



MBTA TIGGER Project

APTA Sustainability
Conference
August 2, 2011





Reduction in Energy Consumption

 Largest single consumer of electricity in Massachusetts (435,000,000 kWh/year)

Energy costs represent a significant component of the operating budget

 Northeast States have highest electricity costs as well as high GHG emissions from power plants



MBTA TIGGER APPLICATION

Energy Efficiency and the Yearly Operation of Renewable Energy

EEYORE





Elements of TIGGER Proposal

- Developed a Proposal for a bundle of Renewable Energy Projects:
 - Three Wind Turbines
 - Three Solar/PV Sites
 - Electric Vehicle Charging Stations
 - 10 MW of Generating Capacity



MBTA Wind Energy Projects

- Kingston Wind 100kW Fall 2011
 - Projected production: 161,000 kWh/yr
 - Approximately 65% of the electricity needs of the facility
- Bridgewater Wind 600kW Spring 2012
 - Projected production: 945,000 kWh/yr
 - Production will exceed demand excess power returned to the grid
- Anticipated Annual Savings of Two Projects --\$100,000/year

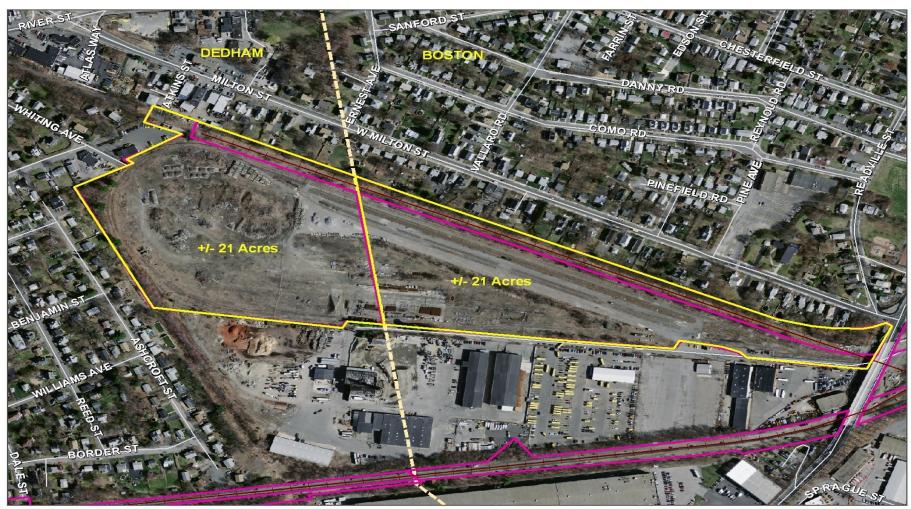


Commuter Rail Maintenance Facility

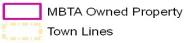




Readville Yard 5



Readville Yard Dedham & Boston, MA







Third Party Solar Projects

- Maximize the value of our real estate assets by making them available for private solar developers
- Enter into a financial arrangement with the developer
 - Purchase the electricity at lower cost
 - Lease payment for the use of the land



Renewable Energy Purchase

- MBTA Power Purchase
 - For the 1st time, MBTA is seeking an option for including Renewable Energy
 - Standard Energy Portfolio
 - Alternative Pricing for 15%, 20%, and 25%
 Renewables
 - Will be the MBTA's most progressive energy procurement to date



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