

# JUNE 2021 TMAF WEBATHON AGENDA

Last Updated: 6/3/21

## Day 1: Tuesday, June 8, 2021

11:00 AM EDT	 <b>Opening Remarks</b> Jerry O'Keeffe, Chair, Energy Solutions Center Board of Directors David Weiss, Consultant, Energy Solutions Center Ashley Duckman, Executive Director, Energy Solutions Center
11:30 AM EDT	 <b>The Maximus: Changing Tank-Type Water Heaters</b> Tim Gaughan, Rheem Tim Gaughan will discuss the new Maximus water heater, which is the most efficient water heater in its class. This unit delivers more than twice the hot water of a standard tank unit and has integrated Wifi and 0" side clearance so it can fit in a closet. This is a game-changer for tank-type water heaters.
12:15 PM EDT	 <b>Leveraging Marketing Research to Grow New Business and Improve Customer Experience</b> Amy Garten, Washington Gas This presentation will highlight Washington Gas research applications, secondary research sources, and use cases. Key takeaways will include effective practices for DIY surveys, gain deeper insights through secondary research, and highlight best practices in marketing research.
1:00 PM EDT	 <b>Virtual Power Networking Break</b> Connect with fellow TMAF attendees during a 30-minute virtual networking break on the Rally platform. Space is limited, so first-come, first-serve. <b>Use this link to access the break:</b> <a href="https://bit.ly/3wX9cJv">https://bit.ly/3wX9cJv</a>
1:30 PM EDT	 <b>Multifamily Case Study: 100 Above the Park Luxury Apartments</b> Ramona Stevens and Tom Schultz, Spire This presentation will cover the business development leadership role in supporting collaboration with architects and design-build mechanical contractors to coordinate natural gas systems. We will review the specialized natural gas mechanical systems supporting the current ASHRAE. Recommendations for Virus Reduction in multi-family/commercial buildings will also be covered.
2:15 PM EDT	 <b>To Infiniti and Beyond – Infiniti Series K</b> Stephen McDonald, Bradford White Bradford White will be sharing the benefits and features of their new Infiniti K Series tankless water heater. This unit is ENERGY STAR rated, has a compact design, Smart Technology, and is eligible for rebates and tax credits.
3:00 PM EDT	 <b>The Role of Renewable Natural Gas in Decarbonization Strategies</b> Nick Soncrant, Kinetrex Energy Kinetrex Energy will provide an overview of renewable natural gas, market dynamics, and how utilities and industrial business can decarbonize their natural gas supply.
3:45 PM EDT	 <b>Opportunities to Collaborate with DOE on Industrial Efficiency, Decarbonization, and Workforce Development</b> Anne Hampson, U.S. Department of Energy Anne Hampson, Program Manager of the U.S. Department of Energy Advanced Manufacturing Office's Technical Partnerships program, will provide an overview of AMO's engagement programs. She will explain how they are helping companies reduce their energy intensity, environmental footprint, and create a new generation of workers skilled in all aspects of energy management. She will also explain how attendees and other stakeholders can participate in each of the programs.

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Day 2: Wednesday, June 9, 2021

11:00 AM EDT	 <b>Residential Conversion and Trade Ally Program</b> <b>Kim Kelly, CenterPoint Energy</b> Learn how CenterPoint has developed a successful residential conversion program and associated trade ally program; both programs pair well together to encourage residential conversions to natural gas.
11:45 AM EDT	 <b>The Next Generation of Heat and Power</b> <b>Alan Clarke, iGen</b> iGen is excited to share that they have installed the next generation of their heat and power system in Canada. Join us and hear the details on this newest technology.
12:30 PM EDT	 <b>New Developments in CHP</b> <b>Jeff Glick, Tecogen</b> Tecogen will discuss interconnection updates and the need for Inverter Grid Interface, new CHP technology developments, and today's current market drivers, as well as energy cost savings, resiliency, and carbon savings.
1:15 PM EDT	 <b>Virtual Power Networking Break</b> Connect with fellow TMAF attendees during a 30-minute virtual networking break on the Rally platform. Space is limited, so first-come, first-serve. Use this link to access the break: <a href="https://bit.ly/3wX9cJv">https://bit.ly/3wX9cJv</a>
1:45 PM EDT	 <b>Mainspring Linear Power Generator</b> <b>John Igo, Mainspring Energy</b> The Mainspring Linear Generator delivers fully dispatchable, fuel-flexible, low-emissions power that increases resiliency and accelerates the transition to renewable fuels. John will discuss their unique design that enables 24/7 load-following primary power operation, reliable power when the grid is down, peak-load shaving, and onsite solar firming, among other capabilities.
2:30 PM EDT	 <b>Power for the People: Empowering Heating Infrastructures</b> <b>Dan Nadav, Enviro Power</b> EnviroPower has several commercial pilot studies underway in Connecticut. Dan will share the latest updates on their technology and how the pilot cases have been operating.
3:15 PM EDT	 <b>What Really Improves or Decreases Boiler Efficiency</b> <b>Kelly Paffel, Inveno Engineering</b> What are the factors that need reviewing in regards to boiler efficiency? Combustion efficiency is an area that results in the highest return on investment but probably the most overlooked aspect of boiler efficiency. Thermal efficiency is an area where the boiler itself can only have a few items to improve efficiency. However, adding an external heat reclaim system can have a significant impact on boiler efficiency. Boiler losses from radiation and blowdown losses can be, in some cases, substantial. Steam thermal cycle efficiency starts with the boiler operation. On average, 18% of the fuel energy injected into the boiler is lost at the boiler operation.
4:00 PM EDT	 <b>Advanced Transportation Industry Update</b> <b>Ted Barnes, Gas Technology Institute</b> Ted Barnes will give an update on various current and near-term activities across the advanced transportation sector, including RNG, hydrogen, and electric fuels utilized in the on-road and off-road markets. The discussion will cover the industry and several specific GTI research projects on advanced vehicles and fueling station technologies.

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## Day 3: Thursday, June 10, 2021

11:00 AM EDT	 <b><i>Use of Hydrogen in Industrial Boilers</i></b> <b>Gregg, Achtenhagen, Cleaver Brooks</b> This presentation will cover the impact of using hydrogen on boiler operation as many industrial customers use 100% hydrogen or mix it with natural gas. Also covered will be things to consider when using hydrogen in boiler applications.
11:45 AM EDT	 <b><i>100% Zero Emissions with Hydrogen</i></b> <b>Jack Brouwer, University of California-Irvine</b> This presentation will cover all the features of hydrogen that will enable all sectors of the economy to become zero emissions.
12:30 PM EDT	 <b><i>Converting Waste Heat into Clean Electricity</i></b> <b>Tom Brokaw, ElectraTherm</b> This presentation will go over the basics of an ORC and its different applications, particularly ElectraTherm's latest offering: the Active Cooler. The Active Cooler is a net-zero cooling-to-power solution that uses an ORC to provide (engine) cooling and power generation with no fuel consumption or emissions. The Active Cooler is a radiator alternative that pays for itself by generating clean electricity. This electricity can be used to offset further costs, sold to utility, or utilized in a micro-grid. Major industries to benefit from this technology focus on power generation and industrial processes such as gas compression in the oil and gas sector. Flare elimination, carbon reduction, and applications in wastewater treatment will also be touched on.
1:15 PM EDT	 <b><i>Gas Fired Absorption Heat Pumps and Chillers</i></b> <b>Bert Warner, Robur</b> This presentation will be an overview of the Robur products currently available and ready to be installed at your job site. Robur has had approved full production and commercialized units ready to go since 2006!
2:00 PM EDT	 <b><i>Creating Pipeline Quality Gas from Biogas</i></b> <b>Michael Norelli, Northeast Energy Systems/Western Energy Systems</b> NES-WES is now the distributor for Ammongas. Michael will cover the basic technology and advantages of the Ammongas system to upgrade biogas to pipeline quality gas using an amine absorber-stripper system.
2:45 PM EDT	 <b><i>Vicot GHP: Cost-effective Solution for Space Heating and Domestic Hot Water</i></b> <b>Houman Ameri, Homy Buildings Solutions</b> Homy Building Solutions represents Vicot's gas heat pump, a high-efficient unit for residential and commercial heating and domestic hot water systems. Vicot offers a range of unit capacities from 68,000 Btu/hr to 500,000 Btu/hr.
3:30 PM EDT	 <b><i>Accelerating the Energy Transition: Micro CHP Business Models for European Energy Utilities</i></b> <b>Willy Ahout, Micro Turbine Technology (MTT)</b> This session will address micro-CHP business models for gas utilities and utility partnership success stories in Europe.