



### Process Heating Workshop

[March 12, 2024](#) 8:00 am – 12:00 pm

Industrial process heating presents a variety of electrification opportunities. Technologies utilized include, but are not limited to, resistance, infrared heating, induction, and dielectric technologies for curing and drying applications. Traditional fossil fuel-based heating remains viable in the near term with innovations and hybrid approaches thru direct and indirect electrification. Benefits range from increased productivity, improved worker health and safety, decarbonization of industry, as well as greater energy efficiency thru better controls and process optimization.

TUESDAY MARCH 12, 2024, 8:00 AM – 12:00 PM ET		
TIME	TOPIC	PRESENTER
8:00 am	<b>Opening Comments and Introduction</b>	<b>Scott Bishop, EPRI</b>
8:10 am	<b>Resistance Heating</b> – The Workhorse of Process Heating and Conditions for Appropriate Application	<b>James Lewis, Chromalox</b>
8:35 am	<b>Induction Heating in Manufacturing</b> <ul style="list-style-type: none"> <li>• Basic Principles</li> <li>• Market Applications</li> <li>• Innovations</li> </ul>	<b>Girish Dahake, Ambrell</b>
9:00 am	<b>Advances in Alternate Energy Carriers and Hybrid Electric Operations</b>	<b>BJ Bernard, Surface Combustion</b>

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9:25 am	<b>Electric Technologies for Material Drying</b> <ul style="list-style-type: none"><li>• Basic Principles</li><li>• Market Applications</li><li>• Innovations</li></ul>	<b>Dr. Jamal Yagoobi,</b> <b>Worcester Polytechnic</b> <b>Institute Center for</b> <b>Advanced Research in</b> <b>Drying</b>
9:50 am	<b>Break/Process Heating Demonstrations</b>	<b>EPRI and Industry</b>
10:20 am	<b>Steps to Electrifying Industrial Processes</b> <ul style="list-style-type: none"><li>• Energy Efficiency</li><li>• Electrification Assessments</li><li>• Energy Modeling Tools</li></ul>	<b>Kiran Thirumaran, Oak</b> <b>Ridge National Laboratory</b>
10:45 am	<b>EPRI's Role in Advancing Industrial Process Heating</b>	<b>Rick Ranhotra, EPRI</b>
11:00 am	<b>Moderated Panel Discussion and Summary</b>	<b>Scott Bishop, EPRI</b> <ul style="list-style-type: none"><li>• James Lewis</li><li>• Kiran Thirumaran</li><li>• BJ Bernard</li><li>• Girish Dahake</li><li>• Dr. Jamal Yagoobi</li></ul>
11:30 am to Noon	<b>Q&amp;A with Attendees / Adjourn</b>	<b>Rick Ranhotra, EPRI</b>