

FILE

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Granville Ohio 43023

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Sir,

The Newark Advocate on 12/15/15 p 4A printed a story indicating the AEP agreed to develop 500MegWatts of wind energy and 400 MegWatts of solar energy. I am an AEP customer. I am concerned about the cost I will have to pay. Wind and solar are discontinuous and interruptable sources of electrical energy that require backup.

- 1) Cost. The Energy Information Administration web site indicates that the renewable electrical supplies are more expensive than the fossil fuel plants.
- 2) Uninterruptable supply. A fossil fuel plant can generate power over a range of the plant's capacity as the load demands. The energy supply figures for wind and solar do not mean anything. Energy from the sun will depend on the time of day and time of year. Wind energy is dependent on the velocity cubed. For example the energy drops by 87% when the wind drops from 20 mph to 10 mph.
- 3) Storage will be necessary. But for how long? Since 12/26/15 to 12/30/15 (5 days) we have had no sunshine. When the sun does come out, it will have to refuel the storage as well as supply current demand. This will impact the facility capacity. In addition, storage costs money. Cost must be balanced against the chance of exceeding storage capacity vs fossil fuel backup which is an added cost.
- 4) Why not continue with low cost natural gas which is lower in CO(2) than coal?

Thank you for your attention.


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