# Township of Ocean Schools



# \*an ESIP Success Story!

## Township of Ocean Schools



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Ocean needs and goals Available options to address needs ESIP requirements & process 3 Ocean's ESIP timeline Ocean's team & project scope Budget costs & expected savings Discussion

## Ocean needs and goals

- •Addition of cooling to large group areas in Ocean Township High School, Ocean Township Elementary School, Wanamassa and Wayside Elementary Schools
- Upgrade of lighting systems at all building which include exterior LED lighting systems
- Installation of occupancy sensors to control the lighting throughout the buildings
- Humidity control for Intermediate School Cafetorium
- Expansion of districts solar photovoltaic



### Available options to address need

Bond referendum

\*Taxpayer impact!

Lease purchase

- \*Taxpayer impact!
- ESIP funded through savings
  \*Funded through energy savings



## 3 ESIP basic requirements

Guaranteed energy & operational savings must exceed all costs

Annual **verification** of savings

**NO Taxpayer Impact!** 

\$ 0 Taxpayer Impact

15 Payback Period

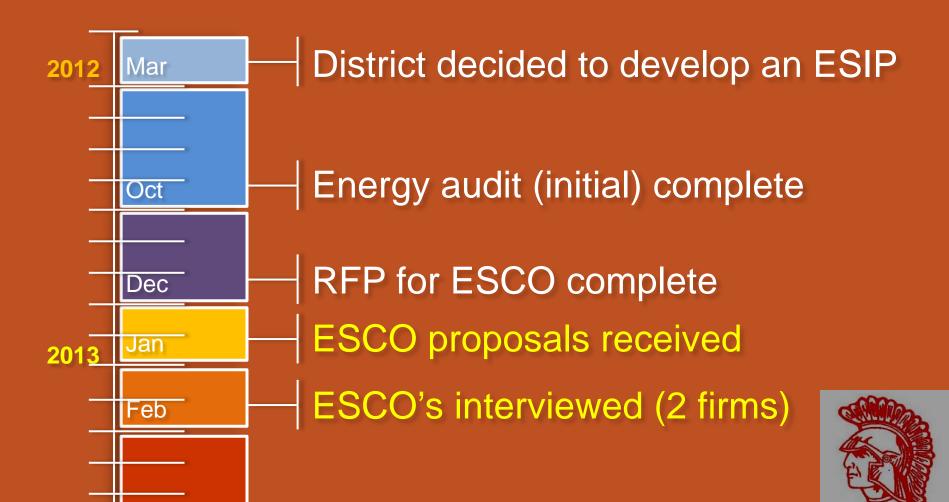


### **ESIP** basic requirements

- Energy audit to start process
- ESCO selection process- Competitive Contracting
- Design-build type approach
- Turn-key program
- 15 year payback; NO referendum



## 4 Ocean ESIP timeline





#### Ocean's team



**Board of Education** 

**Administration** 



McManimon Scotland, Baumann Bond Council

**Board Attorney** 





### Ocean's detailed project scope

#### **High School**

- Cafeteria Cooling
- Cooling for Gym
- DDC controls upgrade
- Pipe insulation
- Lighting systems
- Solar PV
- Kitchen Hood Controls
- Controls for Plug In equipment
- High efficiency hand dryers

# Intermediate School

- Humidity control for Cafetorium
- DDC Controls Upgrades
- Kitchen hood controls
- Lighting systems
- Controls for Plug In equipment
- High efficiency hand dryers

#### Ocean's detailed project scope

#### **Dow Ave**

- Cafeteria Cooling
- Gym Cooling
- Lighting systems
- Demand Control Ventilation
- Controls for Plug In equipment
- High efficiency hand dryers

#### Wayside Elem School

- Multipurpose room Cooling
- Lighting systems
- DDC controls upgrades
- Pipe insulation
- Controls for Plug In equipment
- High efficiency hand dryers

#### Ocean's detailed project scope

#### Wanamassa

- Multipurpose room Cooling
- Lighting systems
- DDC controls upgrades
- Pipe insulation
- Controls for Plug In equipment
- High efficiency hand dryers

#### Admin/Maint.

- Lighting systems (both)
- DDC controls upgrades
- Pipe insulation
- High efficiency hand dryers



### Examples







### Examples –

18/28/2012 12:00





12/25/2012 13:23

BUSTORIN

6 Budget costs & expected savings

Project Cost \$ \$3,227,795

Actual Interest Rate 2.65%

**Guaranteed 15 Year Savings** 

\$4,359,266



# 7 Discussion

Ocean: an ESIP Success Story

Guaranteed Savings over 15 years in excess of costs

**NO Tax Payer Impact!** 

Discussion?