

## Digest of Green Reports and Studies

<b>Title</b>	Defining Energy Technologies and Services
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<b>Organization</b>	Advanced Technology Environmental and Energy Center (ATEEC)
<b>Author Contact</b>	<a href="http://www.ateec.org">www.ateec.org</a>
<b>Publication Type</b>	Report – National Forum Dec. 12-13, 2007
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<b>URL</b>	<a href="http://www.ateec.org/store/catalog/Defining-Energy-Technologies-and-Services-report-164.html">http://www.ateec.org/store/catalog/Defining-Energy-Technologies-and-Services-report-164.html</a>
<b>Summary</b>	In December 2007 the Advanced Technology Environmental and Energy Center (ATEEC) conducted a forum for defining energy technology. The goal was to validate and update occupational information from a 2000 report from the Partnership for Environmental Technology Education (PETE) titled <i>Energy Services Careers</i> . The participants selected included business, industry, and government agency representatives and two- and four-year college environmental technology educators. The objectives included validating, revising, and/or updating the following: title and definition of the field of energy technology; definition of technician; energy technology occupational categories; technician-level occupational titles; and job functions typically performed in each occupational category. The report should contribute to address the workforce development needs of business, industry, and government by providing educators with information needed to develop relevant curriculum that prepares students for energy technology careers.
<b>Key Findings</b>	N/A
<b>Recommendations</b>	N/A
<b>Definition of “Green”</b>	N/A
<b>Methodology</b>	Forum, Workshops
<b>Data Sources Cited</b>	N/A
<b>Report Geography</b>	N/A
<b>Green Occupations Cited</b>	<ul style="list-style-type: none"> <li>• Alternative financing specialist (government incentives)</li> <li>• Billing analyst/rate analyst</li> <li>• Carbon trading analyst</li> <li>• Customer service representative/account executive</li> <li>• Energy broker/trader</li> <li>• Energy contracting specialist (state &amp; federal)</li> <li>• Purchasing agent (utility &amp; private)</li> <li>• Salesperson</li> <li>• Sales representative (utility &amp; private)</li> <li>• Energy analyst</li> <li>• Energy auditor</li> <li>• Energy portfolio planner</li> <li>• Industrial process specialist</li> <li>• Measurement &amp; verification tech</li> <li>• Renewable energy site assessment tech including: Geothermal site assessment specialist; hydropower site assessment specialist; ocean energy site assessment specialist; solar resource site assessment specialist; windfield site assessment specialist</li> <li>• Architecture tech</li> <li>• Commissioning tech, including: verify systems operation &amp; interoperations; measurement &amp; verification</li> <li>• Energy efficient construction tradesperson/site foreman</li> <li>• Energy project developer/manager, including: scheduler; engineering technician; CAD/CAM tech/draftsperson; GIS tech</li> <li>• Renewable energy systems installer</li> </ul>

- Site and building exterior manager, including: Xeri-scaping; shading
- Testing, adjusting, balancing (TAB) tech
- Testing/commission tech
- Crop yield/biomass analyst (agriculture, aquaculture, & silviculture)
- Geology tech
- Geospatial tech
- Oil & gas exploration tech
- Solar resource assessor
- Uranium prospector
- Wind resource assessor
- Biofuels processing tech
- Boiler tech
- Carbon sequestration tech
- Coal gasification tech
- Coal miner
- Cogeneration tech
- Combustion tech
- Energy crop farmers
- Energy specialist
- Fuel cell tech
- Generator tech
- Geothermal tech
- Green power tech
- Hydropower tech
- Infrastructure/constructin tech (installation)
- Instrument/control tech & process operator
- Nuclear fuel enrichment & reprocessing tech
- Nuclear reactor tech
- Ocean power tech
- Oil & gas field tech
- Oil & shale & tar sand processing tech
- Oil refinery/process tech
- Solar photovoltaic tech
- Solar thermal tech
- Utility-scale renewable energy installation tech
- Waste-to-energy tech
- Wind turbine tech
- Building control operator
- Building control systems tech
- Building operator
- Building systems automation tech
- Direct Digital Control (DDC) programmer
- Energy cost analyst
- Energy manager/specialist/consultant
- Industrial process equipment maintenance & operations specialist
- Lighting specialist
- Maintenance tech
- Performance monitoring/continuous commission tech
- Program/project coordinator
- Renewable energy maintenance tech
- Resource conservation efficiency manager
- Sustainability coordinator
- Waste management/recycling tech
- Code inspector (municipal, county, & state)
- Compliance specialist (municipal, county, state & federal)
- Energy regulation specialist
- Energy technology program specialist (state & federal)
- Fuel testing/verification tech
- Incentive auditing (verification)
- Legislative aide
- Permit specialist
- Plan reviewer/checker

	<ul style="list-style-type: none"> <li>• Surveyor/site assessor</li> <li>• Electrical energy storage/distribution tech</li> <li>• Emergency response</li> <li>• Environmental safety &amp; health</li> <li>• Equipment operator/controls operator</li> <li>• Fuel storage tech</li> <li>• Infrastructure/construction tech</li> <li>• Outage reporting</li> <li>• Utilities tech</li> <li>• Alternative Fuel Vehicle (AFV) repair/maintenance tech</li> <li>• Emission testing &amp; repair tech</li> <li>• Fleet manager</li> <li>• Transportation, warehousing, &amp; logistics tech (geospatial, planning, public transportation, multimodal transportation, expediting)</li> </ul>
<b>Green Industries Cited</b>	N/A
<b>Keywords</b>	Energy, occupations, careers, technician
<b>Legislation Cited</b>	N/A
<b>Bibliography (Y/N)</b>	N
<b>Reviewer Name/Org</b>	Parker, State of Tennessee, Department of Labor and Workforce Development, Research and Statistics Section

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