



AMERICAN DEVELOPMENT
INSTITUTE

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SUMMARY

ADI Energy has been retained by the Department of Energy Resources (MA - DOER) to prepare an energy audit for the fuel-consuming systems at the Upper Blackstone Water Pollution Abatement District (UPWPAD) facility located in Millbury, Massachusetts.

DOER Massachusetts
Energy Consulting Massachusetts
Energy Efficiency Massachusetts
Solar Energy Massachusetts

Vol. Capacity : 56 million gallons/day

Annual savings: \$27,154
Payback: in 4.2 years

SERVICES

- Energy audit
- Energy savings analysis
- Benchmarking
- ECM recommendations
- Energy profiling
- State utility incentive program recommendations
- Sustainability
- Utility management

MEASURES

- Energy Management System (EMS)
- EMS upgrades and retro-commissioning
- Replacement of old boilers

Department of Energy Resources-MA

Upper Blackstone WWTP, MA



UNIQUE VALUE TO CUSTOMER

Energy studies were commissioned for the Upper Blackstone Water Pollution Abatement District (UPWPAD) facility in order to identify cost-effective energy conservation measures (ECMs) that would qualify for funding under DOER's Energy Conservation Improvement Program (ECIP).

Not only did ADI Energy provided recommendations to various ECM's that would yield significant energy savings to the Upper Blackstone Water Pollution Abatement District , but also recommendations to optimize the operational efficiency of their building systems. ADI Energy also presented the Upper Blackstone Water Pollution Abatement District with different utility purchasing savings opportunities such as energy procurement, demand response and forward capacity payments.

Upper Blackstone Water Pollution Abatement District
Annual Natural Gas Usage Breakdown - Fiscal Year 2007

Month	Natural Gas Usage - 1,000's Of Cubic Feet				
	Total	Furnace	RTO	Plant Heat	Pilot Lights
Jul-06	3,966	2,013	1,835	24	94
Aug-06	4,052	2,193	1,835	24	
Sep-06	4,117	2,124	1,959	34	
Oct-06	4,784	2,470	2,090	224	
Nov-06	5,614	2,997	1,882	735	
Dec-06	6,332	3,055	2,058	1,219	
Jan-07	8,546	4,608	2,004	1,932	2
Feb-07	8,116	4,275	1,786	2,035	20
Mar-07	7,404	3,705	1,926	1,745	28
Apr-07	6,919	4,137	1,696	1,083	3
May-07	3,939	2,064	1,669	204	2
Jun-07	5,502	3,715	1,733	51	3
Totals	69,291	37,356	22,473	9,310	152

