

LOW-COST, HIGH-PERFORMANCE HTS WIRE ROCKET RENEWABLES, INC. IEA EXCO MEETING HEIDELBERG, GERMANY

May 10, 2012 Chris Gronet | Brian Moeckly



Rocket Renewables





Company Timeline





Business Model

Ramp pilot line

- Produce enough supply of wire, enabling customers to qualify products
 - Initial target applications: FCLs, cables, and transformers
- Pilot line will be automated and have the necessary factory control systems to allow rapid replication

License technology

- Enable partners with rapid expansion of high volume manufacturing
- Provide equipment and training to help ramp partners' wire production lines



Founding Team

Chris Gronet, President and CEO

- Ph.D. Semiconductor Processing, Stanford, 1988
- Founder, CEO G-Squared: RTP equipment, acquired by Applied Materials, ramped to \$1B
- Founder, CEO Solyndra: ramped solar technology from an idea to high volume mfg in 4 years

Brian Moeckly, CTO

- Ph.D. Physics, Cornell, 1994
- 17 years experience (Conductus, STI): superconductor film growth, properties, and applications

Bob Haggerty, CFO and VP of Business Operations

- 20 years in finance and ops including Applied Materials, Sun Microsystems, and Intel
- Managed finance and operations in 26 countries, established new operations in China

Dan Marohl, VP of Engineering

- 23 years experience designing thin film systems; over 25 patents
- Solyndra: designed the world's first reliable, high volume, thermal evaporation system



Target Applications



Key assumptions: 30,000 substations worldwide, \$50/kA·m price of wire

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Rocket Wire



 Produce the world's lowest cost, highest performance HTS wire

Rocket Wire Features:

- 2 km lengths
- \$50/kA·m fully ramped
- $I_c > 500 \text{ A/cm-width}$
- High I_c in magnetic field



Benefits:

 Enables applications for energy generation, transmission, storage, and grid stability improvement



Rocket Wire





Process Flow



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Pilot Line Output





Current Status

Pilot line model and financial model complete

- COGS details
- Stress and scenario testing

Seeking partners

• manufacturers of utility components

Detailing design of pilot line equipment

Fabricating test modules for key equipment

Fundraising

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