

**Lorena Hollett**

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**From:** Office of Commissioner Fay  
**Sent:** Wednesday, May 29, 2024 4:55 PM  
**To:** Commissioner Correspondence  
**Subject:** Docket No. 20240000

Please place the email below in Docket No. 20240000

Thanks

-----Original Message-----

From: Rachael Ignatoff <rachymom@comcast.net>  
Sent: Wednesday, May 29, 2024 3:37 PM  
To: Office of Commissioner Fay <Commissioner.Fay@psc.state.fl.us>  
Subject: In Rust We Trust

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Dear Chairman Fay,

I'm a mother who just wants a livable future for me and my generation.

Economists say that if the price of grid storage drops to \$20/kWh, fossil fuels will not be competitive with renewables. That is now on the verge of happening with a battery based on rust!

[https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fsingularityhub.com%2f2023%2f01%2f11%2fform-energys-new-factory-will-churn-out-iron-air-batteries-for-grid-scale-storage%2f&c=E,1,RHlut0YU3rzlcFplyJ1C13rbKZbHU5TLAvw7elg7LvtuRYN\\_-sYmWlfWgrvU9kgAoj8UpDCKIUopZqnlcjQ6PNTtK7O6BOLdl0JEtZjZxFKZ32o0lg,,&typo=1](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fsingularityhub.com%2f2023%2f01%2f11%2fform-energys-new-factory-will-churn-out-iron-air-batteries-for-grid-scale-storage%2f&c=E,1,RHlut0YU3rzlcFplyJ1C13rbKZbHU5TLAvw7elg7LvtuRYN_-sYmWlfWgrvU9kgAoj8UpDCKIUopZqnlcjQ6PNTtK7O6BOLdl0JEtZjZxFKZ32o0lg,,&typo=1)

Form Energy's iron-air battery offers low cost (\$20/kWh), long duration (100-150 hours), safety (non-flammable), and recyclability. All of these are key advantages over lithium-ion batteries for grid-scale energy storage. It can store energy for 100 hrs. However, it has lower efficiency (50% vs. 95%), slower charging, and larger size/weight than lithium batteries.

Although rust batteries are less efficient (50% vs. 95%), that doesn't matter in places like California and Texas, where there is a surplus of renewable energy. And as solar and wind get cheaper, there will be more and more states in this situation.

The upshot? New fossil fuel infrastructure is a bad investment - not just for ecologically, but financially. No new fossil fuel infrastructure, period!

Sincerely,

Rachael Ignatoff

Boca Raton, Florida

Sent from my iPhone