



MEMORANDUM

TO: IEDA Board
RE: Power Committee Report
DATE: August 6th, 2025

Abundance of Riches

In the pursuit to power new data centers, new plant development is costly and takes time. But what if you are the richest man in the world? Elon Musk just purchased an existing power plant overseas and plans to ship it to Memphis to help power his Colossus project.

Convertible

SRP is converting their Coronado plant from coal to natural gas. The 762 MW capacity plant in St. Johns will be converted to natural gas by 2029. The conversions reduces pollution from the plant but maintains the capacity in a growing energy hungry world.

Everything is Bigger in Texas

Texas plans to add 100+ more natural gas plants to their existing fleet of 162 plants, whose current fleet is already larger than all other states. The new capacity to be onboarded is estimated to be 58 GW.

Data Centers Going it Alone

In Texas and other states, data centers are choosing to build generation on-site as opposed to wait for connecting to the existing grid. In a world where time is money (and money doesn't seem to be an object), the Colossus project brought on natural gas turbines on sight and they were delivering power in 122 days. This

would normally have taken two years to complete. It is estimated that behind the meter capacity will reach 35 GW by 2030 (@ 10% of the 380 GW load growth forecast).

Feel or Fear the Burn

Fusion is growing in the number of articles that we are seeing, with a recent announcement out of China where they maintained reaction for 1,000 seconds (17 minutes) above 100°C. The reaction reached 186°C for 28 seconds. France was able to sustain a reaction for 22 minutes.

The first commercial fusion plant (Helion) has started construction in Washington State. They are using a patented pulsed, non-ignition fusion technology and target 50 MW

CO2 Compressed Air Storage

While we have heard a lot about storing CO2 in the ground, it seems that CO2 compressed air storage is increasingly being used in long-duration energy storage projects.