



PowerThreads



The Problem

Giant strides within civilization & technology boil down to one capability – **our ability to harness and deploy energy.**

By 2040, **the global energy expenditure is expected to be around 777 quintillion joules.** And, we are falling behind in fulfilling that amount due to the inefficiencies within the current energy generating system.

Our Solution

Our solution, **leverages mobility, relies on sustainability and restructures the world's energy expenditure to impact millions.**

Charge your devices in real-time by sliding them into your pocket. Our clothes harvest and store the thousands of watts you generate from your daily activity, so you never have to rely on an outlet again.

The Process

1

Energy Harvesting

Our piezoelectric textile harvests electrical energy through mechanical movement. With a core-sheath electrode structure and PVDF material, our textile, which works even better in water, harvests the world's most valuable resource as you move.

2

Energy Storage

Through a one-step laser printing process, we seamlessly integrate graphene super capacitors right into our textile, storing all of the energy that you generate within seconds, and maintaining its full capacity for millions of charges.

3

Energy Transfer

Power all of your small-sized electronics from your pocket. With our intricate placement of voltage regulators, converters and control circuitry, our textiles provide USB ports to charge your phone in real-time, enabling a completely self-sustaining system.

Our Mission

A world where we don't rely on our depleting resources and inefficient charging systems, but in an **alternative that puts the environment first, and uses valuable resources correctly, including the thousands of watts of energy you generate everyday.**