

Montgomery Environmental & Sustainability Initiatives

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What are we *already* doing?

- Purchasing “green”
 - Purchase recycled copy paper when available
 - Purchase energy efficient fluorescent bulbs
 - Solar powered trash compactor installed at Montgomery Park
- Upgrading facilities when possible
 - 3 energy efficient boilers installed @ Municipal Building
 - Working on thermostat programming

What are we *already* doing?

- Recycling / Reuse
 - Expended toner cartridges sent back to manufacturer for recycling
 - Salvage electronics sent to electronics recyclers
 - Expended fluorescent bulbs sent to electronic disposal company
 - CFLs replace incandescent bulbs as they burn out



Topics

- Sustainable Jersey
- Somerset County Energy Audit Application
- Sustainability Committee suggestions
- Carbon Inventory
- ANJEC Grant
- PSE&G Solar Loan
- Meadows

Sustainable Jersey



- Certification program offered by Municipal Land Use Center (TCNJ) & Sustainable State Institute (Rutgers)
- Municipalities must complete action items (worth 10-30 points each) to reach 100 point certification
- Certified municipalities are then eligible for grant money
- www.sustainablejersey.com

Sustainable Jersey

- Status
 - 40 points as of 4/16/09



Action Item	Point Value Achieved
Establish Env'l. Comm.	10
Critical Areas Ordinance	10
Tree Protection Ordinance	10
Cluster Ordinance	10

Sustainable Jersey

- Projects Underway

Item	Points	From
Earth Day Fair	10	EC
Tree planting program	10	STC
Carbon Inventory	10	EC / SC
Mayor's Wellness Campaign	10	Health
Municipal Energy Audits	10	County

Sustainable Jersey



- What's next?
 - **TC to appoint Green Team (mandatory)**
 - Ordinances/Resolutions – does TC want to proceed with action or more research on these items?

Action Item	Points	Who?
Appoint Green Team	10	TC
Green Purchasing Policy	10	Purchasing
Sustainable Land Use Pledge*	10	MPC / PB
Water Conservation Ordinance*	10	Engineering

* *denotes priority action*

Sustainable Jersey

- **Establish Green Team**
- EC recommendations:
 - Green Team as subcommittee of EC + additional stakeholders



- 7 EC members
- 7 Sustainability Steering Committee members
- Representatives from other committees (EDC, OSC, Recreation, etc.)
- Municipal staff (DPW, Admin, Planning/Open Space)

- 1st EC meeting of month dedicated to SJ

Sustainable Jersey

Quickest path to certification

- **COMPLETED ITEMS**

- Environmental Comm.
- Cluster ordinance
- Tree protection ordinance
- Critical areas ordinance
- **40 Points**

- **PROJECTS UNDERWAY**

- Shade Tree Plantings
- Carbon Inventory
- Earth Day summary
- Mayor's Wellness
- Energy Audits*
- **50 Points**

- **TC DECISION ITEMS**

- Green Team**
- Green Purchasing Policy
- Sustainable Land Use Pledge*
- **30 points**

* *priority action*

** *mandatory action*



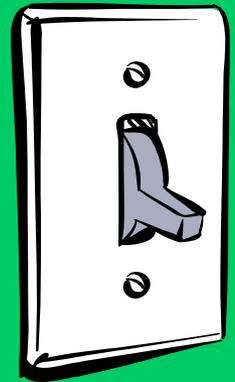
Somerset County Energy Audit Grant Application

- Application submitted February 2009
- Application for energy audit of:
 - (1) Municipal Building
 - (2) Otto Kaufman Community Center
- **Status: Awarded audits for MB & OKCC;
Township will receive 2 proposals
from pre-selected firms**
- *School District: Awarded 3 audits
(HS, UMS, Orchard Hill)*

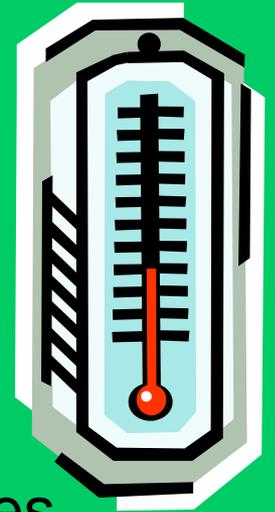


Sustainability Committee Suggestions

- Submitted list of ideas in January
- Some items were already being completed
- Items that require employee education
 - Turn off lights in unoccupied rooms/offices
 - Recycling
 - Reduce idling of Township vehicles
 - Computers off / “hibernate”
 - Default print margins
- Plan to address



Sustainability Committee Suggestions



- Items requiring potential TC action:
 - Install locking cover over thermostat in OKCC bathrooms
 - Adjust thermostats in Muni Bldg & other facilities
 - Formalize recycling tonnage reporting process
 - Set minimum requirement of snowfall before plowing takes place
 - Install motion sensors on lights in conference rooms
 - Water filtration vs. bottle delivery

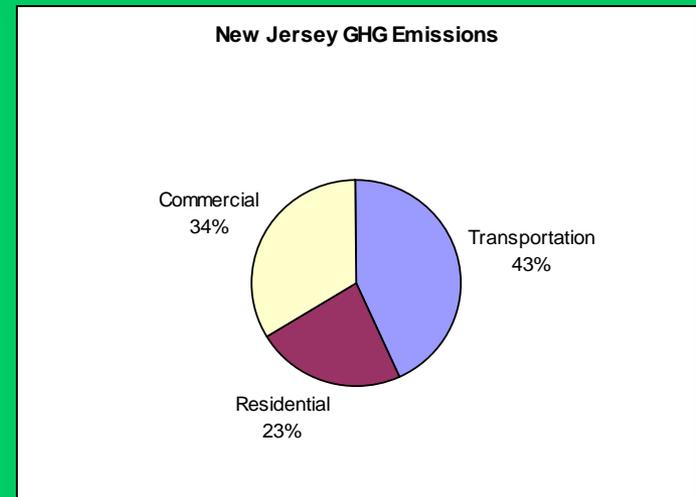
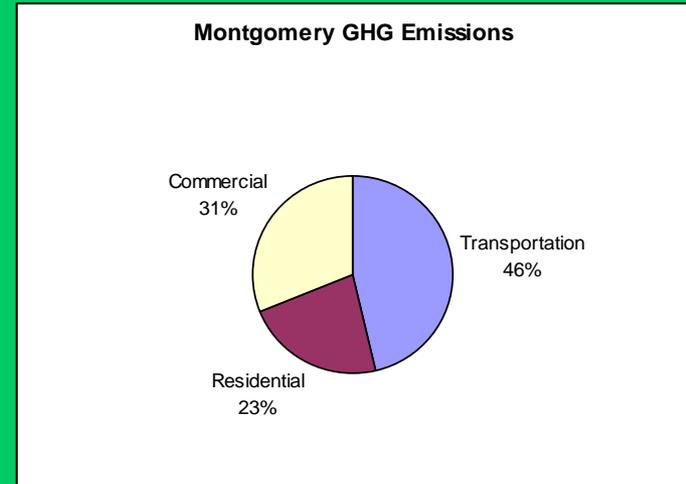


Carbon Inventory

- Sustainability Committee & staff worked with students from Richard Stockton College
- Assessed greenhouse gas emissions Township-wide by sector (i.e. residential, commercial, municipal)
- First step to reducing greenhouse gases (GHG)
 - Identify priority areas
 - Enables tracking of progress and ability to determine if new policies are having an impact
 - Powerful tool for galvanizing public interest and support for new actions

Carbon Inventory

- Township's 2008 energy use and greenhouse gas emissions
 - Energy = 3,640,556 MMBtu
 - Electricity = 94,616,157 kWh
 - Emissions = 369,268 tons eCO₂
- Distribution of Township emissions similar to State average
- However:
 - State goal of 20% reduction
 - Emissions per capita tons (eCO₂/person) much higher than other countries:
 - Europe 8.7
 - Japan 10.2
 - Montgomery Twp 16.0
 - United States 19.8



ANJEC Grant

Sustainability Element to Master Plan

- ANJEC = Association of New Jersey Environmental Commissions
- Grant offers planning assistance
- Applied in March for funding to create Sustainability Plan (element to Master Plan)
- Plan would address:
 - Recycling
 - Site design
 - Alternative energy
 - Conservation of resources
 - Building design

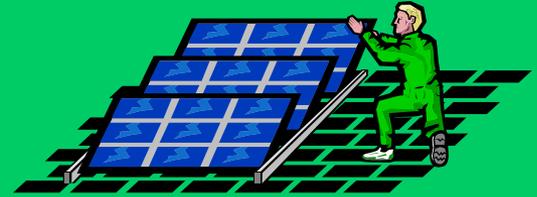


PSE&G Solar Loan Program

- PSE&G offers 15 year loan
- Pays ~ 40%-60% of cost of install
- Remainder of loan can be paid off with sale of SRECs (solar renewable energy credits) instead of cash
- Requirements:
 - Roof with southern exposure
 - Roof <5 years old (loan does not cover cost of roof stabilization/repair/replacement)



PSE&G Solar Loan



- 2 models of participation
- **Direct Ownership:** Town owns & operates system, responsible for maintenance
 - All benefits belong to Township (use of energy, sale of SRECs)
 - Payback: 2-4 years
- **Purchased Power Agreement (PPA):** Township acts as host site; solar developer installs & maintains
 - Township enters into long-term contract for use of electricity at reduced price

Meadows

- Convert detention basin(s) to meadow?
- Tama Matsuoka, author of Meadows on the Menu, offered to help us with a [demo project](#)
- Benefits:
 - Less mowing needed
 - Plants would absorb more water
- Rich Bartolone - ID basins that are possible; suggested near a stream/creek

Questions?



Don't forget, EARTH DAY FAIR 4/26 11:00 AM – 3:00 PM @LMS