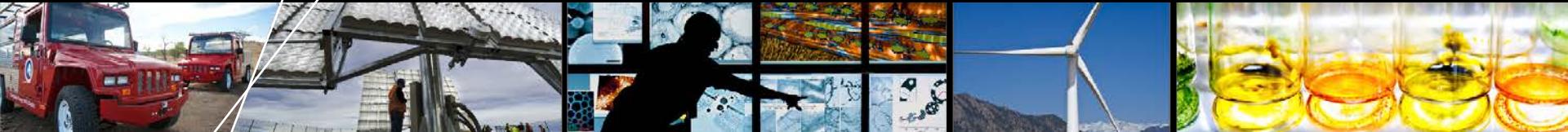


# Using Solar Business Models to Expand the Distributed Wind Market



**Wind Powering America  
All-States Summit**

**Stephanie Savage**

**May 9, 2013**

**NREL/PR-7A40-58634**

# Solar PV in 2012

Figure 2.1 U.S. PV Installations and Global Market Share, 2000-2012



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# **Business Models Supporting Rapid Growth in the Solar Industry**

- **Third-party power purchase agreements**
- **Residential leases**
- **Partnership flips**
- **Complex financial engineering**
  - Sale-leaseback transactions
  - Inverted leases
- **Crowd-funding/community projects**

# Market Characteristics - Solar v. Wind

Solar	Wind
Modules approaching commodity status	Small-scale manufacturing
Well-established testing requirements	Equipment certification relatively new
Many equipment manufacturers and suppliers	Fewer equipment manufacturers and suppliers
Resource uncertainty is low	Resource assessment & micrositing for distributed projects can be challenging
Distributed PV is more socially accepted	Wind turbines are often controversial
Decreasing equipment costs	Increasing equipment costs?
Projects are easily replicated	Each project is relatively unique
Permitting is generally straightforward	Permitting can be challenging and variable
Low maintenance costs & requirements	Maintenance is critical to a successful project
<b>= Less risk</b>	<b>= More risk</b>

# Recommendations

- **Implement low-cost policies**
  - Expanded net metering & simplified interconnection
  - Small wind ordinances
  - Simplified environmental permitting
- **Support consumer education**
  - Small Wind Certification Council
  - Sharing owners' experiences
- **Encourage appropriate wind**
- **Consider feed-in tariffs**
  - Production-based, not cost-based incentives

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