

# Energy Conservation for Your Business

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Pennsylvania Technical Assistance Program

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# PennTAP Services

## Energy and Environment

- Pollution Prevention and Energy Efficiency Projects (P2/E2)
- Economy, Energy & Environment Assessments (E3)
- ISO 50001 Ready (Energy Management System)

## Innovation

- Engagement with Penn State Faculty, Students, Facilities
- Product and Process Development
- Statewide Resource Partners
- Entrepreneurial Assistance



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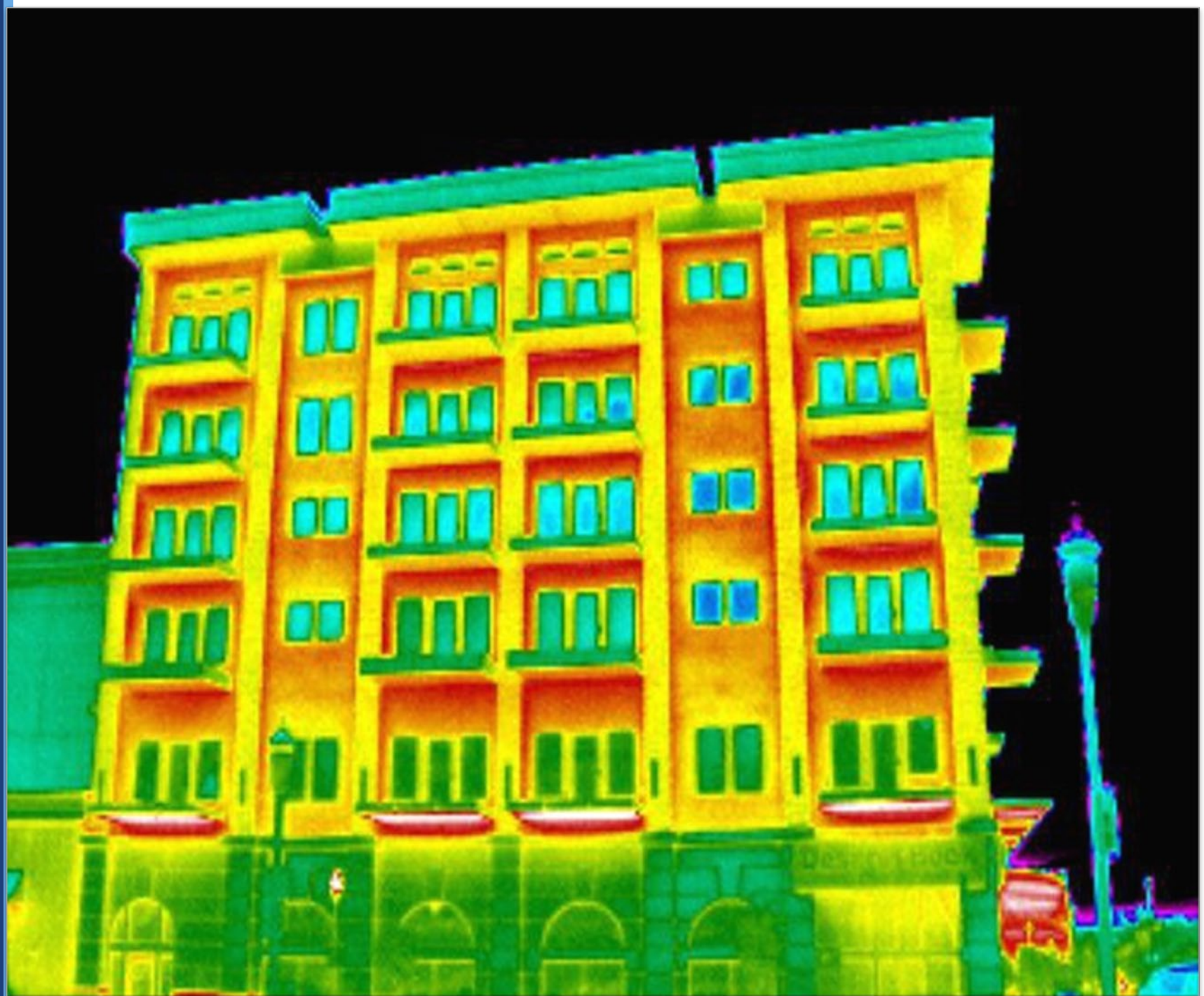


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# Energy Conservation Projects







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# Lighting



# HVAC

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- Annual maintenance
- Replace worn window and door seals
- Programmable thermostat
- Upgrade to ENERGY STAR® unit
- Bigger is not always better



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# Refrigeration

- Identify and repair refrigerant leaks
- Clean condenser coils
- Lubricate fan motors
- Check gaskets and seals
- Install plastic strip curtains





# Manufacturing

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- Repair compressed air leaks
- Waste heat recovery
- High efficiency motors, VFDs



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# Building Automation System

Reduce energy  
consumption by as much  
as 20-30%!





# Energy Conservation Funding Opportunities

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- 🐾 Act 129 Utility Rebates
- 🐾 Small Business Advantage Grant (SBAG) – PA DEP
  - 🐾 100 Employees or less
  - 🐾 Reduce energy consumption by 20% annually and save \$500 per year in energy costs
  - 🐾 Pays for equipment only
  - 🐾 Max grant award - \$5,000 - \$8,000
- 🐾 Rural Energy for America Program (REAP) – USDA
  - 🐾 Pays for up to 50% of eligible project cost
  - 🐾 Max grant award - \$500,000 for energy efficiency projects, \$1,000,000 for renewable energy projects
  - 🐾 Highly competitive - no guarantees
  - 🐾 Must be located outside of an area with a population of 50,000 or greater and meet the SBA definition of a small business



# Case Study – Rebates and SBAG

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- A 60-employee manufacturing company received a \$4,846 grant to upgrade to LED lights. They also received over \$4,400 in utility rebates.
- The total project cost was just over \$19,000.
- They anticipate saving over 70,000 kwh of electricity, with an annual savings of \$11,293.
- The simple payback period for their portion of the cost is less than a year!

# Contact Information

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