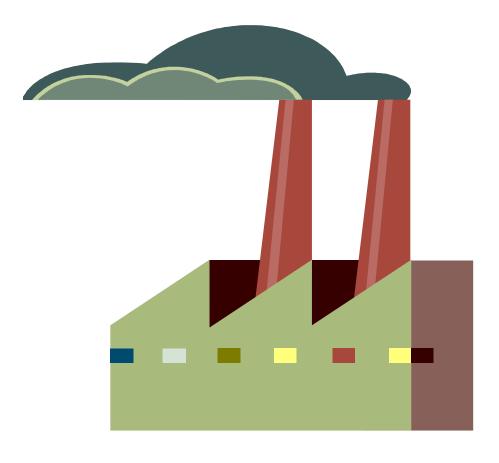
Where does electricity come from?



Electricity is made in a coal-fired power plant, using turbines that are turned by the energy of ...

Steam!



Electricity is made in a powerhouse. There turbines are turned by the weight of the water behind the dam. The water is put there by...



http://a0700202.uscgaux.info/lakes.html

Rain!



Electricity is made at nuclear power plant by unlocking the power of the...



Atom!

A wind turbine makes electricity whenever its blades are turning. The energy that turns the blades comes from ...

Wind!



This solar panel makes electricity directly from the energy of the...

Sun!



http://www.newenglandbreeze.com/ithaca.shtml

This hand generator makes electricity when you crank it. Its energy source is ...

You!



http://www.sargentwelch.com/product.asp _Q_pn_E_WL2410_EA_A_Electric+Generator,+Genecon+Hand_E_

Predict... which electricity source is the...

- most Powerful?
- most Polluting?
- lowest Priced?
- most Popular?

most Powerful

How many people would have to crank a generator for an hour to make as much electricity as one ounce of coal makes?





www.wolverinesports.com/SCI/ELECTRIC/12634.JPG

most Polluting

Coal is a major source of...

Mercury pollution in fish...

Acid rain that weakens trees...

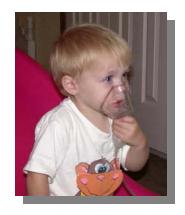
Smog that triggers asthma attacks...

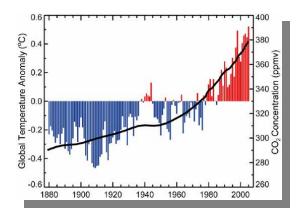
Carbon dioxide that causes climate change...

Mountaintop removal when coal is mined.



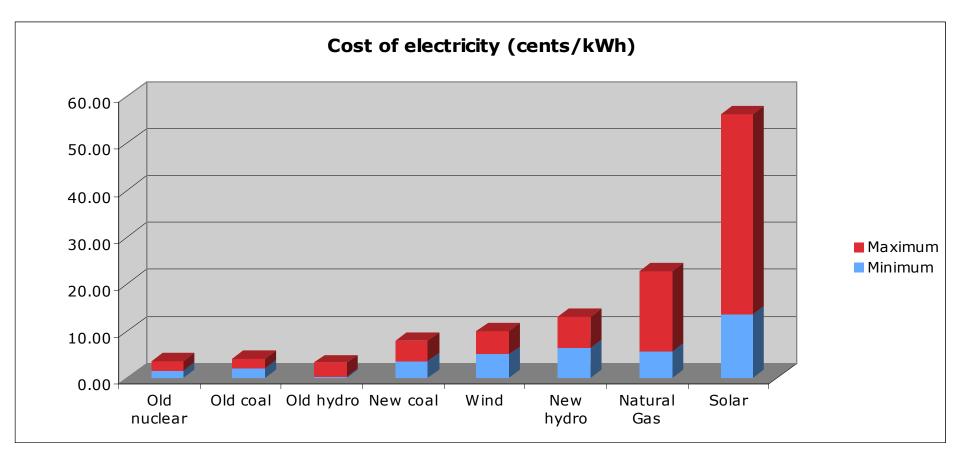








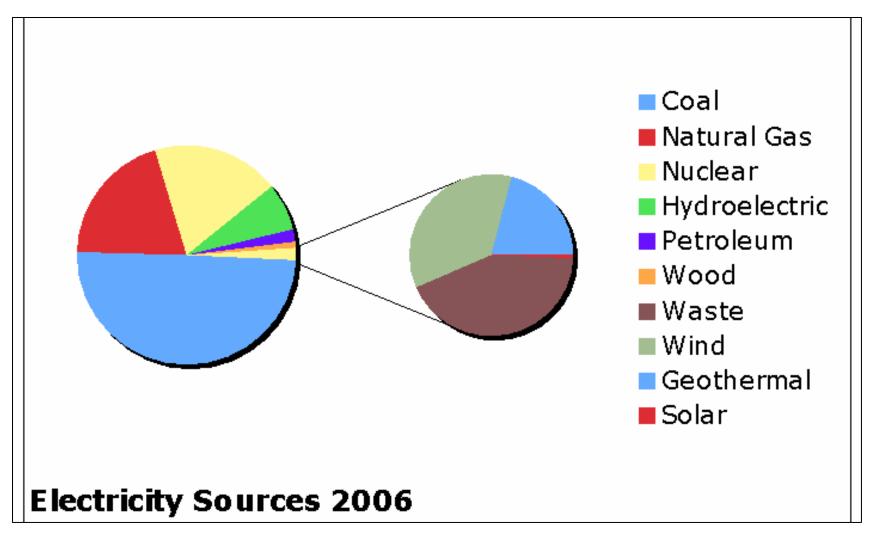
lowest Priced



Data from http://www.tva.gov/environment/air/ontheair/renewable.htm

most Popular

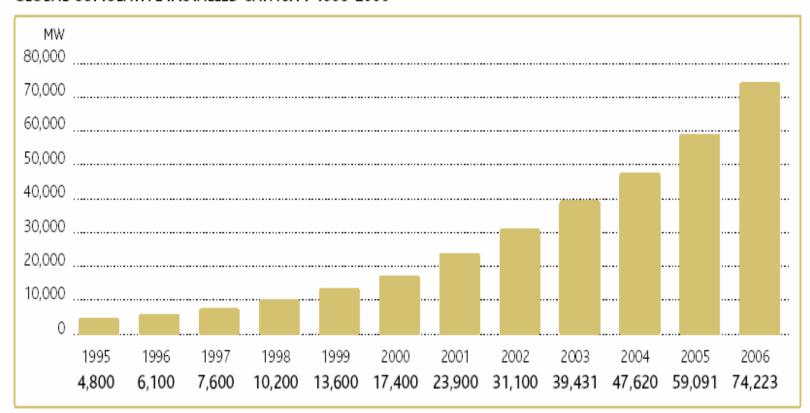
(for now... but in the future?)



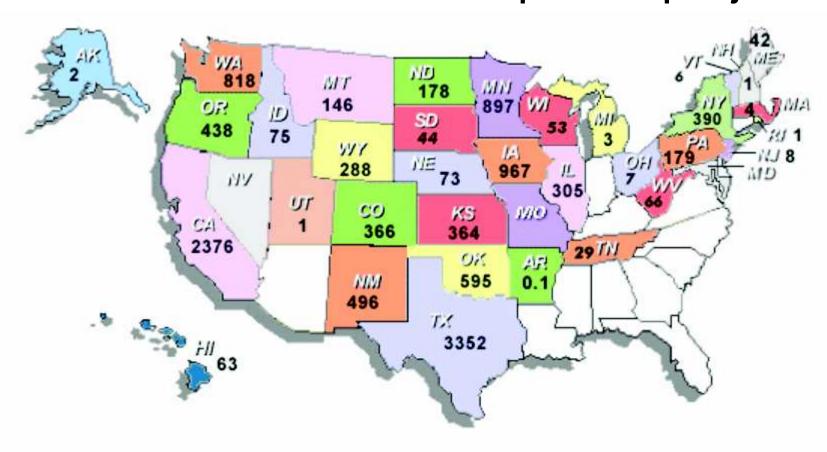
Data from http://www.eia.doe.gov

Wind power is the fastest growing renewable source of electricity

GLOBAL CUMULATIVE INSTALLED CAPACITY 1995-2006

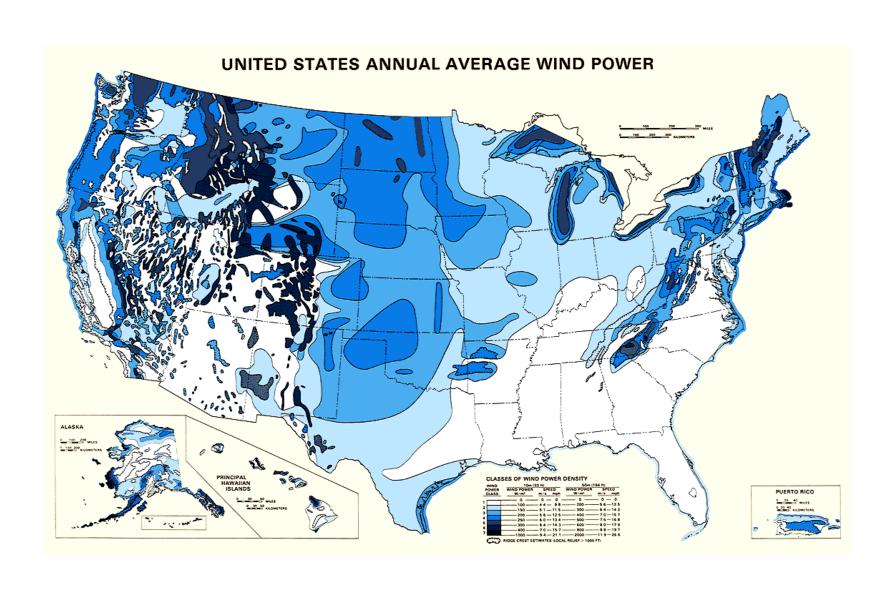


Most states have wind power projects

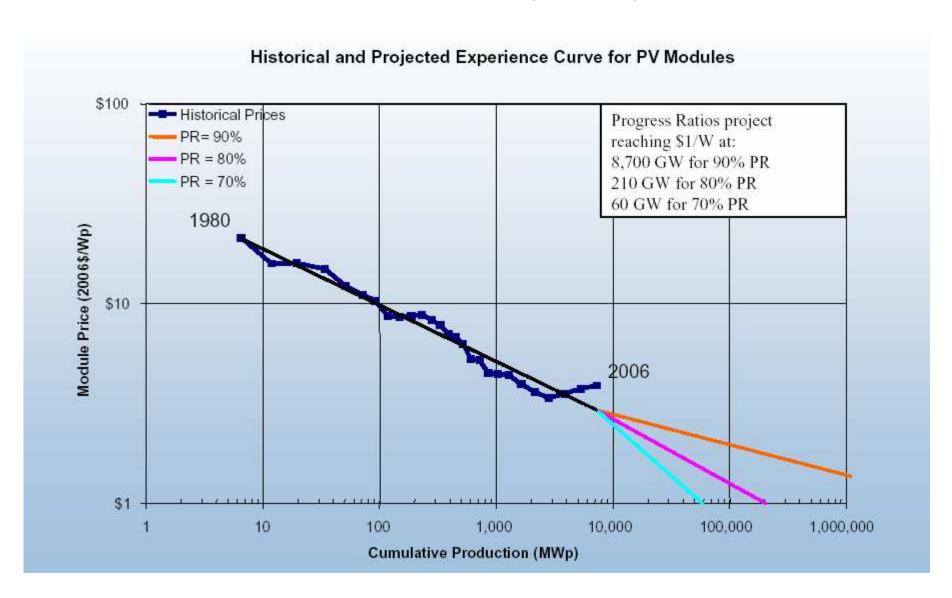


TOTAL INSTALLED U.S. WIND ENERGY CAPACITY: 12,634 MW as of June 30, 2007

Georgia has limited wind power potential



Cost of solar is going down

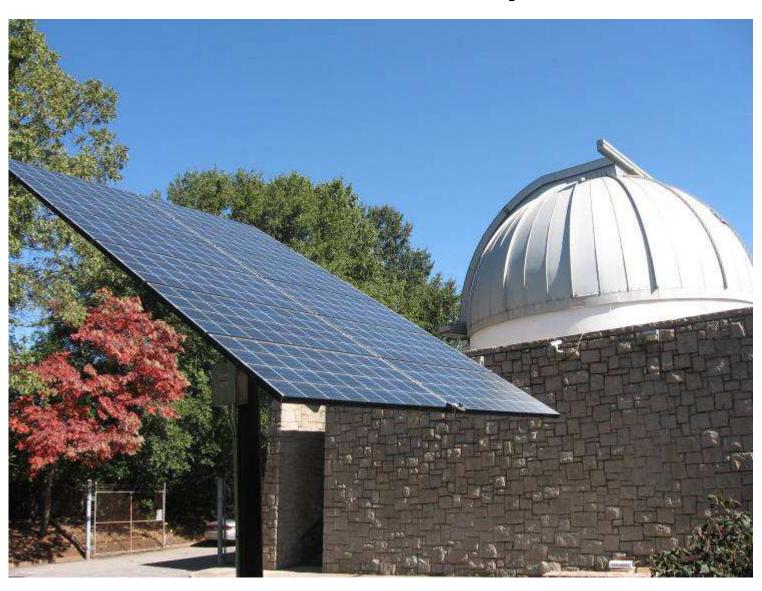


Electricity from the Sun

Will every roof look like this someday?



Fernbank Solar Experiment



The Fernbank solar panel is capable of producing 1.29 kW of power

One World Sustainable Energy Fernbank Science — Atlanta, GA **VIEW** Simple Detail As of 3:13 PM Nov 10, 2008 System Size: 1.29 kW DC Cell Generating 892 W Temp Temp 101.4° 61.4°F Historical 0 Today Week Lifetime <u>Month</u> Year 1.5 ₹ 1.0 Generated 8 kWh 0.5 0.0 4 AM 8 AM 12 PM 4 PM 8 PM Greenhouse Gases Avoided Since Installation May 27, 2008 1

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CO₂ 1,619 lbs.

Average household CO2 output is 22,750 lbs./yr.

Equivalent to:

The energy to power 12

homes for

one day.

The pollution an

passenger car

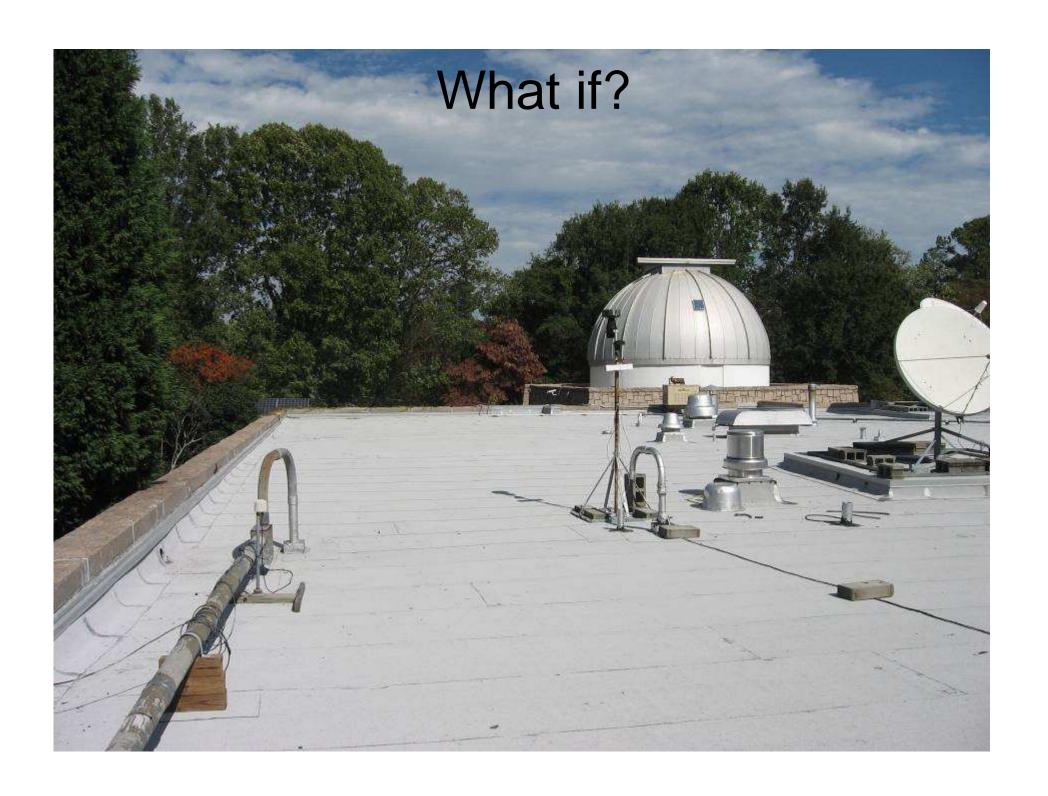
emits over 59.11

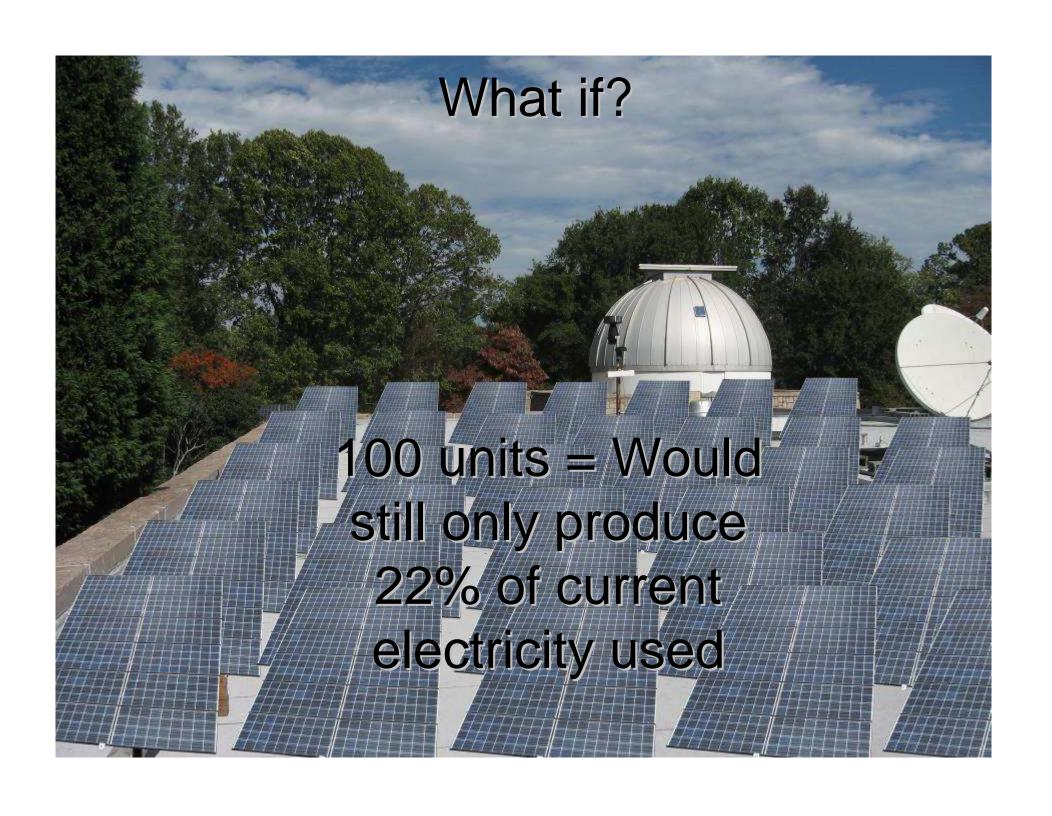
Click this link to see real time data from the Fernbank solar panel http://view2.fatspaniel.net/PV2Web/merge?&view=PV/detail/HostedAdmin&eid=46688

Does the weather matter? Notice any trends?



(Weather records from www.weather.com)





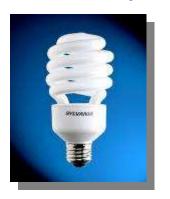
To get to a solar economy:

- Improve building energy efficiency
- Keep bringing solar panel costs down

In the meantime, please save electricity



Change your light bulbs



Look for the Energy Star label

Set the thermostat

Turn off lights

