

Kennett Square Comprehensive Plan



Energy Conservation

July 13, 2011 - 7:30pm

Energy Conservation Initiatives

In the 1990s!



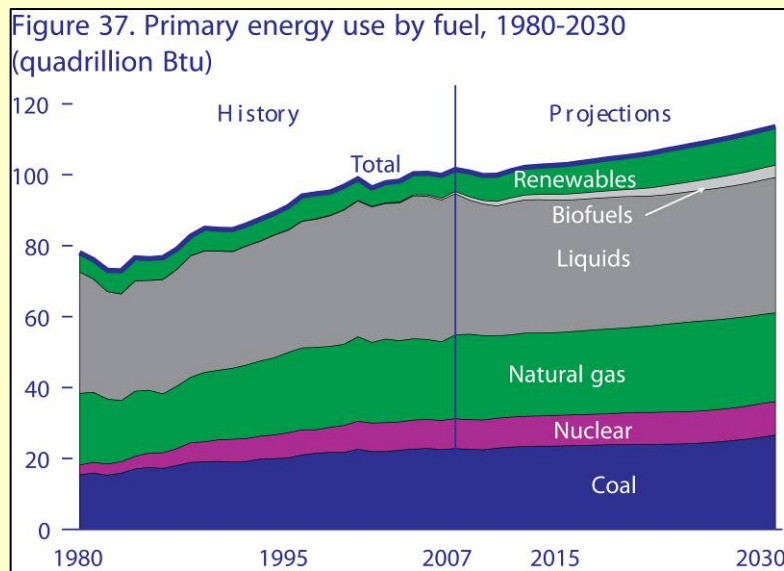
In the 2010s?



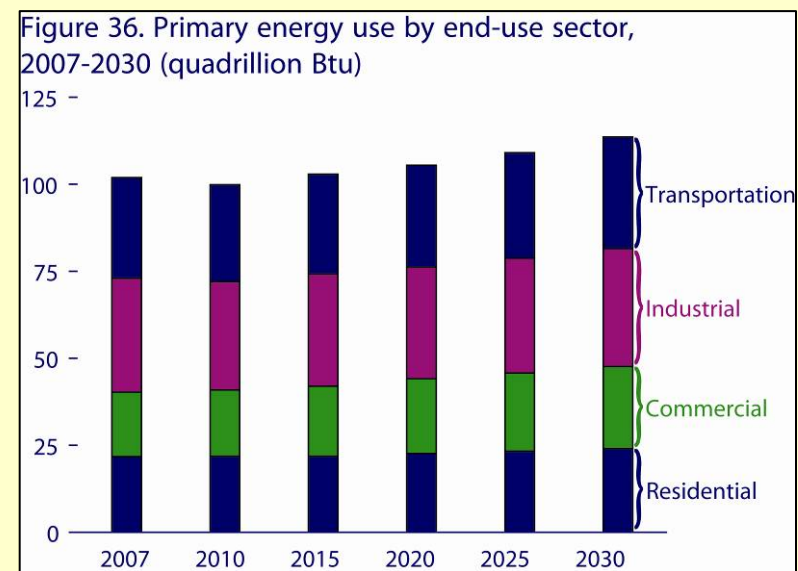
Do you expect future state and federal energy conservation requirements to expand much like recycling requirements were expanded in the 90s?

Energy Sources and Demands

Sources



Demands



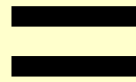
Source: U. S. Energy Information Administration, Annual Energy Outlook 2009

Demand is the **amount of energy** required to make cars, factories, stores, and houses function.

Good for the Local Environment, and the Local Economy!



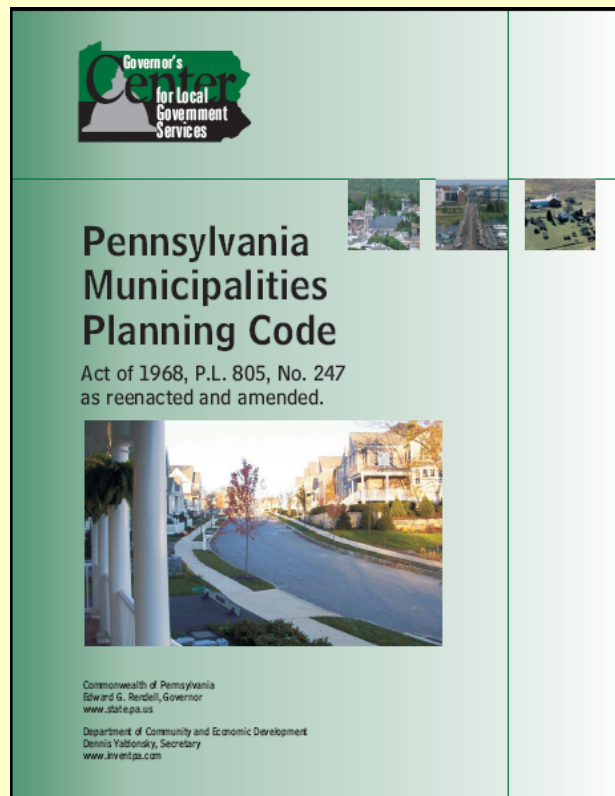
Solar panels recently installed in
Chester County



How has the Borough capitalized on state and federal funding sources for green technologies and infrastructure?

Part of Act 247

The Municipalities Planning Code



Section 301.1. Energy Conservation Plan Element

... the comprehensive plan may include an energy conservation plan element which systematically analyzes *the impact of each other component and element* of the comprehensive plan on the present and future use of energy ...

Key Conservation Elements

What we say

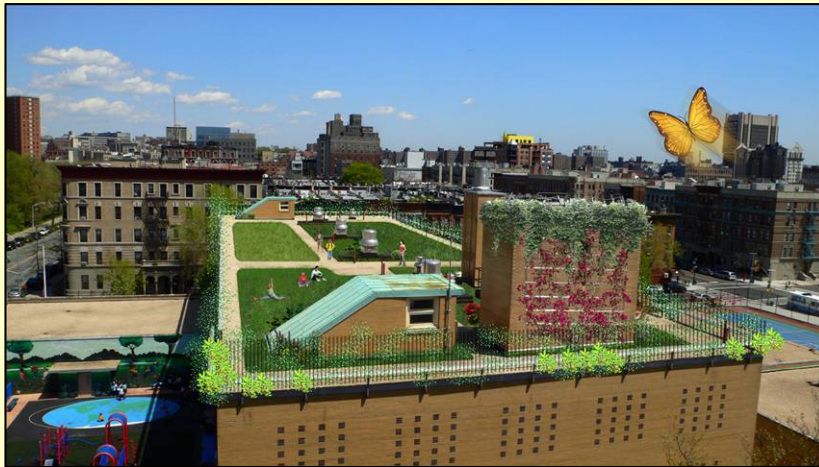
1. Reducing Demand and Consumption
2. Improving Energy Efficiency
3. Revitalization, Reuse, and Recycling
4. Alternative and Sustainable Energy
5. Restoring Traditional Energy Conservation

What we mean!

- 1. Don't use so much!**
- 2. Don't waste it!**
- 3. Use it again!**
- 4. Wind and solar!**
- 5. Use it the way your grandma did!**

Accommodating New Technology

A new wave of technologies has arrived, but in ten years it may be superseded by technologies that are not yet available.



On-site energy conservation and generation can be an effective way to implement energy conservation. Can you provide any examples?

Don't Use So Much!

Reducing Demand & Consumption

1. Commercial & Industrial (including Agriculture)

Green businesses and industries

2. Residential

Public/homeowner education

3. Transportation

Increase and encourage transportation options

4. Utilities and Infrastructure

Fix leaking pipes, pay as you go options

5. Community Services

Green public buildings, paperless
(web-based) services



Don't Waste it!

Improving Energy Efficiency

1. Commercial & Industrial (including Agriculture)

Replacing old systems, use new technologies

2. Residential

Weatherizing, Energy-efficient appliances



3. Transportation

Reducing congestion, LED signals, reduce SOV trips

4. Utilities and Infrastructure

Increase efficiencies (geothermal, alternative energies)



5. Community Services

Combining redundancies, energy audits for facilities



Use it Again!

Revitalization, Reuse & Recycling

1. Commercial & Industrial (including Agriculture)

Revitalizing downtowns, incentive zoning, mixed use

2. Residential

Expanding recycling, community gardens

3. Transportation

Increasing carpooling, public transit, and bike-ped opportunities

4. Utilities and Infrastructure

Use recycled construction materials, porous paving

5. Community Services

Retaining public services within built and walkable areas



Wind and Sun!

Alternative & Sustainable Energy

1. Commercial & Industrial (including Agriculture)

New industries such as food oil recycling

2. Residential

Wind and solar used in residential areas

3. Transportation

Public agencies buying alternative fuel vehicles

4. Utilities and Infrastructure

Infrastructure to support alternative fuels vehicles

5. Community Services

Biking and walking to parks, clinics, shopping



Do it Like Grandma!

Restoring Traditional Conservation

1. Commercial & Industrial (including Agriculture)

Walking to lunch, windows that open, area thermostats

2. Residential

Weatherization, permitting air drying laundry



3. Transportation

Walking to work, bike accessibility, home occupations

4. Utilities and Infrastructure

Windows that open, right-sizing projects

5. Community Services

Walkable (pedestrian-friendly) communities

Complete mix of goods and services, Signs



Education

Conservation is more than technology and regulation

Who needs to be educated?

Children

Business owners

Farmers

Homeowners

Commuters

School Administration

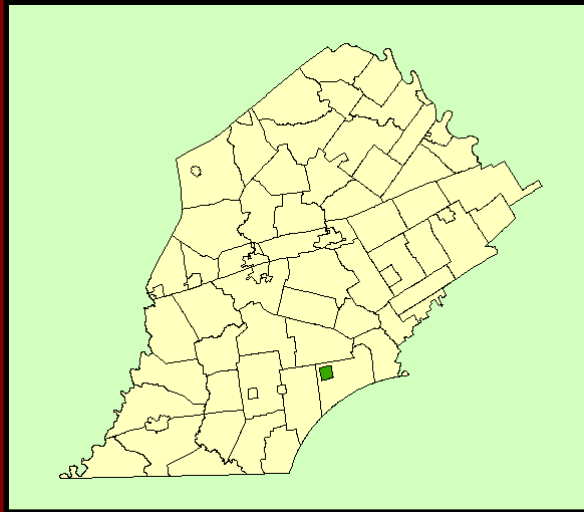
Public officials

Planners & Attorneys



Who else needs to be educated?

Questions
or
Comments?



Kennett Square Comprehensive Plan

Thank you

and

Good night!