SE Wind Energy Regional Resource Center (RRC)

FESC is one of the partners of the SE RRC.

SE RRC funded by US DOE Grant: $750,000 (including cost share) for 3 years

Outline

- US DOE Funded RRC’s
- SE RRC and Partners
- FL Wind Energy Resources
- Deliverables
Wind Energy Regional Resource Centers

US DOE Established Six Wind Energy Regional Resource Centers Across The U.S.

Goal: To expand wind energy in these regions

These centers will aim to:

- Provide fact-based, unbiased, relevant information about challenges facing wind energy deployment
- Work with decision-makers to ensure they have the tools to make informed decisions about wind energy projects and related policies in their jurisdictions
TN Wind Farm: 29 MW, built by Vestas. Has 18 turbines.
# Installed Wind Power in the World

<table>
<thead>
<tr>
<th>Year</th>
<th>Installed MW</th>
<th>Increase %</th>
<th>Cumulative MW</th>
<th>Increase %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>28,190</td>
<td></td>
<td>122,158</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>38,103</td>
<td>35%</td>
<td>160,084</td>
<td>31%</td>
</tr>
<tr>
<td>2010</td>
<td>39,404</td>
<td>3%</td>
<td>199,520</td>
<td>25%</td>
</tr>
<tr>
<td>2011</td>
<td>41,712</td>
<td>6%</td>
<td>241,029</td>
<td>21%</td>
</tr>
<tr>
<td>2012</td>
<td>44,951</td>
<td>8%</td>
<td>285,761</td>
<td>19%</td>
</tr>
<tr>
<td>2013</td>
<td>36,134</td>
<td>-20%</td>
<td>321,559</td>
<td>13%</td>
</tr>
</tbody>
</table>

**Average growth - 5 years**: 5.1%

(Source: Navigant Research)
SE Regional Resource Center

SE RRC Led by: Southeastern Coastal Wind Coalition
Located in Raleigh NC
SE RRC includes 11 States

[Map showing 11 states including FL, LA, AR, NC, SC, KY, TN, VA, AL, GA, MS]
SE RRC Partners / Organization

Lead: SE Coastal Wind Coalition (SECWC)
SE RRC Technical Approach and Work Plan

Overview of Southeast RRC Technical Approach & Work Plan

Stakeholder Outreach & Information Dissemination

Inputs
- RRC “Directed Projects”
- Supply Chain Asset Mapping & Analysis
- Existing DOE/NREL tools & resources

Activities
- Utility Advisory Group
- Specific State-Level Priorities
- Economic Development Advisory Group
- State Energy Office Outreach

Outputs
- Conferences & Workshops
  Serve as venues for convening stakeholders, strengthening the Affiliate network, and sharing “outputs”

Conclusions:
- Broad Outreach Activities
- Targeted Outreach Activities
  - RRC Affiliates & Advisory Group
  - Leveraging Wind Working Groups
Desired wind speed is 6.5 m/s or greater at 80m height.

Utility-scale, land-based wind turbines are typically installed between 80 and 100 m high.
FL Wind Energy Industry

- **Siemens**: Top 10 off-shore wind turbine supplier (58.4% market share). Siemens opened *Wind Service Training Center* in Sep 2013 (Orlando, FL) to provide advanced technical and safety training for wind energy projects located throughout the Americas region.

- **GE** has a wind turbine assembly facility in Pensacola

- **NextEra Energy Resources LLC**: Largest owner of wind power capacity in the United States
FESC Deliverables

FL Lead for SE RRC: FESC office and Dr. David Prevatt, Professor of Civil and Coastal Eng., UF

The team will focus its efforts on:

- Provide fact-based FL wind information to local and state decision makers
- Engage with stakeholders and military bases to provide fact-based information on wind energy
- Collaborate with RRC network members and connect our key stakeholders to the network