The Interstate Turbine Advisory Council: Small and Medium Wind Best Practices

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Photo by Kathryn Draeger
• CESA is a national NGO working with state and municipal clean energy funds in collaboration with federal, regional, industry, and other stakeholders to promote renewable energy:
  ➢ Technical assistance
  ➢ Analysis and studies to accelerate RE deployment
  ➢ Strategies and policies to address financing, innovation, and industry development
• To that end, CESA launched the Interstate Turbine Advisory Council (ITAC) in 2011 to promote the development of the small and medium wind market. The first step was to create a list of turbines that meet the performance, reliability, acoustic, and warranty service expectations of incentive providers.
Mission:
Establish a cooperative group of clean energy incentive programs to evaluate and identify small and medium wind turbines that meet performance and durability criteria
Pool resources to review turbines
Create a list of turbines for member programs to use

Participating Programs:
NYSERSA, ETO, NV Energy, MassCEC, MN Dept. of Commerce, NJ BPU, AK Energy Authority, PG&E (CA)
Why ITAC? The Background:

- Efficient pooling of resources
- Collective expertise
- Unified list for market growth
- Consistent requirements to influence the market
- Address medium wind turbine gap
**Small Wind**
1. Certification to AWEA 9.1-2009 or CTC accepted for temporary period
2. 5-year warranty
3. Truthful advertising
4. Dealer/installer training in N. America
5. “soft” business practices, including customer service, response to failures and technical problems, etc.

**Medium Wind**
1. Third-party test reports for IEC61400-12-1 and IEC61400-11
2. Design evaluation OR extensive operational history, including 500,000 hours fleet operation, 25 operating turbines, 2 years operation from 5 turbines
3. 2-year parts warranty
4. Same business practices as above
Why We Go Beyond Certification

Protecting tax-payer and rate-payer funds is a priority

- Warranty service record
- Review company’s operational history
- Consumer and dealer references
- Accurate performance data in marketing materials
- Quality and duration of warranty: bundled vs. unbundled
Small Wind Turbines:
1. Bergey Excel 6
2. Bergey Excel 10
3. Endurance S343
4. Evance R9000
5. WTIC Jacobs 31-20
6. Osiris 10
7. Eveready Kestrel e400nb

Medium Wind Turbines:
1. Endurance E-3120, 3-phase and single phase
2. Northern Power NP100-21
3. Vergnet GEV MP
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