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Generation and participation updates

Green Power Switch News is produced cooperatively by the Tennessee Valley Authority, distributors of TVA power, and the environmental community to provide information about the status and growth of Green Power Switch—a renewable energy option.

Green Power Switch News is available electronically, or in print form (on request) to Green Power Switch participants. For more information, visit the Green Power Switch Web site at greenpowerswitch.com or contact your local public power company.

For alternate formats of this document, call 865-632-6824 and allow five working days for processing.



Green Power SwitchSM

LIVE FROM BUFFALO MOUNTAIN —

Current Wind Conditions

April was a banner month for Green Power Switch at the Buffalo Mountain Wind Park. The wind turbines produced record power, the community conducted a major clean-up of the area, and the outreach program participants got involved in the Coalfield School Science Fair.

The wind turbines generated at 100% availability during April, producing 1,681,123 kilowatt-hours of electricity. The projected values for the less windy summer months are half as much but are expected to increase in the fall and winter. Upcoming changes at the site will include security upgrades and a video camera that will also be used as a Webcam.

Residents of the surrounding community held a major cleanup effort April 21 - 22. The Windrock Mountain ATV Club, the Coal Creek Mining & Manufacturing Company, and TVA also worked on the cleanup, and Green Power Switch provided t-shirts to participants. Keep Roane Beautiful Inc. recognized the hard work of the volunteers by



Coalfield School students enjoy learning about wind power technology.



Dr. Kathy Moore of AWS Scientific reviews sodar measurements on a computer monitor.

issuing certificates of appreciation.

TVA's Public Power Institute sponsored the April 27 science fair at Coalfield School near Oliver Springs, Tennessee. TVA set up solar kiosk software on three laptop computers for students to use as they toured the exhibit. The students learned about instruments designed to measure wind velocity and direction, and they enjoyed making paper windmills and learning about the Buffalo Mountain site.

The wind program continues to grow as wind monitoring takes place at four candidate sites. TVA is working with AWS Scientific and Ontario Power to test sodar equipment. Sodar, similar to radar, is used to measure wind velocity. A mini-sodar will be tested as a tool to monitor wind velocities at the lower elevations needed for a wind project. The next wind sites will be chosen based on all of the data collected.

In July, TVA released a request for proposals for a minimum of 20 megawatts of new wind generation to be built in the Tennessee Valley by 2003. Tentative plans call for the proposals to be submitted no later than August 31, 2001.



Shades of Fun: Duffield-Pattonsville Elementary School fifth graders keep it cool at the Green Power Switch ribbon cutting.

Solar Celebrations

TVA is planning for the dedication of new solar sites at Finley Stadium in Chattanooga, Tennessee, and at the Sci-Quest Science Museum in Huntsville, Alabama, this summer. Construction at Finley Stadium is scheduled to be completed by mid-July.

Oak Ridge Electric Department, the American Museum of Science and Energy, and two groups of visiting school children joined with TVA on April 18 to “flip the switch” on four new solar arrays installed at the museum in Oak Ridge.

Powell Valley Utilities and Duffield-Pattonsville Elementary School hosted a dedication for Green Power Switch’s seventh solar-powered generation facility on April 26. Science teachers and their students donned Green Power Switch sun shades as they watched the ribbon cutting.

Newport Utilities and Cocke County School System dedicated their solar contribution to Green Power Switch on May 23. The site overlooks the Cocke County High School soccer field, providing a unique shelter to soccer fans.

The most recent celebration took place June 9 in Bowling Green, Kentucky, with a dedication at Lover’s Lane Soccer Complex. Bowling Green Municipal Utilities and Warren County Rural Electric Cooperative teamed with Bowling Green Parks and Recreation, the City of Bowling Green, and the soccer complex to host the event for hundreds attending a soccer tournament.



(from left to right) Dr. Fred Valentine Jr., Donald Francis, James H. Burnett Jr., Skila Harris, Mayor Roland Dykes Jr., Larry Blazer, and Tom Rosberg attend the Cocke County High School solar dedication.

Landfill Gas Produces

duced power for the first time on May 9. Work at the site is focused on testing the generator, continuing efforts on the gas collection system, and preparing a second generator for operation.

The Middle Point landfill gas generation facility north of Murfreesboro, Tennessee, pro-

ENVIRONMENT

Kinko’s Green Power Switch—

A Documentation of Commitment to Cleaner Electricity

Kinko’s photocopy corporation is one of many businesses that joined the initiative to protect the environment by purchasing Green Power Switch. Twelve Kinko’s stores in the TVA region purchase Green Power Switch from their local utilities, specifically from Nashville Electric Service, Knoxville Utilities Board, and Bowling Green Municipal Utilities.

Perspectives *continued*

“By deciding to use renewable power, Kinko’s is demonstrating a commitment to reducing its environmental footprint,” said Kinko’s environmental manager Larry Rogero. “Our goal is to lessen the impact Kinko’s exerts on the environment, while simultaneously providing the products and services valued by our customers. Kinko’s environmental vision statement explicitly states that we will use energy-efficient technologies and renewable energy sources.”

“We are pleased that area Kinko’s stores are committing their financial resources to help the environment,” said Nashville Electric Service President and CEO Don Kohanski. “The Green Power Switch program offers a business the opportunity to promote renewable energy, and Kinko’s is displaying excellent environmental leadership by participating in this important program.”

Based in Ventura, California, Kinko’s currently operates more than 1,100 retail locations and employs more than 25,000 people in the United States, Canada, the Netherlands, Japan, South Korea, Australia, the United Arab Emirates, China, and Great Britain.

Generation update

Solar power sites	Generation April 1 - June 30
Cumberland Science Museum	11,437 kWh
Dollywood Tram C	3,481 kWh
Dollywood Tram D/E	4,437 kWh
Gibson County High School	3,497 kWh
Ijams Nature Center	6,723 kWh
Cocke County High School	3,663 kWh
Duffield-Pattonsville Elementary School	4,244 kWh
Sci-Quest/North Alabama Science Center	13,805 kWh
American Museum of Science & Energy	5,060 kWh
Lover’s Lane Soccer Complex	5,854 kWh
Finley Stadium	0 kWh
Total solar generation	62,201 kWh

Wind power site	Generation April 1 - June 30
Buffalo Mountain Wind Park	968,249 kWh

Landfill gas	Generation May 9 - June 30
Middle Point Landfill Gas Generation Facility	1,626,666 kWh

Participation update

Total number of green power blocks subscribed:	11,604
Number of green power blocks subscribed since April 1, 2001:	990
Number of residential customers subscribing:	3,936
Average number of green power blocks per residential customer:	1.7
Number of business customers subscribing:	175 business customers purchasing 5,015 blocks





*Comments?
Suggestions?
Let us hear
from you!*

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Thanks for your help and your interest!

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