

## Digest of Green Reports and Studies

<b>Title</b>	<b><i>Environmental Scan -- Wind Turbine Technicians in California</i></b>
<b>Author</b>	None Given
<b>Organization</b>	Centers of Excellence -- Economic and Workforce Development Program – California Community Colleges
<b>Author Contact</b>	None Given
<b>Publication Type</b>	Report – Results from Case Study
<b>Publication Date</b>	September 2009
<b># of Pages</b>	77 pp
<b>URL</b>	<a href="http://www.coecc.net/Environmental_Scans/wind_scan_sw_09.pdf">http://www.coecc.net/Environmental_Scans/wind_scan_sw_09.pdf</a>
<b>Summary</b>	<p>The Centers of Excellence began their study on the demand for wind turbine technicians after being charged with “identifying industries and occupations that have unmet employee development needs” by the California Community Colleges Economic and Workforce Development Program. This report was published in September 2009 and its intent is to “provide community colleges with available data and insight into the short-and long-term occupational outlook for the wind industry.” The use of wind power is becoming more popular, and the technology behind wind power is becoming more complex. These two conditions create a need for more professionals that are trained in the field of wind power technology.</p> <p>Additionally, the Federal government is promoting wind power through the U.S. Department of Energy, which “has set a national goal for 20% of the nation’s electricity to be wind produced by 2030.” Certain areas in California are ideal for wind power generation; however, much of the work on the wind turbines that do exist in California is outsourced to other states. Employers in the wind industry agree that there is a need for highly trained professionals in this industry in California. California Community Colleges should consider the following three conditions before starting a wind turbine program :</p> <ol style="list-style-type: none"> <li>1) The proximity of wind farms to the campus</li> <li>2) Whether there is an existing program that relates to training wind technicians</li> <li>3) Whether there is a demand in the area</li> </ol>
<b>Key Findings</b>	<ul style="list-style-type: none"> <li>• “California’s future wind industry may require anywhere between 265 and 832 technicians in total.”</li> <li>• Of the community colleges located within 20 miles of a wind farm, Diablo Valley College, Las Positas College, and Los Medanos College, all have programs that may be able to be used as a base for a wind turbine program.</li> <li>• The community colleges that are within 20 miles of wind resources are; College of the Desert, Diablo Valley College, Gavilan College, Las Positas College, Los Medanos College, Mt. San Jacinto College, Ohlone College, Solano Community College.</li> </ul>
<b>Recommendations</b>	<p>California Community Colleges should consider the following three criteria when determining whether to start a wind training program or not:</p> <ol style="list-style-type: none"> <li>1) The proximity of the wind farm to the community college</li> <li>2) The need for wind power workers in their region</li> <li>3) If a similar program exists at their college, and if it can be easily altered to become a wind technician training program.</li> </ol>
<b>Definition of “Green”</b>	None Given
<b>Methodology</b>	Literature research, analysis
<b>Data Sources Cited</b>	California Wind Energy Association, U.S. Department of Energy, U.S. Department of the Interior
<b>Report Geography</b>	California
<b>Green Occupations Cited</b>	<ul style="list-style-type: none"> <li>• Manufacturing <ol style="list-style-type: none"> <li>1) Turbine production assemblers</li> <li>2) Tower production assemblers</li> <li>3) Gearbox and component parts assemblers</li> </ol> </li> <li>• Construction <ol style="list-style-type: none"> <li>1) Site prospectors</li> <li>2) Construction laborers</li> <li>3) Construction Supervisors</li> </ol> </li> <li>• Operations and Maintenance <ol style="list-style-type: none"> <li>1) Wind turbine technicians</li> <li>2) Wind turbine engineering technicians</li> <li>3) Wind farm operations manager</li> </ol> </li> <li>• Utilities <ol style="list-style-type: none"> <li>1) Electricians</li> </ol> </li> </ul>

	<ul style="list-style-type: none"> <li>• Finance and Development             <ol style="list-style-type: none"> <li>1) Wind farm Developers</li> <li>2) Project managers</li> <li>3) Financers/accountants</li> </ol> </li> </ul>
<b>Green Industries Cited</b>	<ul style="list-style-type: none"> <li>• Wind energy industry, sub sectors include:             <ol style="list-style-type: none"> <li>1) Manufacturing</li> <li>2) Construction</li> <li>3) Operations and Maintenance</li> <li>4) Utilities</li> <li>5) Finance and Development</li> </ol> </li> </ul>
<b>Keywords</b>	Wind power; wind technician; wind energy; California; community colleges; training; alternative power.
<b>Legislation Cited</b>	California Global Warming Solutions Act of 2006, California Executive Order S-14-08
<b>Bibliography (Y/N)</b>	Y
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