



The Policy Studies Organization

DUPONT SUMMIT 2012

..... Pressing Issues Amid the Political Maelstrom

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Panel Speakers

John E. Waters, PhD, Senior Fellow, *Sagamore Institute*

Topic

"Light Village – a Fully Sustainable Energy, Housing and Mobility Design for Off-grid Communities"

Light Village is a fully integrated concept that provides sustainable energy, housing, transportation, waste, and water. Light Village elements and production can also provide economic development and impact local education with principles in biomimicry. Light Village is a single-family housing community that has been designed from a clean sheet of paper to be completely energy independent and free from fossil-fuel based infrastructures. The homes and modes of transportation derive their power from safe, reliable, and long-lasting electrons stored in lithium-ion battery technology. Each home will have capability to provide its own power for appliances, lights, pumps, and also propulsion power for farming and transportation vehicles. In addition, clean water filtering, natural waste and gardening systems provide sustainability for family living.



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Electron Harvesting

Electrons are light, efficient, and sustainable forms of energy. Electrons can be harvested from sunlight, wind, water streams, and even by converting waste. In Light Village electrons are stored in highly efficient lithium ion batteries and conveniently used to power external devices (i.e., "apps"). Individual citizens can daily perform this clean energy exchange moving battery modules weighing less than 40 lbs (18 kg).

No Grid Required

For over 100 years energy supply and demand have required large, expensive, and limited fossil-fuel infrastructures. Light Village revolutionizes this obsolete energy paradigm with natural or nature-based systems. The amount of sunlight that hits the Earth's surface in one hour provides enough energy to power the entire world for a year. Harnessing sunlight, wind, waterpower and storing it for living and transport devices increases efficiency by greater than 300% over combustion technologies with no harmful emissions.