



• August 15-18, 2010 • Dallas, Texas •
• Dallas Convention Center •



U.S. Coast Guard Programs
Captain John Hickey

HECO Load Control Program



Benefits of Demand Response



Incentives



Protect the
Community



Environmental
Protection



Protect
Your
Operations

Demand Response Incentive



Energy Efficiency

- Exterior Lighting & Solar Domestic HW

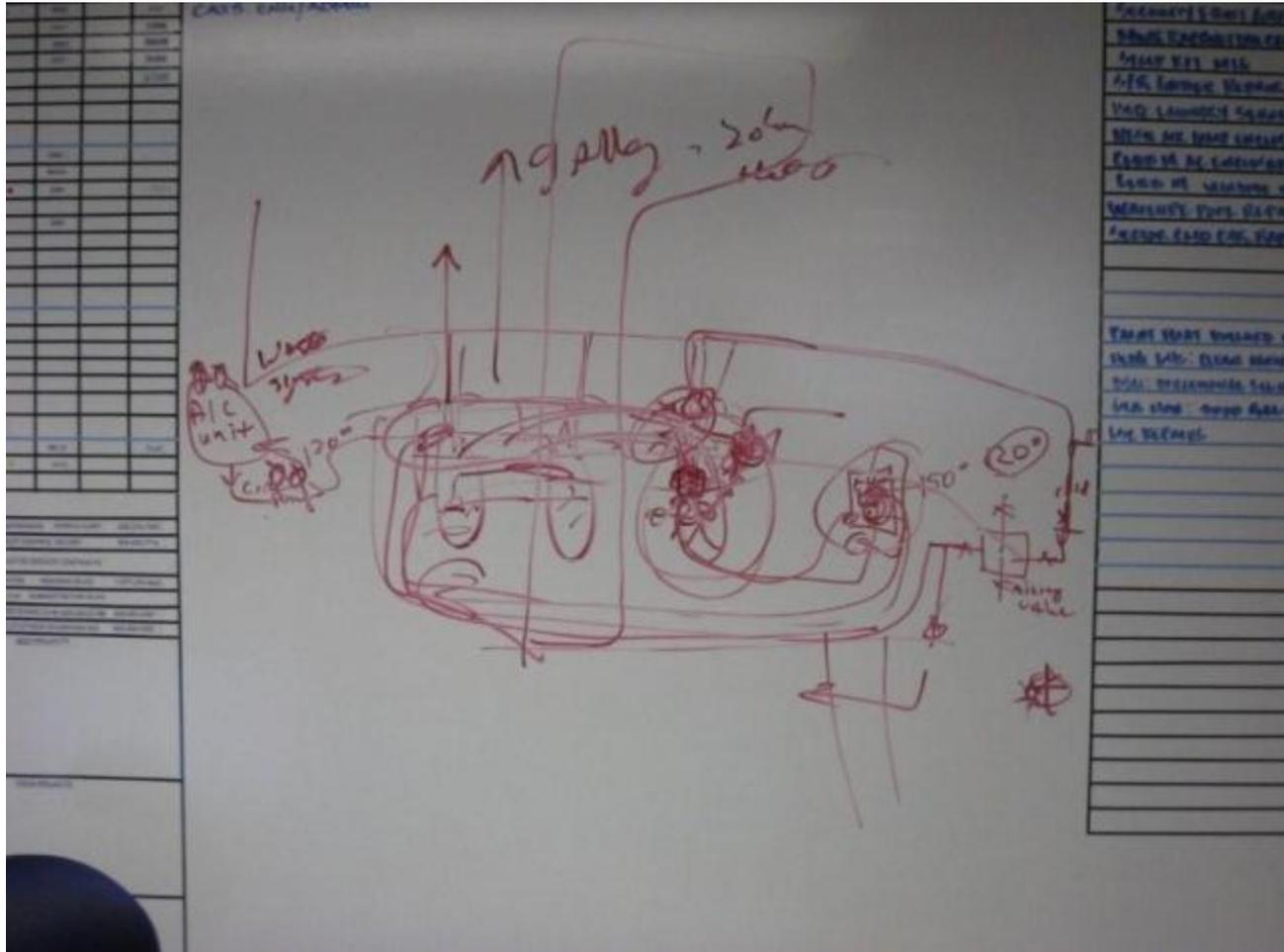


Energy Efficiency

- Cutter Retrofits & Conservation Voltage Reg



Chiller Waste Heat Recovery



Energy Efficiency

- Photovoltaics & Vending



Energy Savings Performance Contracts

14 Contracts Awarded

\$100 Million Invested

14% Energy Savings



Kodiak ESPC



Leadership



*The Integrated Support Command Kodiak Energy Saving Performance Contract Team (top row) FD&CC Seattle: Bob Mallahan, Project Manager; Kristina Meahon, Contracting Officer; Ed Rockenstire, Senior Contracting Officer
(bottom row) Enery Gov, National Energy Program Manager, Headquarters: Jesse Maestas, Financial Analyst, Headquarters; Mike Brown, Facility Engineer, ISC Kodiak.*



The U.S. Coast Guard's Integrated Support Command Kodiak, Alaska entered into an energy savings performance contract (ESPC) with NORESKO to install \$20 million in energy efficiency projects. Contracting and administrative support was provided by the Facilities Design and Construction Center Seattle and the Coast Guard's National Energy Program. Facility improvements include lighting retrofits; a centralized steam system and piping system upgrades; variable frequency drives; combustion controls; boiler economizers; various refrigeration and HVAC upgrades; and highly efficient washers, dryers, and water fixtures. These and other measures will result in annual energy and water savings of 81 billion Btu and 49 million gallons.

Integrated Support Command
Kodiak, AK



YOU HAVE
the POWER™

U. S. Department of Homeland Security
Federal Energy Management Program

For more information on how you can get involved in the YOU HAVE the POWER campaign, visit the FEMP Web site at www.eere.energy.gov/femp.



Energy Savings Performance Contracts

Construction Phase

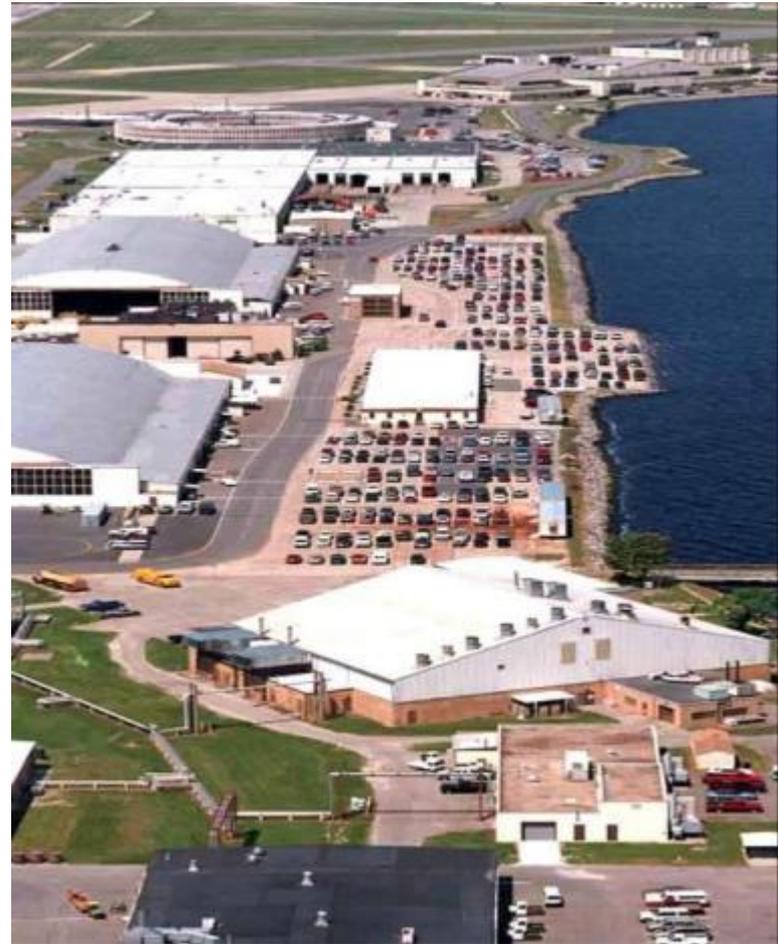
- Sector New York
- USCG Academy



Energy Savings Performance Contracts

In Development

- Cape May
- Puerto Rico
- Portsmouth
Yorktown
- Elizabeth City
- UESC's



High Performance Sustainable Federal Buildings

- New Buildings
- Existing Buildings

High Performance Buildings

Seattle Operations Bldg

LEED Silver



High Performance Buildings

Operations & Maintenance is critical to sustained high performance



LEED Silver Housing



LEED Gold Housing



High Performance Buildings

- Ground Source Heat Pumps

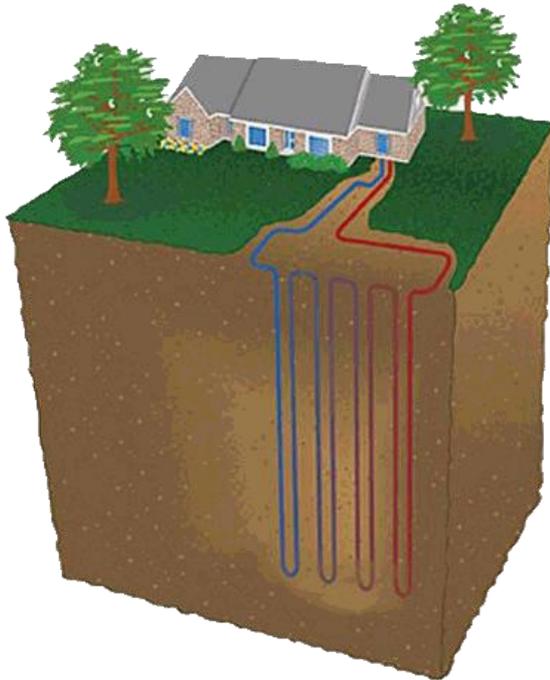


Image courtesy of ClimateMaster



Training Center Petaluma

LEED EB O&M



Aids to Navigation



LED Aids to Navigation



Reliability through Renewables



Readiness through Renewables





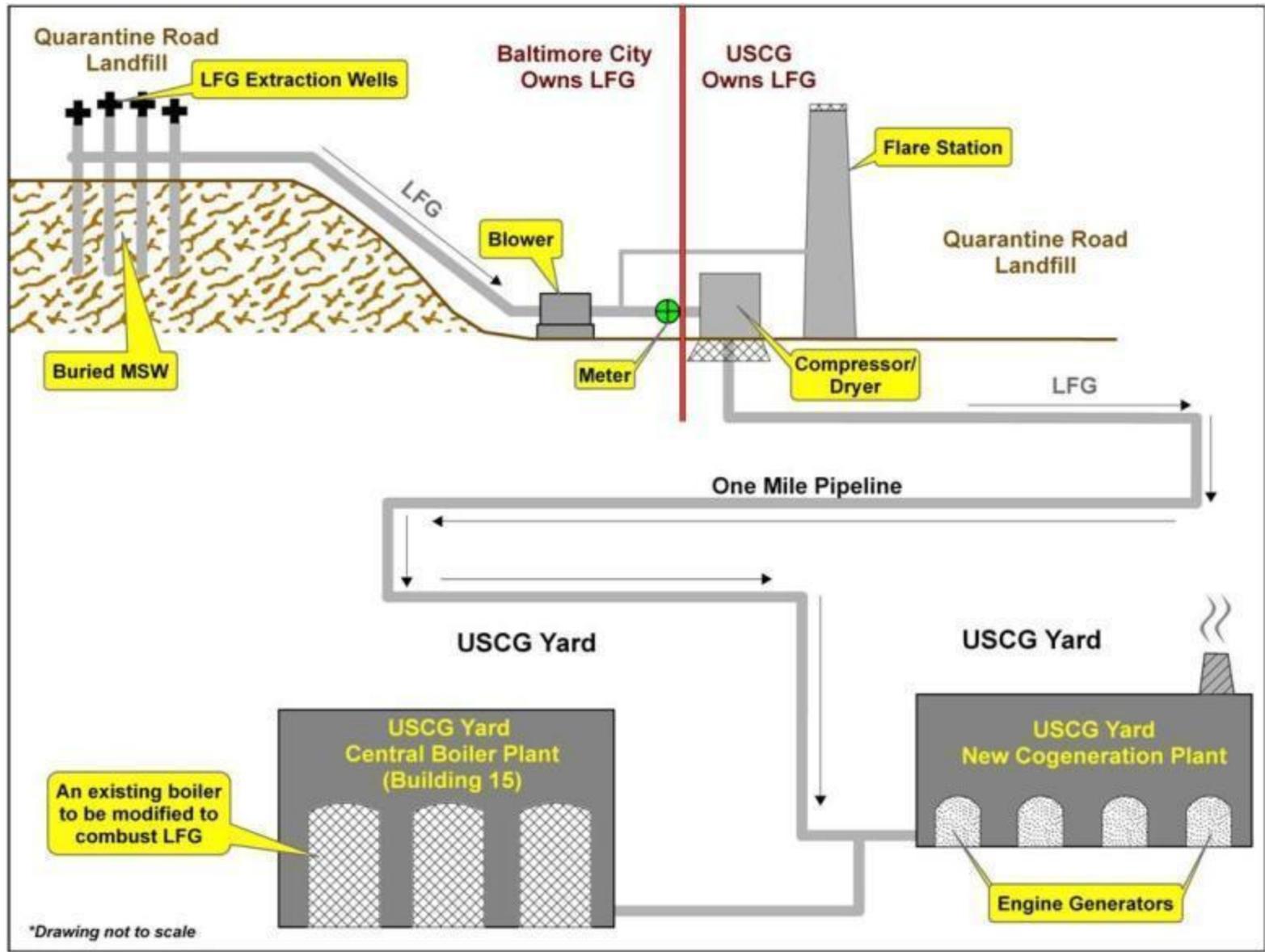
Telecoms w/ Wind Power



Shipyard Renewable Energy

- Landfill Gas Co-Generation Plant (4 Megawatts)
- 100% Renewable Energy Project
- Operational April 2009



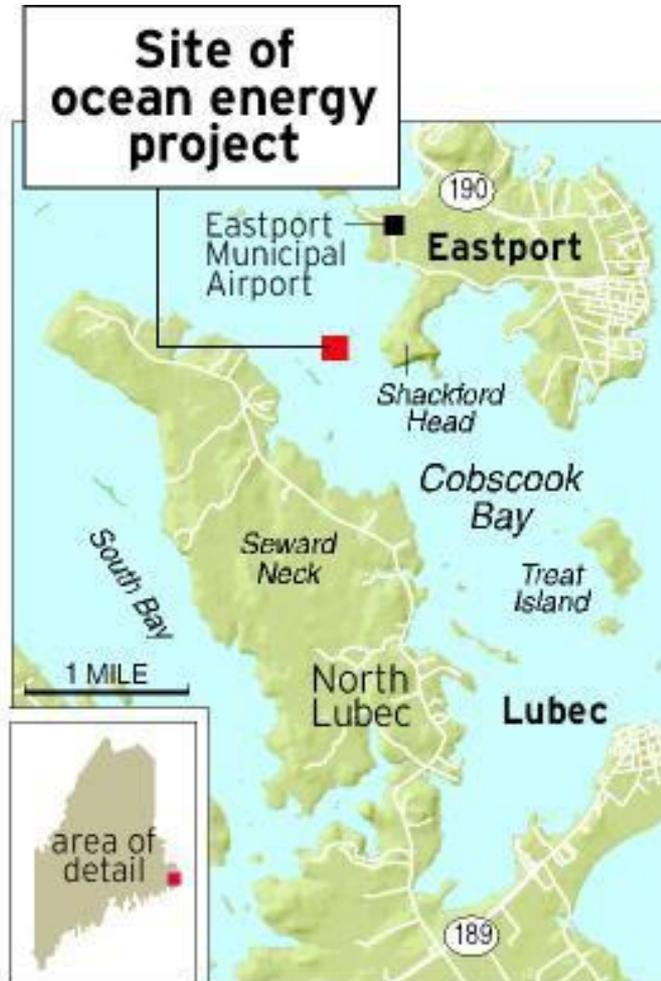


*Drawing not to scale

Tidal Energy

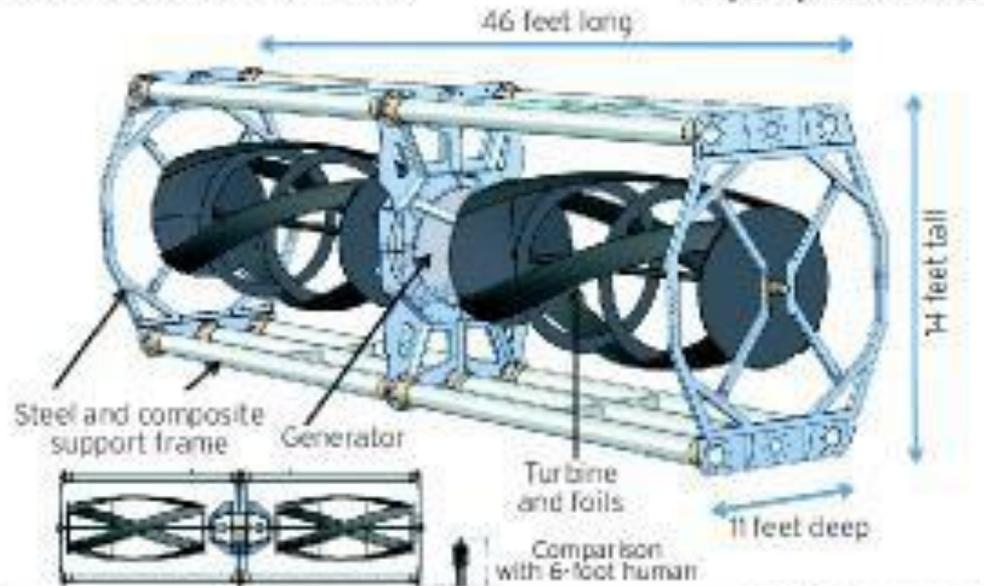


The Kitty Hawk of Tidal Energy



Ocean Renewal Power Co.'s Turbine Generator Unit

Weight: 13 tons
Maximum design capacity: 60 kilowatts



SOURCE: Ocean Renewal Power Co.

BANGOR DAILY NEWS



Sector San Francisco Renewable Energy

Petaluma PV PPA



1 MW Total Solar Power





Alaska Biomass



AIR STATION BARBERS POINT VERTICAL AXIS TURBINE



Air Station Barbers Point Vertical Axis Wind Turbine

Opportunities

- Energy Audit/ RCx Contract
- Advanced Metering
- O&M
- High Performance Sustainable ***Existing*** Federal Buildings
- Power Purchase Agreements

SUSTAINABILITY

GUARDIAN - YOU SAVE LIVES, NOW SAVE A PLANET.



UNITED STATES COAST GUARD
ENERGY MANAGEMENT PROGRAM