

THE Super Power magic Motion MACHINE

Chapter 1

The *Super Power Magic Motion Machine (SPM3)* is a pedal-powered mobile art installation to raise awareness about energy consumption and human innovation: a custom-made bicycle with a trailer attachment that will carry the components to convert human power into electricity, initiating a public discourse about energy generation, consumption, and community empowerment.

The machine's initial launch will be a temporary art and performance piece in Lancaster, PA that will highlight the integral relationship between human creativity and the generation of a sustainable energy source. In order for the machine and performance to function, participants must collectively produce both the power (by riding the bicycle) and the ideas (collected during the performance) that will run the installation.

The launch will (1) serve to introduce *SPM3* and its possibilities to the public, (2) generate conversation on energy use and new technologies, (3) identify key partners and collaborators for future *SPM3* applications and other actions forwarding the local climate change and sustainability movement, and (4) stimulate the construction of local, creative solutions to global environmental issues.



Chapter 2

Following its debut in the fall of 2011, the *Super Power Magic Motion Machine* will travel to a series of locations throughout the city, powering various machines, events and ideas. Working with local partners; environmental and educational non-profits, community organizations and public schools; we will develop effective methods of using the *SPM3* to supplement existing programs and curricula. With each location and appearance, participants will power the machine by

pedaling, and facilitators will lead a discussion about energy generation, climate change, and creative technological innovations. What is energy? Where does it come from? It takes how much energy to power a small blender? What else could I power by pedaling? How many emissions could we reduce in our community if we powered all small appliances by pedal power? How much energy could four people generate? How much could ten people generate? Could I make one of these machines myself and use it at home? Where in the world are people using this stuff? What other cool ways are there to generate electricity? How can I learn more? This can be fun!?

Chapter 3

The *Super Power Magic Motion Machine* represents a first step toward community-built, community-powered and community-run art, science and sustainability projects in Lancaster, PA, and beyond. We hope that this project will lead to other artistic collaborations to creatively address energy use and climate change, specifically geared towards lower and middle-school aged students. Drawing on inspiration from author and philanthropist David Egger's "Once Upon a School Project," and his call to find creative ways of supporting our local public schools, our long-term goal is to establish and run a tutoring workshop and gallery in Lancaster city. Focusing on art and science based projects, we hope to aid public schools in developing hands-on projects to foster innovation for environmental and social problem solving.