

Charlie Smith

From: Office of Commissioner Fay
Sent: Thursday, May 30, 2024 2:01 PM
To: Commissioner Correspondence
Subject: Docket No. 20240000

Please place the email below in Docket No. 20240000

Thanks

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

From: julie long <jl525174@gmail.com>
Sent: Thursday, May 30, 2024 9:22 AM
To: Office of Commissioner Fay <Commissioner.Fay@psc.state.fl.us>
Subject: In Rust We Trust

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Chairman Fay,

I'm a physician who is concerned about the adverse affects on people's physical and mental health from climate change and environment degradation

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,1,3R299zajGH_ch1GD-wXhg-EyJZpo7LwxbWO5a178ZmLsFarRWwlwh9f26_ZsB9UyLrS3xM3N92_5ufJ_dhc-hYE0gS0zDJFveQEexc_JGyUsQ,&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,

Julie Long

Plantation, Florida

Sent from my iPhone