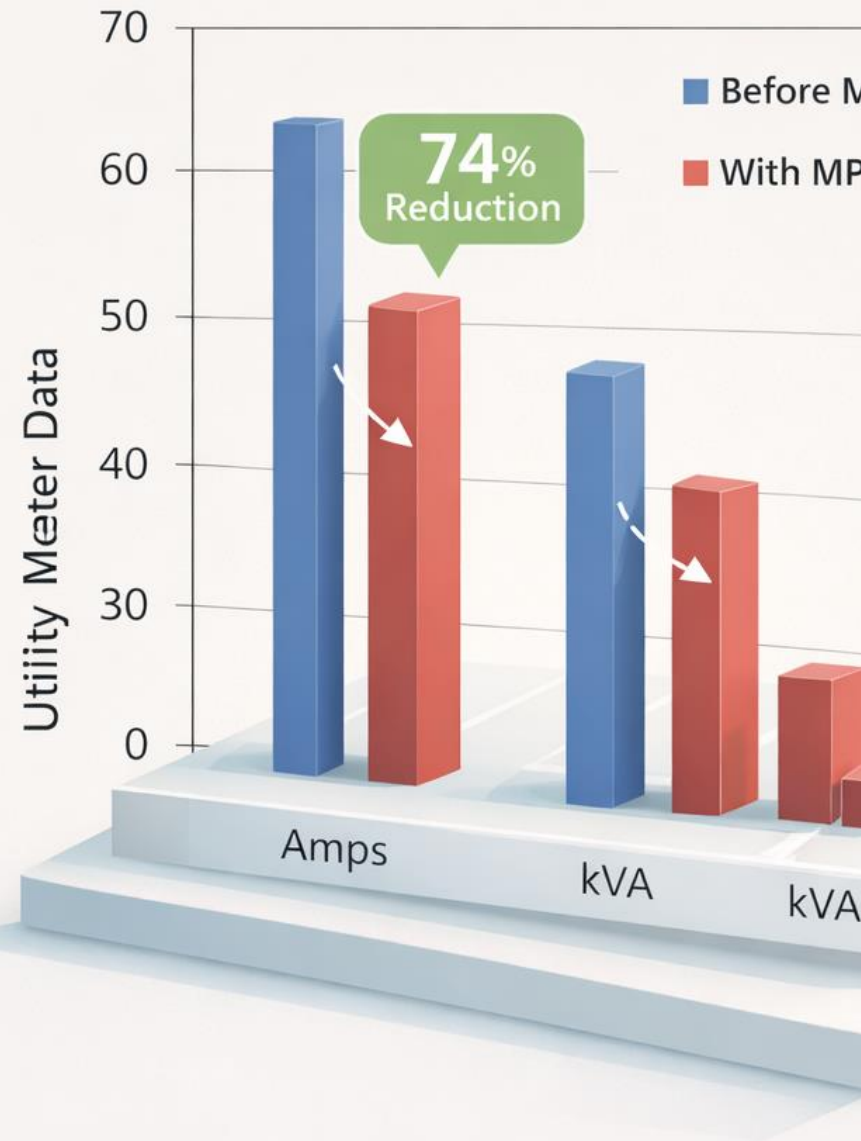


Novus International – Manufacturing Facility



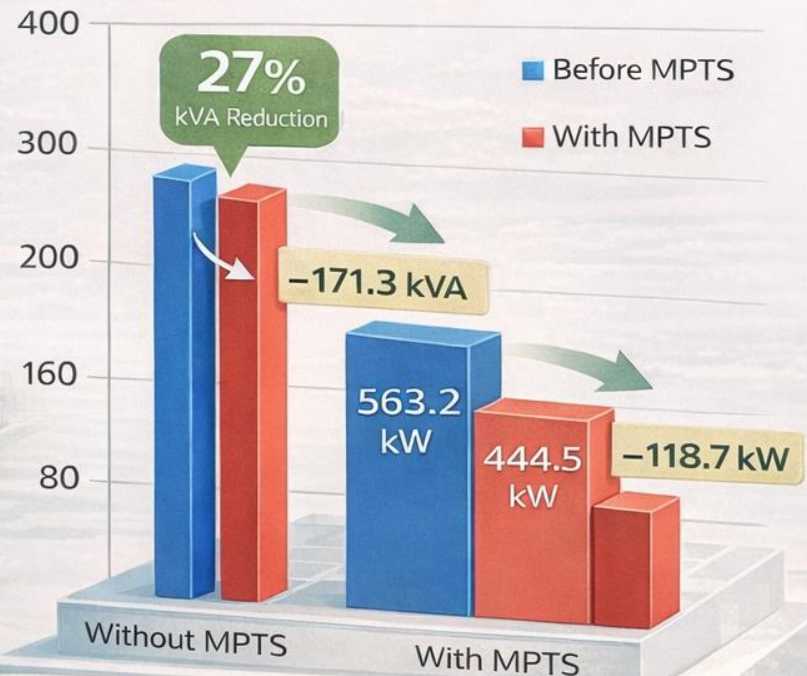
Lindy's Flowers

Grow Facility, Largest Exp Of Roses



Peninsula CNC Factory – Full-Year Utility Data

27% Reduction in Utility Billed kVA Demand



\$31,763 Estimated Annual Utility Savings

+769,000 kWh
Annual Estimated Reduction

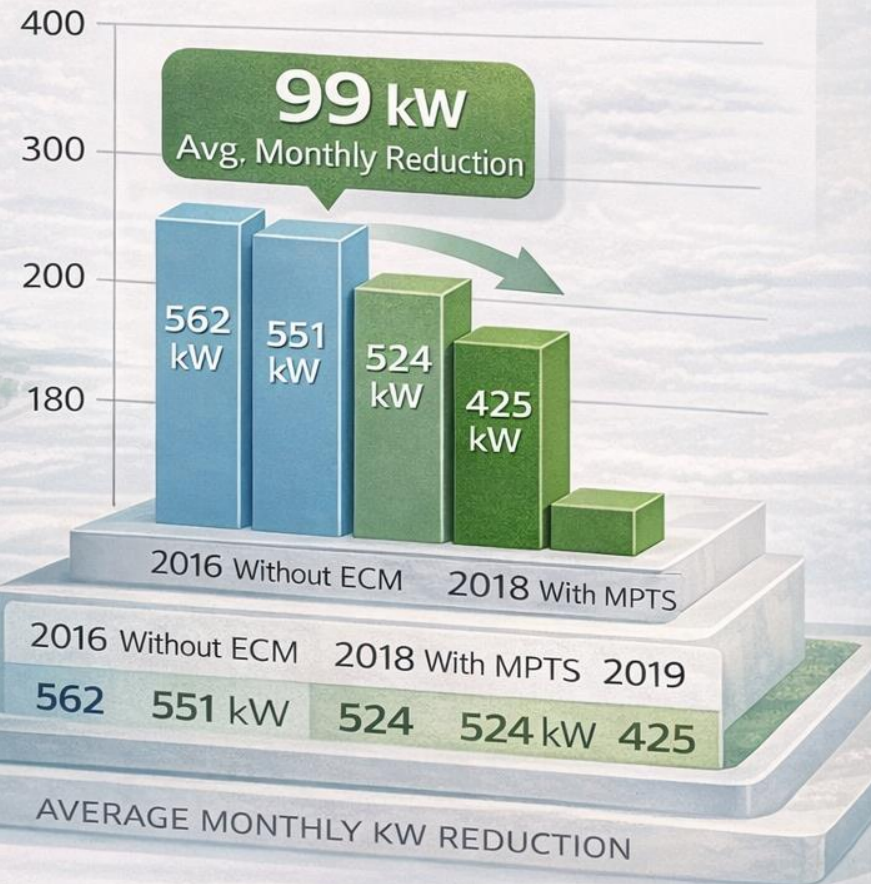
\$ \$14,244 Demand Savings

* Savings based on conservative \$10/kW-month rate & \$0.02279/kWh rate

Peninsula CNC Factory – Full-Year Utility Billed Controls System

Packaging Plant – Full-Year Utility Data

99 kW Average Monthly Reduction
After MPTS Installed

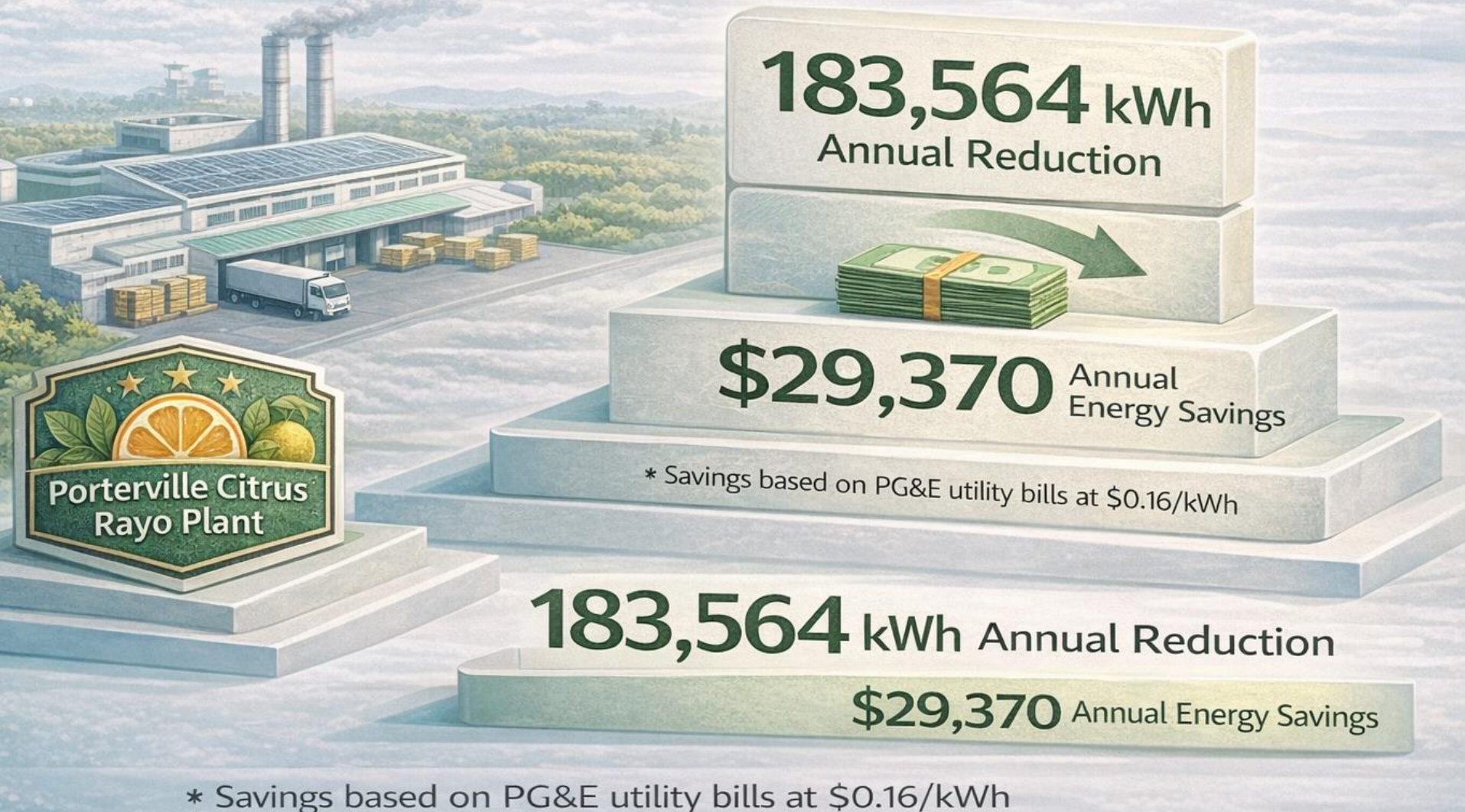


99 kW Average Monthly kW Reduction After MPTS Installed

2016 Without ECM | 2017 Without ECM | 2019 With MPTS | 425 kW

AVERAGE MONTHLY kW REDUCTION After MPTS Installed

Power Management and Power Quality improvement at Porterville Citrus Rayo Packaging Plant



23% Average Peak kW Reduction

with MPTS Power Management Controls System

Performance Verified by PG&E Utility



PG&E verification of utility interval + billed data

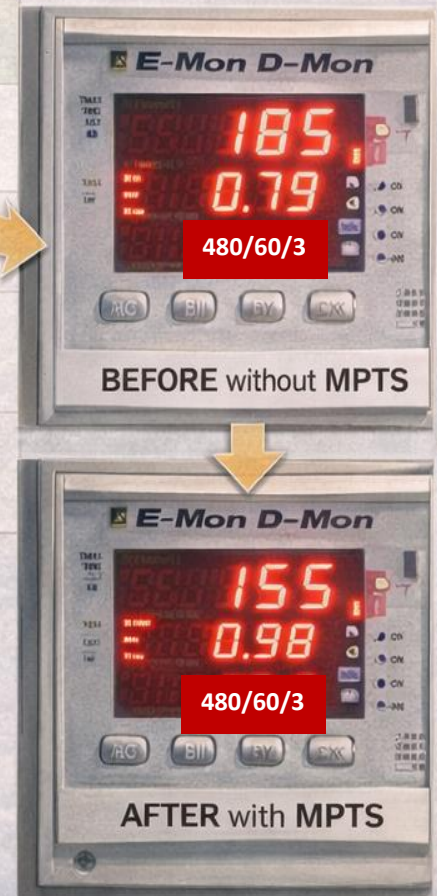
MPTS Power Management & Power Quality Improvement in Foundry Applications — Field Verified

Detailed Field Data – Verified on-Site by Digital Power Meters

	BEFORE without MPTS	AFTER with MPTS
Amperes	(178–188)	155
Power Factor	0.79 – 0.83	0.98
Voltage	480	480
Frequency Hz	60	60

– **33 Amps Reduced**
(~18%)

↑ **24% PF**
Improvement



* Direct on-site readings, E-Mon D-Mon Tricon metering of foundry power parameters

The Problem: Power Quality and Demand Costs

Common Challenges in Industrial Facilities



Higher kVA & kW Demand



Harmonics & Electrical Noise



Expensive PF Penalties



Ongoing Maintenance



Higher kVA & kW Demand

- ✓ Inefficient Power Usage
- ✓ Poor Power Quality (Harmonics)
- ✓ Frequent Repairs and Downtime
- ✓ Costly Utility Penalties



Equipment Overload & Stress

- ✓ Frequent Repairs and Downtime
- ✓ Costly Utility Penalties



Customer-Validated Performance

Power Management Controls System with MPTS Technology



“Every ampere of current we decrease translates into reduction of heat and this is very important to us, MPTS helps us accomplish this.”

— **Brian**

Certified Energy Manager
U.S. Air Force NORAD
Cheyenne Mountain Air Force Station
(719)-474-3112

“When server room temperature increases we have to shut down the servers. MPTS on our HVAC chillers helps us ensure reliable cooling and protects our compressors from power surges and spikes.”

— **George Gielow**

Chief Operating Officer
Aurora Mental Health Centers, Colorado
(303) 489-1167

“Improved power quality in buildings is very critical to protect electrical and mechanical equipment and this is the reason we use MPTS.”

— **Andrew Olsen**

Resource Energy Manager
U.S. General Service- Administration
(303)-236-5376

“We were able to fund four roof-top air conditioning chillers with the savings from MPTS.”

— **Daniel Dawson**

Chief Financial Officer
Aurora Mental Health Centers, Colorado
(303) 617-2345

“We would recommend the MPTS energy solution to any and all customers that have inductive or capacitive loads in their buildings, such as air conditioners, compressors, pumps, air-handlers, ballasted lighting, electric motors, or any other loads that create induction or capacitance. I cannot think of a building that would not have these devices serving them.”

— **Tony Gancer**

Vice President and Chief Engineer
International Aid Services Worldwide
(815) 354-3998

“It is unusual today to find product that dramatically out-performs the promises stated by the company promoting it. A refreshing change of pace in the corporate world!”

— **Tony**

Chief Engineer
New United Inc.
Electrical Contractors
(815) 354-3998