

Boreal Renewable Energy Development



Tom Michelman
2nd Massachusetts Green
Career Conference
Oct 1, 2010 – Marlborough, MA



About Boreal

- Experienced from site survey and feasibility studies through permitting, design, construction, and REC sales
- Specialists in large-scale renewable, institutional projects from 100 kW – 10 MW
- Federal GSA certified
- City/State/Federal/Overseas experience
- Feasibility/Design/Build/Manage/for:
 - Wind
 - Solar PV
 - Solar Thermal



Inspirations / Challenges

- Desire to bring renewable energy installations to niche market of commercial, industrial, institutional clients
- Founded in 2003:
 - Wind power is exotic, solar PV very expensive, uninformed marketplace
 - Low electricity prices
 - Start firm from scratch
- 2010:
 - Economy is weak, competition in market segment, need for diversification and growth
 - Low electricity prices
 - Normal growing pains

In renewable energy projects, what you DON'T see matters!

The foundation for a wind turbine can use more than 30 tons of concrete



A 40-m tall meteorological tower



Forbes Park Lofts

Chelsea, MA – 600 kW



Rooftop PV Installation – Mirak Properties: Arlington, MA



Museum of Science: Boston



Identity
an exhibition of you



MUSEUM
OF
SCIENCE



Growth Plans

- Diversify regionally
 - More emphasis outside of Massachusetts and New England
- Diversify market segment
 - More emphasis on federal government
- Diversify technology
 - More emphasis on solar