



## Energy Assessment Training Course Agenda

March 8-12, 2010 • Golden, Colorado • SERF Building

8:00 AM – 12:00 PM Training & Instruction	12:00 PM – 1:00 PM	1:00 PM – 5:00 PM Assessments & Calculations
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<p><b>Day 1</b> Monday 3/08/10</p>	<ul style="list-style-type: none"> <li>▪ <b>Introduction</b> <ul style="list-style-type: none"> <li>✓ Purpose of the training, Overview of the week (30 min)</li> <li>✓ Energy Awareness (15 min)</li> <li>✓ Energy Usage Data (20 min)</li> <li>✓ Break (10 min)</li> <li>✓ Safety (20 min)</li> <li>✓ Metering (30 min)</li> <li>✓ Fleet (15 min)</li> <li>✓ Break (10 min)</li> <li>✓ Operations and Maintenance (20 min)</li> </ul> </li> <li>▪ <b>Low Bay Lighting (1 hr)</b></li> </ul>	Lunch	<ul style="list-style-type: none"> <li>▪ <b>High Bay Lighting (1 hr)</b> <ul style="list-style-type: none"> <li>▪ Break (10 min)</li> </ul> </li> <li>▪ <b>Hands-On Lighting System Assessments (1 hr)</b></li> <li>▪ <b>SERF and S&amp;TF Daylighting System Tour (45 min)</b> <ul style="list-style-type: none"> <li>▪ Break (10 min)</li> </ul> </li> <li>▪ <b>Hands-On Energy Savings and Economics Analysis (1 hr)</b></li> <li>▪ <b>Review and Adjournment</b></li> </ul>
<p><b>Day 2</b> Tuesday 3/09/10</p>	<ul style="list-style-type: none"> <li>▪ <b>Renewable Energy</b> <ul style="list-style-type: none"> <li>✓ Photovoltaics (1 hr)</li> <li>✓ Solar Water Heating (30 min)</li> <li>✓ Break (10 min)</li> <li>✓ Solar Ventilation Preheat (5 min)</li> <li>✓ Wind Energy (1 min)</li> <li>✓ Break (10 min)</li> <li>✓ Ground Source Heat Pumps (20 min)</li> <li>✓ Biomass Heating and CHP (30 min)</li> <li>✓ Ocean Energy (5 min)</li> </ul> </li> </ul>	Lunch	<ul style="list-style-type: none"> <li>▪ <b>Water Conservation (30 min)</b></li> <li>▪ <b>Plug Loads (30 min)</b> <ul style="list-style-type: none"> <li>▪ Break (10 min)</li> </ul> </li> <li>▪ <b>Hands-On Rooftop Solar Analysis (30 min)</b></li> <li>▪ <b>S&amp;TF Solar PV Tour (15 min)</b></li> <li>▪ <b>SERF Solar Ventilation Preheat Tour (15 min)</b></li> <li>▪ <b>Renewable Fuels Heating Plant Tour (20 min)</b></li> <li>▪ <b>Hands-On Energy Savings and Economics Analysis (1.5 hr)</b></li> <li>▪ <b>Review and Adjournment</b></li> </ul>

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<p><b>Day 3</b> Wednesday 3/10/10</p>	<ul style="list-style-type: none"> <li>▪ <b>HVAC</b> <ul style="list-style-type: none"> <li>✓ Human Physiology (10 min)</li> <li>✓ HVAC Systems (20 min)</li> <li>✓ Cooling Systems (20 min)</li> <li>✓ Control Systems (20 min)</li> <li>✓ <i>Break (10 min)</i></li> <li>✓ HVAC System ECMs (20 min)</li> <li>✓ Heating System ECMs (20 min)</li> <li>✓ Domestic Hot Water ECMs (15 min)</li> <li>✓ <i>Break (10 min)</i></li> <li>✓ Cooling System ECMs (30 min)</li> <li>✓ Control System ECMs (30 min)</li> <li>✓ Motors (15 min)</li> </ul> </li> </ul>	Lunch	<ul style="list-style-type: none"> <li>✓ Retro-Commissioning Intro (1 hr)</li> <li>✓ Retro-Commissioning ECMs (1 hr)</li> <li>▪ <b>High Performance Buildings Research (30 min)</b></li> <li>▪ <b>Hands-On Walkthroughs</b></li> <li>▪ <i>Break (10 minutes)</i></li> <li>▪ <b>Hands-On Data Input</b></li> <li>▪ <b>Review and Adjournment</b></li> </ul>
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<p><b>Day 4</b> Thursday 3/11/10</p>	<ul style="list-style-type: none"> <li>▪ <b>Building Envelope (30 min)</b></li> <li>▪ <b>eQUEST Energy Modeling</b> <ul style="list-style-type: none"> <li>✓ Wizard Mode Q/A (30 min)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Building Envelope (20 min)</li> <li>✓ Lighting Systems (20 min)</li> <li>✓ Plug Loads (20 min)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Packaged HVAC Systems (20 min)</li> <li>✓ Central Cooling Plants (30 min)</li> <li>✓ Central Heating Plants (30 min)</li> </ul> </li> </ul>	Lunch	<ul style="list-style-type: none"> <li>▪ <b>Hands-On Walkthroughs (45 min)</b></li> <li>▪ <i>Break (10 mins)</i></li> <li>▪ <b>Hands-On Data Input Q/A (1-3 hr)</b></li> <li>▪ <b>Review and Adjournment</b></li> </ul>
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<p><b>Day 5</b> Friday 3/12/10</p>	<ul style="list-style-type: none"> <li>▪ <b>Generating the Report</b> <ul style="list-style-type: none"> <li>✓ Incentives (15 min)</li> <li>✓ Report Template &amp; Guidance (45 min)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Report Writing and Q&amp;A (1 hr)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Report Writing and Q&amp;A (1 hr)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Financing Options (45 min)</li> </ul> </li> </ul>	Lunch	<ul style="list-style-type: none"> <li>▪ <b>Finalizing the Report &amp; Next Steps</b> <ul style="list-style-type: none"> <li>✓ Finalizing the Report/ Executive Summary (1 hr)</li> <li>✓ <i>Break (10 mins)</i></li> <li>✓ Measurement &amp; Verification (45 min)</li> <li>✓ NREL &amp; FEMP Capabilities (15 min)</li> <li>✓ Survey, Feedback, Review &amp; Adjournment</li> </ul> </li> </ul>
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