

Donna A. Suter Business Development Rep, Green Power Switch

April 12, 2012



Back to the Future: Earth Day 1970



WILDLIFE - L to R - Dr. James Byford, Extension Wildlife Specialist; Mrs. Vendora Cobb, County Extension Economist, Screven County; Donna Ash, State Winner, Screven County; Mr. Clabe Chapman, Georgia Power Company.

Donna Asi, daughter of Mr. and Mrs. George B. Ash, Jr., of Oliver, has won the ninth year by the power company in cooperation with the Cooperative Extension Service. The the story of wild turkeys and their importance to the state. She was the Southeast dis-



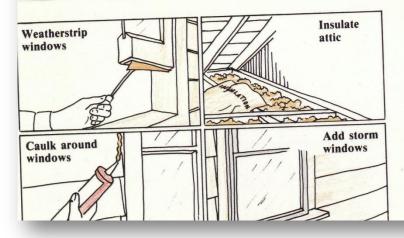
Earth Day 1980





1986





Conservation

The milder days of September are a good time to give y house a weatherization checkup and spot places that could k the coming cold of winter. Weatherstrip around doors, c around windows, and install foam gaskets in outlets to seal cold. And ask your distributor of TVA power or TVA for a home energy survey. The program includes low-interest loan weatherization materials and labor.

For information on easy steps that you can do first to money and energy, call the Citizens Action Line (see back co or your power distributor for the brochure "How to Save on Electric Bills: 97 Low Cost/No Cost Ideas."



Earth Day 2000: Green Power Switch®

It's a simple way to increase use of renewable energy today for a cleaner environment tomorrow.

- Adds more *renewable* energy to our local grid
- Preserves natural resources
- Protects our environment
- Offered by TVA and participating local power companies

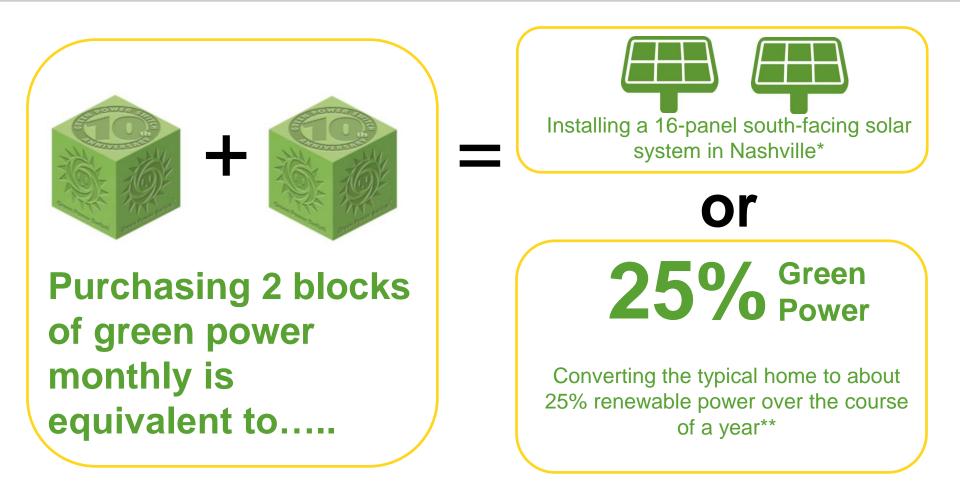








What does a Green Power Block Equate to?



*Assumes 175 W(dc) photovoltaic panels located in Nashville. Calculated using PV Watts v.2. The calculation for 2.8 kW (16 panels X 175W) yields an annual output of 3,577 kWh, or an average of 298 kWh/month.

** Based on average TN Valley state residential use of 1,205 kWh/ month Source: <u>http://www.eia.gov/cneaf/electricity/esr/table5.html</u>



Why do Customers Sign Up?

- Provides a simple low cost way for people to do their part for a bigger issue
- Preserves natural resources for future generations
- Encourages renewable energy use
- Meets corporate environmental goals
- Reduces their environmental footprint
- Provides positive PR
- Benefits of customer recognition program
- Sign-up for Green Power Switch by: Visiting <u>greenpowerswitch.com</u> Calling 1-866-673-4340 Calling local power company





7

How does Green Power Switch Work?

1. Customer buys "blocks" (each 150 kWh) of Green Power Switch at \$4 each Local utilities include an extra line item for this premium product on customers' monthly electricity bills.

2.TVA ensures at least an equivalent amount of regional renewable energy is generated

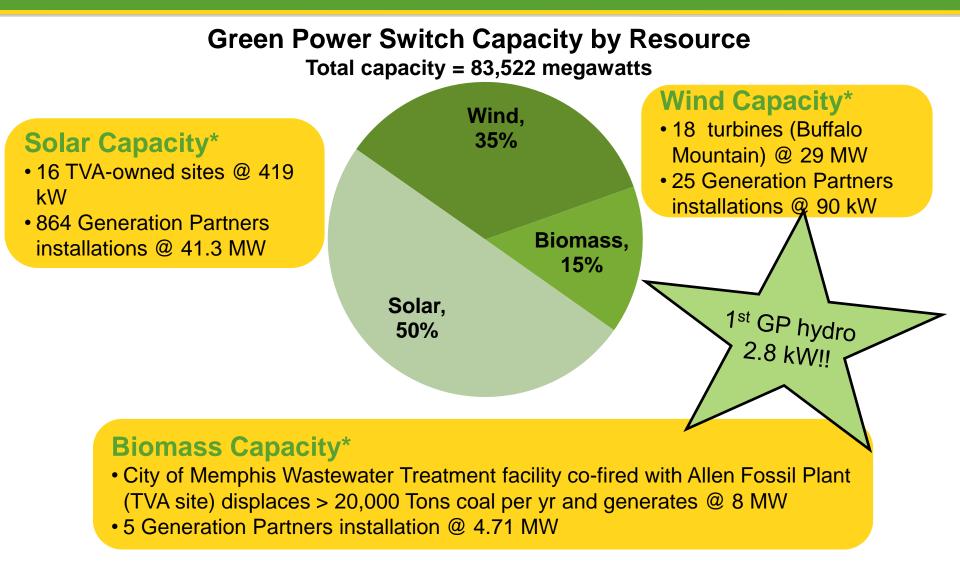
TVA generates or purchases renewable energy above and beyond what 's already included in the regular generation mix (e.g. coal, nuclear, natural gas, and hydro).



3rd party verification process ensures that customer GPS purchases result in added renewable energy to our regional grid.



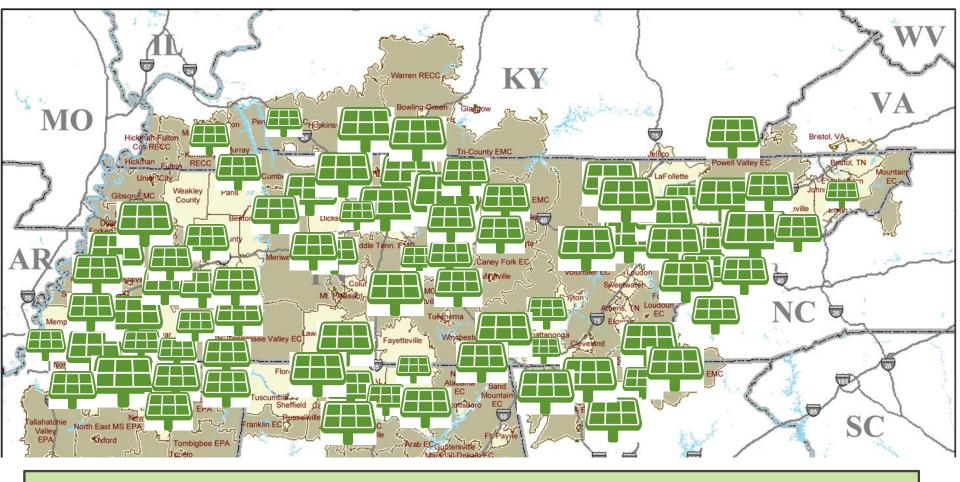
What is the Supply for GPS?



*Amounts represent a resource's generation capacity. Actual generation can vary.



Green Power Switch Drives Investment



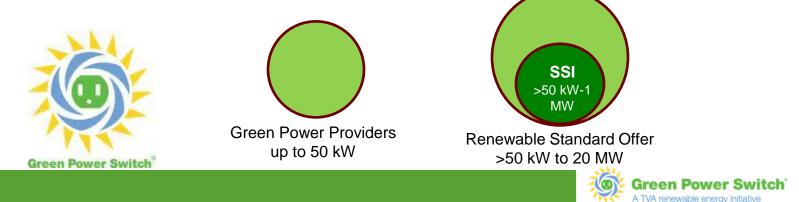
March 2012 – 864 solar installations!!!

*Location of installations on map is demonstrative only

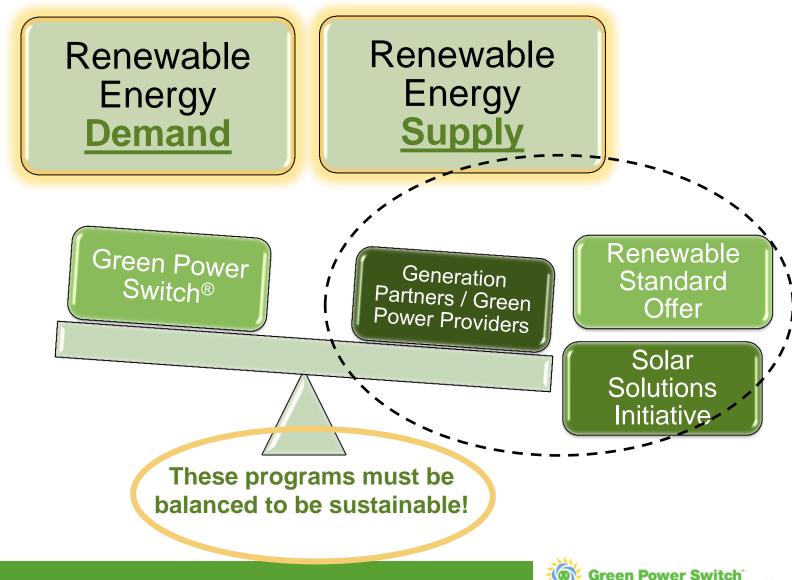


Renewable Program Direction

- <u>Goal:</u> Implement sustainable renewable energy programs consistent with the Integrated Resource Plan (IRP)
- Grow Green Power Switch
- Transition Generation Partners to Green Power Providers (small scale, customer-owned renewable distributed generation)
- Add Solar Solutions Initiative as an overlay to Renewable Standard Offer (larger utility scale projects)



TVA's Renewable Energy Programs



A TVA renewable energy initiative

Generation Partners → Green Power Providers

- + Maximum 50 kilowatts
- + Solar, wind, hydro, biomass
- + 20 year contract
 - (10 years at premium rate,
 - 10 years at retail rate)
- + \$1,000 incentive



+ Initial \$.12 / \$.03 premium will be evaluated annually

TVA's goal for Green Power Providers and Green Power Switch is to provide long-term stability and sustainability to small-scale renewable growth in the region.



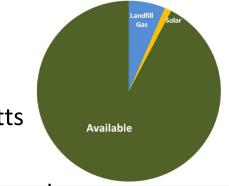
2 solar installations at 1.2 MW capacity, and an additional 28.2 – 35.6 MW of biomass in the pipeline

Projects must:

- Be located in the Tennessee Valley region
- Be greater than 50 kW and less than or equal to 20 megawatts
- Be focused on solar, wind, biomass gasification, and mature renewable technologies such as biomass direct combustion, methane recovery, and co-firing of 50% or more biomass
- Establish interconnection with a power distributor's or TVA's electric system
- Have gone online no earlier than Oct. 1, 2010.

RSO is not part of the GPS supply portfolio, but it will be considered for future GPS options.

**www.tva.com/renewablestandardoffer





Available now (February 2012 launch)

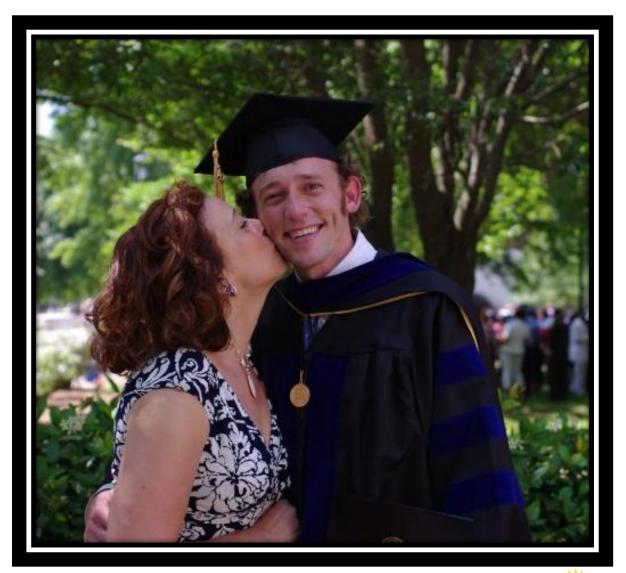
- Solar Solutions Initiative 2 year pilot
 - Economic development incentive overlay for Renewable Standard Offer solar projects in the Valley that use equipment manufactured and installed by companies in the Valley
 - Projects must be between 50 and 1,000 kilowatts
 - Limited to 10 megawatts per year







Earth Day 2011





Earth Day 2012



