

**Dunston, Shonta**

E-100 Sub 190

**Subject:** FW: In Rust We Trust

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**From:** Mary Ellen Lowry <meklowry@gmail.com>  
**Sent:** Friday, May 31, 2024 8:08 AM  
**To:** Mitchell, Charlotte <cmitchell@ncuc.gov>  
**Subject:** In Rust We Trust

Dear Commissioner Mitchell,

I'm an aunt who fears for my family in a warming world.

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://singularityhub.com/2023/01/11/form-energys-new-factory-will-churn-out-iron-air-batteries-for-grid-scale-storage/>

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,

Mary Ellen Lowry

Greensboro, North Carolina

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JUN 03 2024

Dunston, Shonta

E-100 Sub 190

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JUN 03 2024

**Subject:** FW: In Rust We Trust

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

From: Heather Ways <waysheather@gmail.com>

Sent: Friday, May 31, 2024 10:44 AM

To: Mitchell, Charlotte <cmitchell@ncuc.gov>

Subject: In Rust We Trust

Dear Commissioner Mitchell,

I'm a mother who fears for my family in a warming world.

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!

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

Sincerely,

Heather Ways

Cleveland Hts, Ohio

Sent from my iPhone

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