Energy Entrepreneurship and Innovation: Global Impact

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Personal story...

• A “Start-Up” Career
  • Films
  • Music

• Software

• .... Sustainability
Starting a business - the Big Idea...

- Is there a need for the product or service?
- Research!
- Test it on friends
- Know your strengths - and weaknesses
- Build a cohesive team
- Launch!
Challenges....

- Capital - more is better
- The evil word - “dilution”
- Market and evangelize as soon as possible
  - Don’t get to the final product without interest
- Get used to the word “NO”
WindStream Story - My next IDEA

- 2008 - WindStream Technologies is launched to create low-cost, hybrid renewable energy solutions for urban, suburban, and on and off-grid environments.

- 2009 - R&D begins at The Purdue Research Center in New Albany, Indiana with an Academic Alliance with Purdue University.
Who knew???

- On-site or point-of-use generation only cost effective solution
- 2 markets -
  - Where energy is scarce
  - Where energy is expensive
- Be Flexible!
Global Impact

- Global need for energy in rural, and remote areas
- Current generation cannot keep up with demand in emerging economies
- Push for renewable energy projects in developing world
- Rural electrification projects
WindStream’s products are designed and manufactured in the USA with shipments leaving our North Vernon, Indiana facility weekly.
The SolarMill®

- Simple
  - Plug and Play Design, low PM

- Scalable
  - Power generation defined by need

- Durable
  - Designed for the harshest environments all over the globe

- Flexible
  - Retrofits with P.V., P.V. Thermal, and Mounting Extensions, and Color
The SolarMill®

- Hybrid wind and solar energy system
- 24-hour power production
- Maximizes power output per square foot
- Scalable power generation
- Mechanical braking system
- Appropriate for on or off-grid applications
- Minimizes backup battery storage requirements
- 576 kWh/Year
Worldwide Installations
Jamaica
Peru
Questions?