

OCTOBER 2021 TMAF AGENDA

Updated 10/1/2021

Day 1: Tuesday, October 5th

11:00 AM EDT	 Opening Remarks Jerry O'Keeffe, Chair, Energy Solutions Center Board of Directors Ashley Duckman, Executive Director, Energy Solutions Center Join the ESC's Board Chair and Executive Director in a welcome presentation to kick-off TMAF.
11:30 AM EDT	 RNG Development in Florida Timothy O'Connor, Teco Peoples Gas Teco Peoples Gas is building and will own and operate a renewable natural gas (RNG) facility with Alliance Dairies. The RNG produced from the waste of approx. 6,500 cows will be enough to serve 4,400 homes per year. Tim will discuss the project, which made Teco a leader in Florida's clean energy futures.
12:15 PM EDT	 RNG: A Pathway to Renewable Energy Future Paul Cammack, Black Hills Energy Black Hills Energy will share the successes they have had with RNG facilities across their service territory. They will discuss the versatility of water resource recovery facilities and landfills to provide suitable renewable natural gas.
1:00 PM EDT	 Update on the Status and Outlook for Hydrogen Fuel Cell Trucks in the North American Market Erik Neandross, Gladstein, Neandross, & Associates Erik Neandross will summarize the current landscape of heavy-duty hydrogen fuel cell truck projects, technology developments, deployments, and the potential future direction of this segment of the clean tech industry. The presentation will culminate with a summary of the considerations for the future of this technology.
1:45 PM EDT	 New Carbon-Footprint Reducing mCHP Application for Homes and Businesses Jim Warren, Enginuity Power Systems Enginuity developed a micro CHP system that is coupled to a tank water heater and can provide 6kW of free electricity while heating hot water at an affordable price point.
2:30 PM EDT	 How Hydrogen CHP is Enabling Net Zero Around the Globe Kurt West, 2G Energy Kurt West will discuss the practical realities from field experience working with utilities and governments to advance clean carbon goals.
3:15 PM EDT	 Net Zero and Natural Gas Utilities: Industry Perspectives Richard Meyer, American Gas Association Governments and businesses around the world are pledging to change their business practices in an effort to reach a reduced or net-zero emissions goals. But what are the practical ways to achieve these ambitious goals? During this session, Richard Meyer from AGA will examine the technologies and strategies available to contribute to greenhouse gas emissions reduction goals.
4:00 PM EDT	 Natural Gas Technology for Driving Down Emissions Rita Hansen, OnBoard Dynamics Founded in 2013, Onboard Dynamics has developed unique, patented, mobile, and modular technology that simplifies natural gas capture, compression, and movement. Whether deployed at a remote pipeline job site, in an oil or gas production field, at a dairy farm, or at a fleet yard refueling natural gas vehicles, their solution compresses natural gas or renewable natural gas from any source without the need for electricity. Their newest product is the GoVAC™ Flex, a revolutionary tool for minimizing methane releases during pipeline blowdowns. It is powered by a small portion of the natural gas being recovered, so no external power is required. Its compact size facilitates transport and positioning at job sites. Remote monitoring ensures reliable operation and responsive service. State-of-the-art telemetry provides accurate and detailed environmental reporting.



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Day 2: Wednesday, October 6th

11:00 AM EDT	 <i>Small-Scale Steam Methane Reforming</i> Ellart de Wit, HyGear Hydrogen will become one of the major energy vectors in the future because it can be produced with many different technologies. Ellart de Wit will explain how to produce hydrogen with small-scale steam methane reforming. The Xebec/HyGear solution will be compared with alternative production methods.
11:45 AM EDT	 <i>H2 Hydrogen Home</i> Armando Infanzon, SoCalGas The H2 Hydrogen Home will be the first fully-integrated demonstration project with solar panels, a battery, an electrolyzer to convert solar energy to hydrogen, and a fuel cell to supply electricity for the home. Hydrogen will also be blended with natural gas and used in the home's heat pump HVAC unit, water heater, clothes dryer, and gas stove. The home will function and feel exactly like a regular home but use reliable and clean energy 24 hours a day, 7 days a week, 365 days a year.
12:30 PM EDT	 <i>Find Ideal Prospects for Conversions Near Your Pipelines and Extend Assets</i> Tomer Borenstein, BlastPoint BlastPoint has extensive experience with data mining and data analytics helping utilities predictively and proactively support customer goals. Tomer will discuss how he worked with Peoples Gas in PA to develop leads.
1:15 PM EDT	 <i>Application of WATT's Natural Gas SOFC Fuel Cell</i> Rich Romer, WATT Fuel Cell WATT Fuel Cell Corporation is a manufacturer and developer of Solid Oxide Fuel Cell ("SOFC") stacks and systems that operate on natural gas. WATT's Hybrid Power Management system works in tandem with renewable power sources (Solar & Wind) and energy storage to provide quiet, efficient, affordable, and environmentally responsible energy solutions for end-users.
2:00 PM EDT	 <i>Successful RNG Projects - Making the Most of People and Poultry Waste</i> Justin Stankiewicz, Chesapeake Utilities Justin Stankiewicz will share the success Chesapeake Utilities has had with RNG facilities located throughout their territory. Chesapeake has been able to produce suitable RNG from both waste recycling and poultry waste/litter.
2:45 PM EDT	 <i>Super Life</i> Greg Gale, NOVA Home Loans Join Greg Gale for a motivational presentation and learn more about the top attributes that will help you become a top performer in your company.
3:30 PM EDT	 <i>ConDex Micro-Box Condensing Economizer</i> Cameron Veitch, Combustion & Energy Systems Combustion & Energy Systems developed a new micro-box condensing economizer product in collaboration with the National Gas Innovation Fund. This product is designed for 200 -450 HP boilers. This unit is being demonstrated in Toronto and commissioned to show great results.
4:15 PM EDT	 <i>The STEAMGARD Venturi Steam Trap: An Overview</i> Raj Saberwal, STEAMGARD Raj Saberwal will present the details of how this venturi trap impacts Steam System Efficiency. He will cover the operating principles of THE STEAMGARD SYSTEM® and its advantages.

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Day 3: Thursday, October 7th

11:00 AM EDT	 How, Who, Why, Where, and When to Cummins RNG Net Subzero Emissions Engines Hugh Donnell, Cummins Hugh Donnell will cover the latest updates on the various Cummins ultra-low emission CNG engines using natural gas and renewable natural gas (RNG).
11:45 AM EDT	 HeatAmp Sweden AB: Cost-Effective Residential Retrofit Gas Heat Pump Water Heater Magnus Ekblad, HeatAmp HeatAmp is a spin-off from SaltX Technology. This Sorption technology is a hybrid adsorption-absorption cycle called the triple-state sorption cycle. HeatAmp is a gas heat pump tank water heater with efficiencies > 120-%.
12:30 PM EDT	 The XHP Broiler from Garland – 2021 Blue Flame Award Winner Jane Laurie, Garland Find out what makes the new XHP broiler from Garland stand out among the competition. This new broiler is loaded with features every kitchen will want and it was awarded the 2021 Blue Flame product of the year.
1:15 PM EDT	 CO2 Capture and Market Value Sudhir Brahmabhatt, Technology Services, Inc. CO2 is an important and valuable chemical that has many industrial applications. Dr. Brahmabhatt will review how to capture CO2 from various sources such as exhaust from power plants and refineries. He will also discuss the economics of capturing CO2 in various industries such as food and pharma and the economic impact of capturing CO2 from the exhaust stream and the ROI.
2:00 PM EDT	 Results of ESC's Commercial Heat Pump Emissions and Operational Cost Analysis David Jones, ICF This session will present the results of ESC's GHP study. The study compared GHPs to conventional HVAC and electric heat pumps and calculated energy costs and CO2 emissions out to 2050. Assumptions were made to green the power grid into the future and introduce RNG to the gas system.
2:45 PM EDT	  Low Carbon Built Environment and the Contribution of Natural Gas Heat Pumps in Canada Heike Schreiber, National Research Council Canada Heike Schreiber will provide a brief overview on current and future R&D priorities at the Construction Research Center of the National Research Council Canada to enable the construction sector to achieve a Low Carbon Built Environment in Canada. Current work on Natural Gas Heat Pumps for carbon reduction will be discussed.
3:30 PM EDT	 Shaping the Energy Future with Safe and Efficient End-Use Gas Technologies Rich Kooy, Utilization Technology Development NFP and Matt Gregori, SoCalGas Many gas-fired technology and product innovations have been advanced by UTD, a 501(c)(6) organization of 20 North American gas utilities that partners with GTI, ESC, entrepreneurs, OEMs, prime R&D funding governmental agencies, national labs, and others. Hear about some of UTD's recent impacts and exciting new technologies being supported by UTD, and how to partner with UTD in more efforts to save energy, reduce costs and emissions, integrate more renewable energy, and increase safety, reliability and resiliency in the end use of gas.