



West Bloomfield Township



Energy Efficiency & Conservation Block Grant (EECBG) Update





Introduction to EECBG

West Bloomfield Township

- ❑ Part of stimulus package awarded in 2009
- ❑ Congress appropriated \$3.2 billion for the program
- ❑ Provides grants to fund projects that improve energy efficiency & reduce energy use & fossil fuel emissions
- ❑ Funds must be obligated within 18 months & spent within 36 months





EECBG in West Bloomfield

West Bloomfield Township

- ❑ West Bloomfield received \$571,800
- ❑ Approved to spend \$20,000 to develop a strategy
- ❑ Developed strategy in-house with help from the Michigan Rebuild Program
- ❑ Received free energy audit for 10 Township facilities:
 - ❑ Town Hall
 - ❑ Police Dept.
 - ❑ Water & Sewer Dept.
 - ❑ 6 Fire Stations
 - ❑ Family Aquatic Center

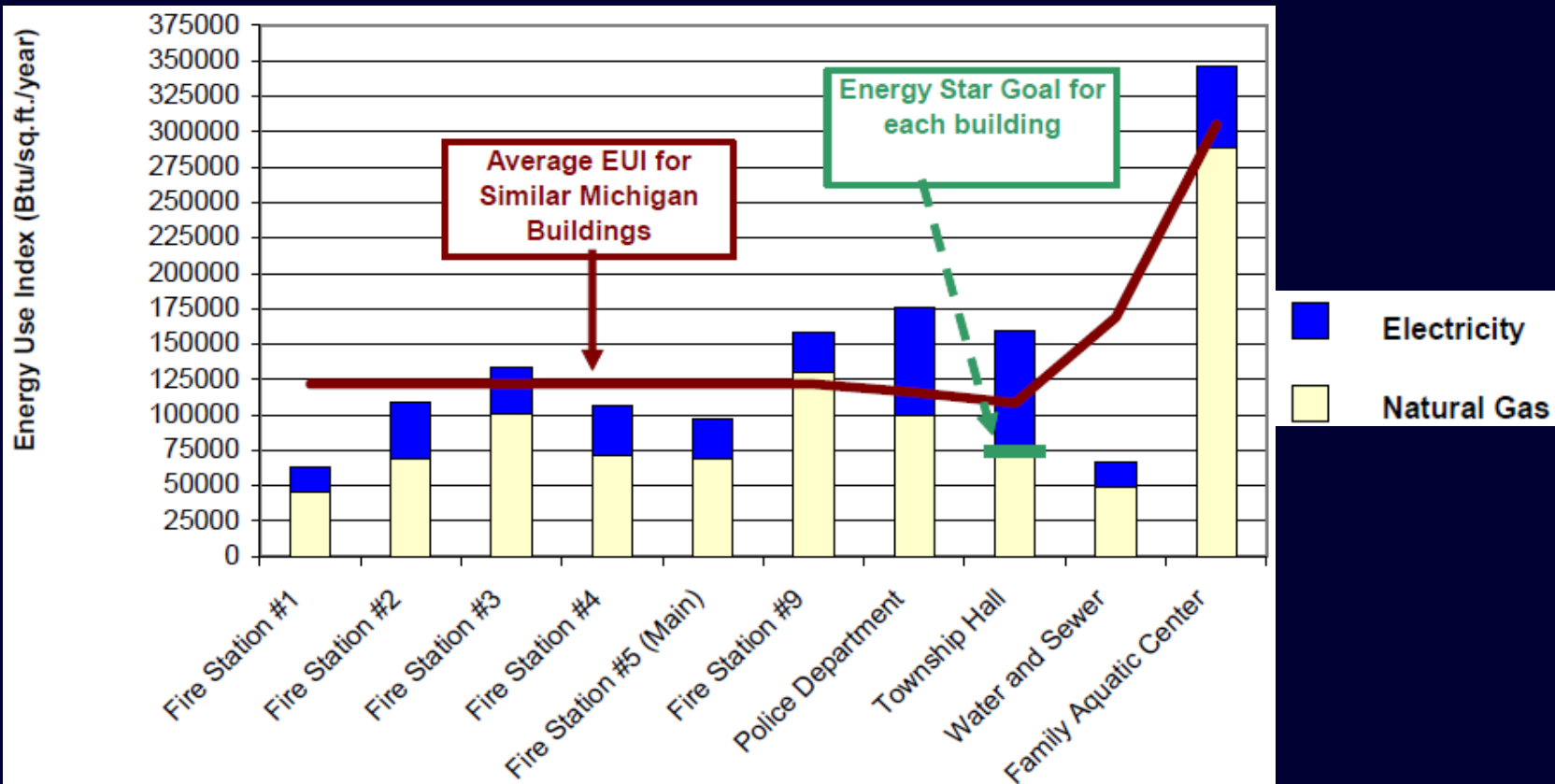




Energy Audit Findings

West Bloomfield Township

- Some facilities fared very well: Water & Sewer, some Fire Stations
- Others used more energy than the state average: Town Hall, Police, Aquatic Center, other Fire Stations





West Bloomfield EECBG Strategy

West Bloomfield Township

- ❑ Strategy submitted to Dept. of Energy on January 28
- ❑ Once approved, the Township will develop RFPs & go out to bid for construction of proposed projects
- ❑ Goal is to have construction completed within one year



6-lamp Fluorescent High Bay Fixture



With Protective Polycarbonate Lens



Passive Infrared
Occupancy Sensor
(replaces wall switch)



T8 Fluorescent

T5 Fluorescent



West Bloomfield EECBG Strategy

Project	Facility							Cost Estimate
	Town Hall	Police	Water & Sewer	Fire Station 1	Fire Station 2	Fire Station 3	Fire Station 4	
PROPOSED EECBG PROJECTS								
High Efficiency Fluorescent Lighting Systems	\$ 40,100	\$ 44,875		\$ 8,150	\$ 6,850	\$ 3,675	\$ 7,375	\$ 111,025
HVAC Upgrades	\$ 75,000							\$ 75,000
Radiant Heat	\$ 2,800	\$ 12,000	\$ 45,600	\$ 14,000	\$ 9,200	\$ 13,000	\$ 9,200	\$ 105,800
High Efficiency Boiler System					\$ 25,800		\$ 25,800	\$ 51,600
High Efficiency Furnace Replacement			\$ 15,625	\$ 45,900		\$ 10,500		\$ 72,025
High/Low Bay Light Fixtures		\$ 4,000		\$ 3,900	\$ 3,300	\$ 3,300	\$ 3,300	\$ 17,800
Occupancy Sensors	\$ 16,500	\$ 5,000						\$ 21,500
Window Tinting Skylights		\$ 4,000						\$ 4,000
Caulking Skylights		\$ 17,200						\$ 17,200
Weather Stripping, Caulking & Sealing	\$ 9,700	\$ 11,000				\$ 18,000		\$ 38,700
Total by Building	\$ 144,100	\$ 98,075	\$ 61,225	\$ 71,950	\$ 45,150	\$ 48,475	\$ 45,675	\$ 514,650
Development of Strategy								\$ 6,000
SUBTOTAL								\$ 520,650
Administration (10%)								\$ 51,150
TOTAL								\$ 571,800



West Bloomfield Annual Savings

West Bloomfield Township

- 7 jobs created/retained
- Over 1 million kwh expected energy savings
- 786 metric tons GHG emissions reduced (CO2 equivalents)
- Changing of current lights at facilities to T-8 bulbs alone is estimated to save the Township over \$33,000 in energy bills
- Estimated combined savings of all projects results in over \$65,000 annually with potential for over \$16,000 in rebates