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## 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 ft<sup>2</sup>

**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

# Commonwealth of Massachusetts Western Region Trial Courts Northampton Superior and District Court



## 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 Northampton Superior and District Court was constructed in 1931 with additions completed in the 1970's. This 39,272 sqft building is part of the Hampshire Court Complex and includes courtrooms for both the district and superior courts, holding cells and offices. ADI Energy recommended and oversaw the implementation of six measures including the installation of vending misers, water conservation devices, energy management systems, and energy efficient lighting with related controls.

This individual facility will save 182,475 kWh, 568 therms of natural gas and 1,227 gallons of water that represents approximately \$12,000 in energy cost savings annually.