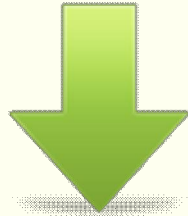




Macomb County EECBG

Jeremy McCallion

EECBG Goals



Reduce

- Energy
- Costs
- CO₂



Comply

- DOE & ARRA requirements
- Extend EECBG funds



Identify

- Future opportunities

Retrofits



County Building Lighting Retrofit

- Retrofit lighting from T-12 to T-8
- Install daylight and occupancy sensors

Water Cooled Unit Retrofit

- Replace Water-Cooled system with air cooled system
- Install new reflective ceiling tiles on first floor



VerKuilen Lighting Retrofit

- Retrofit lighting from T-12 to T-8

Estimated Energy and Cost Savings

Project	kWh	\$ Savings
County Building Lighting Retrofit	108,038	\$10,803
Verkuilen Lighting Retrofit	80,493	\$8,049
Total	188,531	\$18,852

Estimated Water and Cost Savings

Project	Water (cu ft)	\$ Savings
Water Cooled Unit Retrofit	84,000	\$65,135
Total	84,000	\$65,135

Estimated Annual Total Savings :
\$83,987

Energy Audits – Q1 2012

Level I Walk-through Energy Analysis

- Utility bill analysis and benchmarking
- Evaluates low-to-no cost energy conservation measures (ECMS)
- Provides energy and economic analysis of the ECMs
- Develop plan for future improvements
- Evaluates available incentives to implement measures
- Meets ASHRAE Standards

Level I Energy Audits for:

- VerKuilen Building
- Mt. Clemens Health Center
- Probate Court Building





Thank You.

Jeremy McCallion, December 5th, 2011