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To: Statements
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Subject: 24 hour electric power graph

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Clerk's Office
N.C. Utilities Commission

E-100 SUB 137

As a retired engineer/scientist I am a life long environmentalist who believes that we must strengthen our nuclear power capability.

Comments for the NCUC.

5-28-2014

1. Environmentalists (and the public) are "locked" into solar/wind as the energy source of the future. They have correctly identified the cause of global warming but their solutions are irresponsible.

See comments by; Sierra Club , SACE, NC Warn, Greenpeace.

350.org (Bill McKibben) They have developed into a worldwide organization. He is planning a major event in NY on sept 24, they will have a crowd of thousands protesting fossil fuels.

NCWarn; (Jim Warren) They work daily to shut down Duke's fossil fuel plants and Solarize.

Greenpeace USA; (Annie Leonard) " Shut down coal-fired plants, divest from fossil fuels, invest in renewables. It doesn't matter so much what thing you do as long as we all do something".

A wealthy environment friend of mine lectures on the CO2 problem and then offers as a solution a "black swan" yet to be developed!

2. Power Magazine just published their Coal Plants Guidebook.

They review the upgrading status of 44 plants around the world.

At the same time they just released their Gas Plants Guidebook of power plants converting to NG. In the index they list 40 plants around the world that are/have converted to NG. The power rating of 20 of these plants adds up to 20,000 MW. Much more fracking will be required to meet demand.

Now with the world awash in NG, more old coal plants will switch to NG at less cost than upgrading.

Germany, having shut down their nuclear plants found that wind/solar are not doing the job. They now depend on Russian NG to keep the lights on. Will NC follow the German model? (see EPRI report)

Are the power companies walking us down a primrose path, only to find NG prices climbing and availability dwindling. Perhaps the question is; how long is the primrose path, 5 yrs - 20 yrs??

3. Harry Reid; No to Yucca Mtn. This is a major road block to a sensible solution to nuclear waste.

4. No Government commitment to nuclear because of public fear and a lack of understanding of the available options. Obama's Energy Secretary Ernest Moniz is pro-nuclear, has he addressed the issue?

5. Job one, should be to chart a path to a sustainable electric energy supply sans fossil fuels.

6. The Small Modular Reactor (SMR) conference in Charlotte on Mar 31/Apr 1. Many designs, what is the status/future?

7. My ACTION ITEM; Publish a 24 hr Electric Energy Graph for NC.

Base the graph on the CAL ISO model. (Ontario ?)

Arbitrarily pick a; mid June, mid week, 24 hour day

Compose the graph using; Coal, Nuclear, NG, Hydro, Solar, Wind, (biomass?)
Collecting hard data may be difficult, since there is no ISO or RTO grid data available?
OF COURSE, the purpose of the graph will be to highlight the "Renewables Program" and
specifically how wind and solar are reducing our carbon footprint.
Distribute the graph to environmental groups for comment.

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