Ter•ra•ment

About Terrament

Terrament is a new energy startup solving our trillion-dollar energy storage crisis. We are currently unfunded and sponsored by Syllable Technology and Design.

Summary

View the Terrament summary deck.

Problem

Climate damage is a grave threat to our health, economy, and national security. We must redouble our efforts to replace fossil fuels with renewable energy.

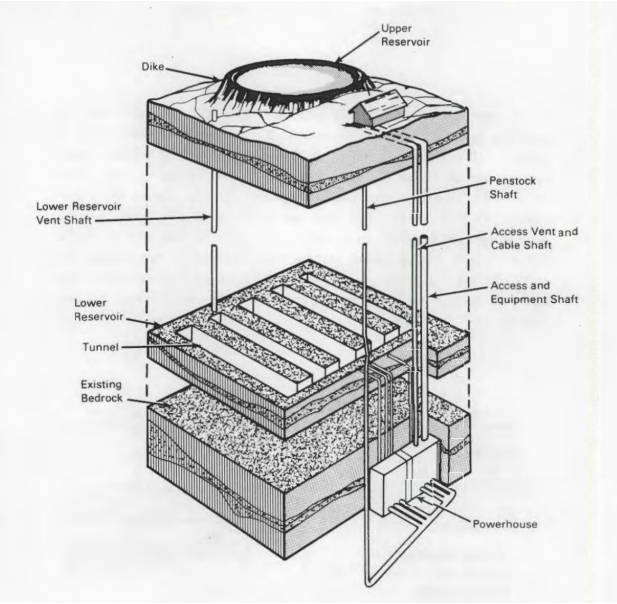
But there's a problem: Even if we had plenty of wind and solar energy, our power grid isn't built to handle weather-dependent variability. To fix this, we must invest *trillions of dollars* to build more energy storage capacity.

Solution

Terrament is building affordable, scalable energy storage using a technology called Underground Pumped Hydro Storage, or UPHS.

UPHS is a well-researched, low-risk technology. We estimate that our design will be 3-15 times cheaper than lithium ion storage over a lifetime of forty years.

Right: UPHS design from a U.S. Gov Report



Why Terrament?

Terrament provides a low-risk, affordable solution for scalable energy storage.

World governments have declared a state of climate emergency. And they have pledged to quit fossil fuels by 2050. But we are not yet on track to meet those promises. Research shows that if we don't expand our energy storage capacity, our solar and wind energy markets will stagnate.

Without energy storage, renewables will fail to reach even 25% of the energy market by 2040. This will cause global temperatures to rise over 3°C, a level which will cause catastrophic climate damage. We have to do better.

Links

Pitch deck: Our pitch deck summary is not intended for investors (yet). We made it to help us find a civil engineer co-founder. Interested? Contact us.

Feasibility study: Our feasibility report about Underground Pumped Storage. This report is open-source and may be updated in the future.

Key Research

UPHS Report (U.S. Department of Energy): A U.S. DOE report from 1984 which demonstrates that Underground Pumped Storage is feasible and cost effective.

Pumped Energy Storage Report (San Diego County Research): The San Diego County Water Authority demonstrates that pumped hydro storage is cheaper than lithium ion.

Contact us

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Thank you

Eric Chaves, Founder of Terrament