

GSA

U.S. General Services Administration

Power Quality Improvement

Federal Center Building 8 Pumping Station

The U.S. General Services Administration (**GSA**) installed an **MPTS Power Management Controls System** at the VFD-driven Federal Center Building 8, Denver, Colorado, to improve power factor and reduce electrical demand.

BEFORE



Power Factor: **0.18**



Electrical Current:

No-Load: **54 Amps**

On-Load: **78 Amps**



Reactive Power:



Estimated Annual
Energy Savings:



Estimated Annual
Cost Savings:

AFTER

0.98 Improved from 0.18 to 0.98

54 Amps

9.72 Amps

44 Amps +82%

78 Amps

58 Amps

20 Amps +26%

44 kVAr

2 kVAr

42 kVAr. +95%

314,613 kWh saved

\$31,461 saved

RESULTS



**82% Decrease in
No-Load Current**



**314,613 kWh / Year
Energy Savings**



**95% Reduction
in Reactive Power**



ROI: Less Than 1 Year

Project Details



Facility: Federal Center **Building 8**, Denver, Colorado