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Commonwealth of Massachusetts Western Region Trial Courts Springfield Hall of Justice



SUMMARY

ADI Energy partnered with BG Mechanical was contracted to provide design/build services under DCAMM's Accelerated Energy Program at 10 locations of the Commonwealth's Office of Trial Courts in the Western Region. ADI Energy completed the necessary design and construction oversight for 13 energy conservation measures to assist the facility in securing their energy future.

Energy Efficiency Massachusetts

Size: 493,000 ft²

Overall value: \$4.2 million

Annual savings: \$299,000

SERVICES

- Life cycle cost analysis
- Vendor selection analysis
- Capital investment and maintenance planning
- Consumption usage analysis
- Facilities systems training
- Energy design build services
- Energy engineering
- Energy financial analysis
- Energy performance contracting

MEASURES

- Lighting and lighting controls
- Energy management system
- Domestic water conservation
- Variable frequency drives
- New chillers
- New chiller controls

UNIQUE VALUE TO CUSTOMER

With an average age of 87 years old, the buildings in the Western Region Trial Courts had inefficient, aging infrastructure systems. ADI Energy and BG Mechanical designed and built significant energy improvements that renewed critical HVAC and other energy consuming systems, provided control of energy, decreased the cost of building operations and helped secure the facilities from cost spikes through energy reduction.

Completed on schedule and on budget, the work plan included adequate planning of the work with regard to audit, design, procurement and installation durations, as well as facility operations, seasonality, and working hours. The entire project was conducted in collaboration with local personnel and in consideration of the needs and safety of the Trial Courts staff and local citizens.

The Springfield Hall of Justice was constructed in 1973 and is a part of the Springfield Court Complex sharing utility meters with the neighboring Housing and Juvenile Building. This 245,000 sqft building includes courtrooms, lock-up facilities, cafeteria, conference rooms and offices. ADI Energy recommended and oversaw the installation of eight measures including replacement central plant chillers, vending misers, water conservation devices, energy management systems, energy efficient lighting with related controls and VFDs on chilled water pumps.

This individual facility will save 738,748 kWh, 495 therms of natural gas and 16,397 gallons of water that represents approximately \$59,000 in energy cost savings annually.