

Plainsandean

From: Luis Contreras <doccontreras@gmail.com>
Sent: Friday, July 03, 2015 9:11 PM
To: Plainsandean
Subject: P&E part 2: Not green, not needed, not planned, irrelevant by 2016
Attachments: P&E is not green not needed and irrelevant by 2026.pdf

July 3, 2015

The P&E line is not green or needed, irrelevant by 2026, with no plan

Dear Secretary Moniz,

1. P&E says it would carry *green* power. TVA knows the wind blows when the wind blows at the right speed, an average of 10 hours per day. The P&E line would connect to the *grid* at Guymon, Oklahoma, with **SPS, @\$30MM & 36 months not included in the budget or schedule**, Appendix 10-A, allowing coal electrons on the line. Electrons travel close to the speed of light with no way to store them on the grid: they have to be used as soon as generated, when the wind blows. *P&E is a hybrid line with coal electrons on the line 60% of the time; not green!*

2. Claiming 4,000 MW of wind power would help AR, TN and other states meet EPA Clean Power Plan pollution standards is false: EPA does not give credit for power generated out of state, and P&E would deliver coal-electrons at least 60% of the time.

3. The TVA Interconnection System Impact Study, Appendix 10-C, says it would take 8 years to upgrade the TVA system to handle 3,500 MW of intermittent P&E power, and upgrades for utilities down the line.

4. TVA knows the interconnection issues wind power generation. Their local, 29 MW wind program using 169 kV AC lines, *Green Power Switch*, dates to 2000. *P&E is NOT in TVA's 2015 Integrated Resource Plan.*

Why would DOE choose to participate in a project without a plan?

Respectfully,

Dr. Luis Contreras

On their website, TVA confirms the prior statements with years of experience using local wind power using AC 169-kV transmission lines:

1. With my purchase, do I get green power at my home or meter?

No. The electrons do not flow directly from the renewable energy generator to your residence or business. Instead, the purchase of Green Power Switch ensures that electricity from renewable resources is *generated and added to the power grid*. Renewable energy generators are connected to the electric grid just as conventional electricity generators are. Once electricity from renewable sources enters the grid, it mixes with electricity from conventional resources. Because electrons from different kinds of resources look and act the same, it is impossible to know if the electricity you are using comes from green electricity sources or other electricity sources.

http://www.tva.com/greenpowerswitch/green_mainfaq.htm

2. What is the role of wind energy in Green Power Switch?

With the inauguration of TVA's expanded wind site in December 2004, wind energy became a major source of power supply for Green Power Switch. Fifteen new turbines were added to the TVA wind site on *Buffalo Mountain near Oak Ridge, Tennessee*. They are located near the three smaller turbines originally built in 2000. The site is on a two-mile ridgeline facing southwest, the predominant wind direction at the location. The newer turbines expanded the capacity of the Buffalo Mountain site to **29 megawatts** of generation.

Do wind turbines produce electricity all the time?

No, energy is generated when the wind speed reaches about 10 miles per hour, and a speed of 25 miles per hour allows the turbines to generate at their rated capacity. They shut down when the wind exceeds 55 miles per hour.

http://www.tva.com/greenpowerswitch/wind_faq.htm