Passive Optimization | How can it improve your facility?

CASE STUDY

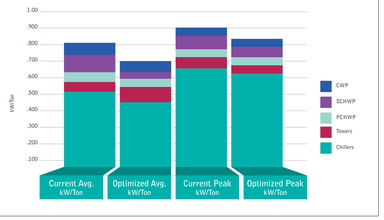
Energy Savings with Little Investment

Hospital | 4,000 ton plant

RESULTS

- **12% Energy Savings**
- Reduced Operator Intervention
- Reduced Tower Fouling

RESULTS



DETAILS

Additional Project Information

- Uncertain plant future
- Several ECMs already implemented
- Plant upgrades:
  - VSDs on secondary pumps
  - Selected sensors

CASE STUDY

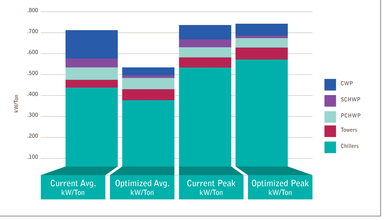
Improve Plant Performance

Hospital | 2,000 ton plant

RESULTS

- **18% Energy Savings**
- Improved Chiller Performance

RESULTS



DETAILS

Additional Project Information

- Warm spaces – insufficient pumping
- New load coming online
- Plant upgrades:
  - VSDs on condenser pumps
  - Selected sensors

CASE STUDY

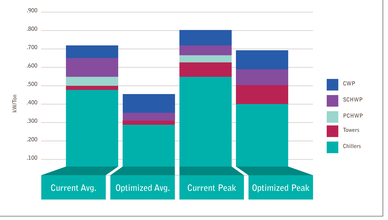
Partial Plant Replacement

Government | 3,700 ton plant

RESULTS

- **35% Energy Savings**
- Modernized Operation

RESULTS



DETAILS

Additional Project Information

- Aging, inefficient plant
- Plant upgrades:
  - Replaced 1 of 3 chillers
  - New variable-primary CHWP
  - New towers and CW pumps
  - Selected sensors

CASE STUDY

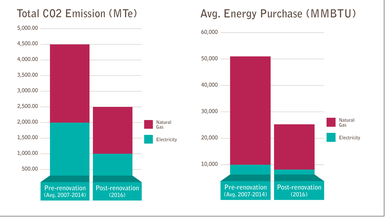
Full Plant Replacement

University | 3,000 ton plant

RESULTS

- **50% Energy Savings**
- Reduced C02 by 2,000 MTe

RESULTS



DETAILS

Additional Project Information

- New CHW and HW plant
- Buildings transitioned to LTHW
- Incorporated heat recovery
- All variable speed plant

CASE STUDY

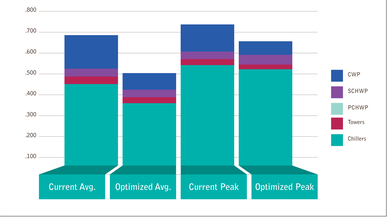
New Plant

Government | 9,100 ton plant

RESULTS

- **25% Energy Savings**
  Over Unoptimized System

RESULTS



DETAILS

Additional Project Information

- Plant serves campus expansion
- 40° chilled water supply temperature
- All variable speed plant