

## Gravitational Systems Engineering : GSE

### Dense Environmental Energy : Overview

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GSE is a mature startup with a unique social mission. Our mission is to provide large organizations with effective methods for generating dense energy from the natural environment. Point local environmental energy, i.e. solar or small wind, lacks sufficient density for 70% of industrial and municipal applications. To find sufficiently dense environmental energy we have gone far beyond the traditional views of the natural environment to find dense harvestable energy sources. Humans and industry now are a part of the natural environment.

Let me tell you Albert's energy story. For centuries we've dug up ancient energy from sunlight and gravity from the distant recesses of the earth [fossil fuels], and we convert today's sunlight and gravity into agricultural products [food & materials]. We then gather these disparate energy sources of food, fuel and materials into concentrated areas, [cities], and convert them into destructive heat, inertia, vibration, pollution and decay. Yet, Albert [Einstein] showed us that energy is conserved, i.e. never destroyed, it is only converted into either a sensible or latent form [ $E=MC^2$ ] Sensible energy includes heat, noise, and vibration, things that we can sense. Latent energy includes pollution, and waste products, which account for greenhouse gases and methane from landfills.

These converted energies can, and ultimately must, be harvested and recycled. GSE is the proof that they can be recycled. We've perfected multiple methods of converting the sensible energy of the movement of vehicles, and the operation of industrial equipment into point local energy supplies as dense as electricity from the grid. These energy supplies can replace grid access, and are competitive with lighter fuels.

Our devices can convert the billions of watts of waste energy from traffic flows, which destroy bridges and roadways, into grid independent outdoor lighting, municipal water pressure, or environmental mediation. Grid independence is productivity, resilience, and long term stability in our increasingly energy dependent, yet hostile to power generation, world.

This destructive waste energy ultimately must be harvested, because waste energy is a giant looming threat to our survival. Malthus was wrong, food supply and population growth won't doom us, but profligate energy waste will gradually turn blue Earth into another red Mars! Climate change, regional drought, creeping desertification, dangerous storms, and un-predictable wildfires are the legacy of the non-evolutionary modification of the planets hydrology. Heat islands, mono-cultured plains, and man-made atmospheric rivers are corrupting hydrological systems which evolved over eons. , Yet we won't have to wait eons to realize that profligate waste energy is a growing challenge for the economic and

political stability of human society. The Arab spring was largely due to high wheat prices due to a drought in China which tipped market prices.

We have the knowledge to radically increase the value of traditional energy sources through point local recycling. GSE technologies fill the unexploited energy niche that bottle and can recycling has supplied for the bottling industry. One day in the not to distant future vast stretches of the highway will be lit by the traffic as it flows, power plants will be cooled by water from distant seas, and agriculture will never want for rain.

Our climb is steep and long, but the profits are vast and potentially invaluable. We are seeking financial partners who have the expertise and resources to capture a section of this inevitably vast market. We have millions of dollars of both venture and state funding interested and available, we are only lacking you. We need a lead investor with a taste for making real history.