

# The Renewable Thermal Buyers' Statement: Companies and Institutions Call for More Renewable Thermal Options

April 2, 2019



**RENEWABLE  
THERMAL  
COLLABORATIVE**

# Agenda

- Introductions
- Renewable Thermal – Why is it important?
- Introduction to the Renewable Thermal Collaborative
- Buyers' Statement discussion
- Q&A
- Next steps

*Questions? Submit them through the side panel*



*Tweet about this webinar: @Rethermal or #REthermal*

# Introduction

**Speakers:**

Adam Agalloco, Energy Manager, City of Philadelphia



Peter Dahm, Sustainability Director, Operations & Natural Resources, Cargill

Jay Harf, Vice President of Environmental Health & Safety, L'Oréal Americas

Marty Spitzer, Senior Director, Climate and Renewable Energy, World Wildlife Fund

**Facilitators:**

Blaine Collison, Senior Vice President, David Gardiner and Associates  
Isabel Harrison, Communications Manager, David Gardiner and Associates



# Renewable Thermal: Beyond Electricity



**50% OF GLOBAL**  
final energy is comprised  
of energy used for heating  
and cooling



**\$270 BILLION**  
amount heating and  
cooling cost in the  
United States annually.



**39% OF GHG**  
emissions from energy-  
related sources can be  
attributed to heating  
and cooling.

Facilitated by:



In collaboration with:

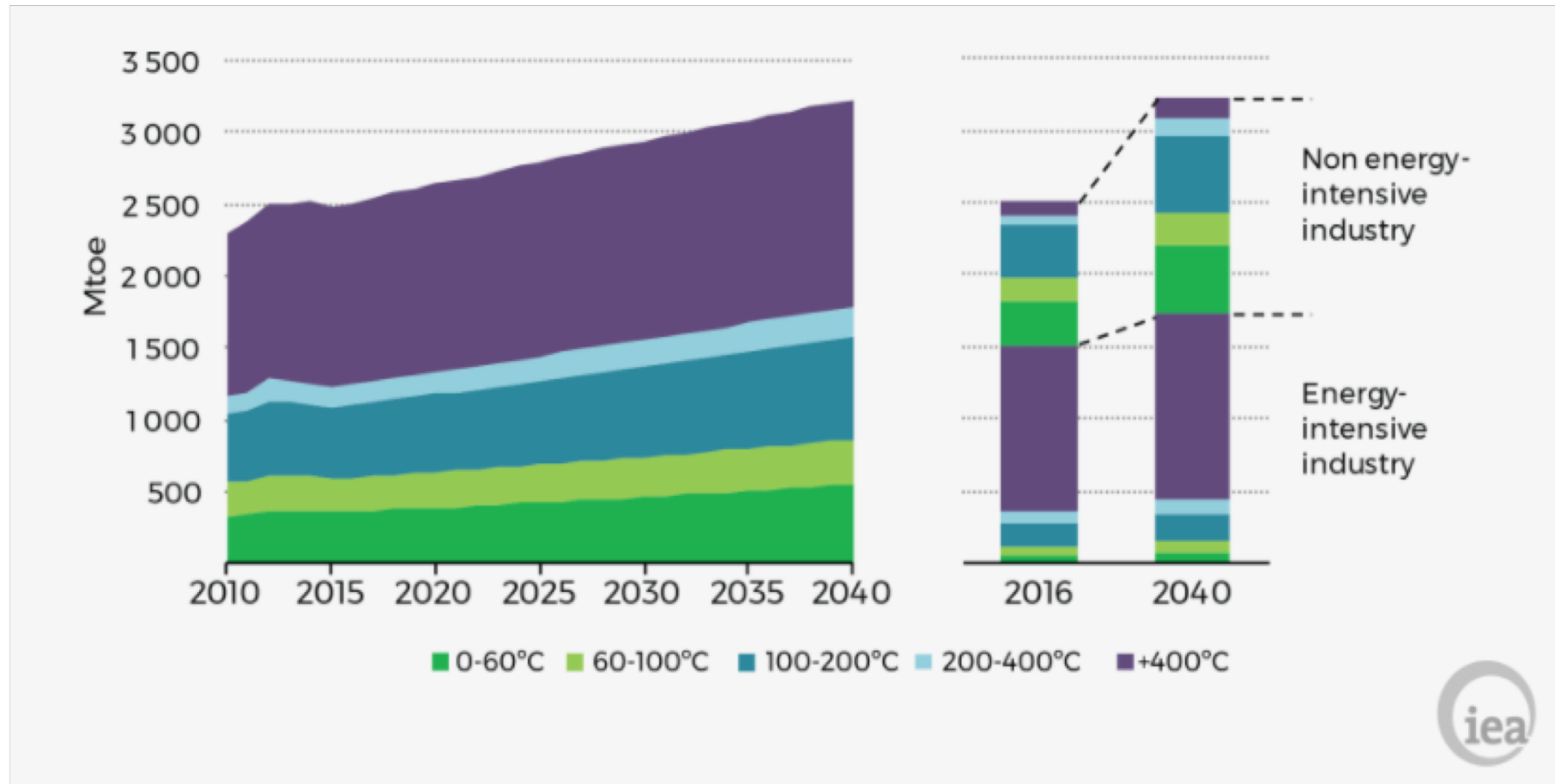


The world already has  
great renewable electricity  
solutions but if we are to  
keep the warming of the  
planet below 2 degrees  
then we also need great  
renewable thermal  
solutions.

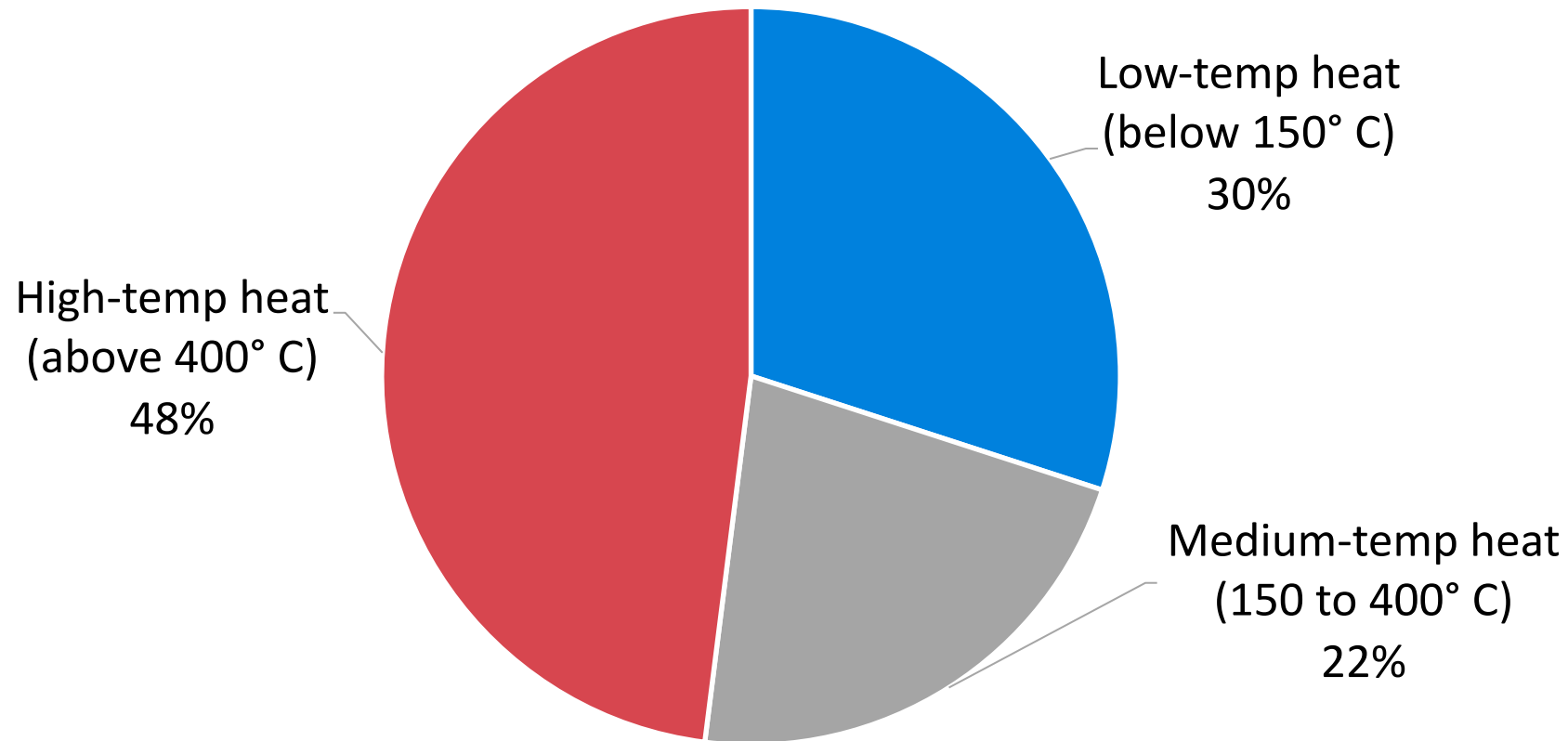
Barry Parkin, Chief Sustainability and  
Health & Wellbeing Officer, Mars



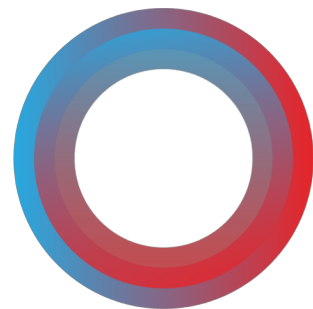
# Industrial Heat: 2/3 of Sector Demand, 1/5 All Energy



# Breakdown of Heat Demand in Industry



*Source: International Energy Agency, 2017*



# RENEWABLE THERMAL COLLABORATIVE

## Members:



City of  
Philadelphia



## Sponsors:



mas  
Energy

# RTC Members' Renewable Energy Targets

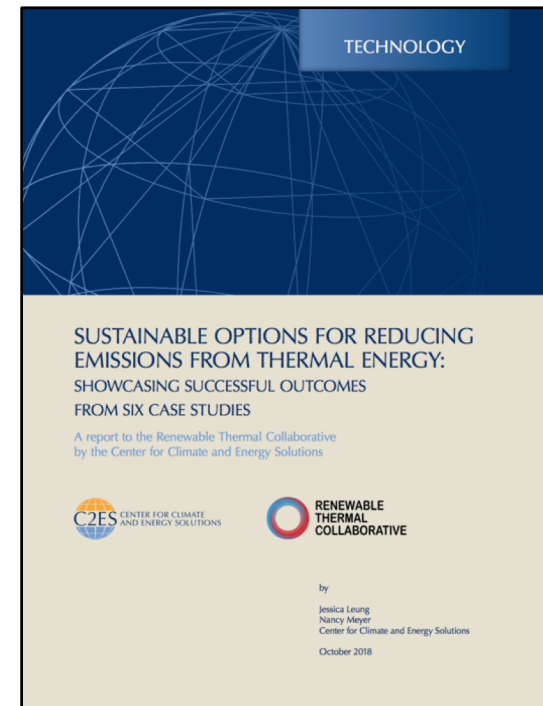
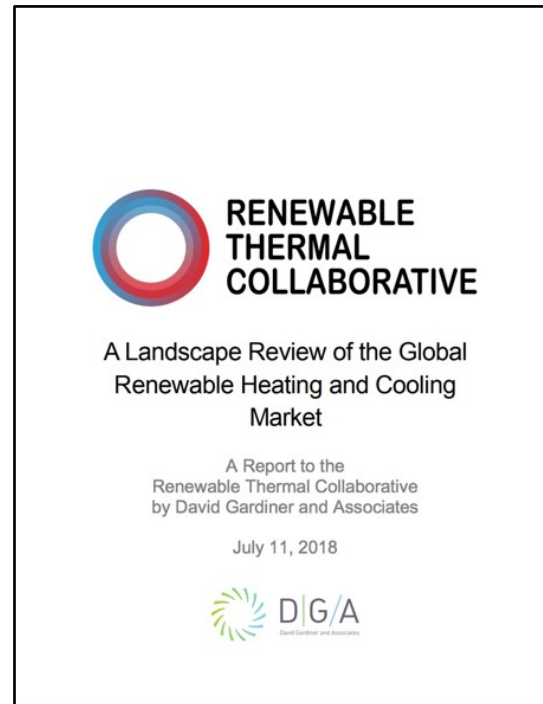
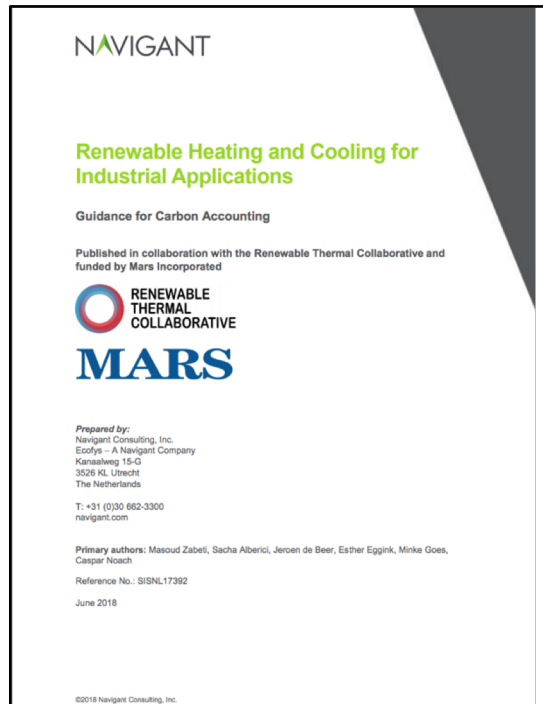
- **Cargill** – 10% reduction of GHG emissions by 2025 from a 2017 baseline
- **General Motors** – Generate or source all electrical power with 100% renewable energy by 2050
- **Kimberly-Clark Corporation** – Through renewable energy sourcing, reduce GHG emissions 20% by 2022
- **L'Oréal USA** – Goal to decrease carbon emissions for manufacturing and distribution facilities by 60% by 2020
- **Mars, Inc.** – 27% reduction by 2025 and 67% reduction by 2050 of GHG emissions across their value chain as well as zero net GHG emissions from their direct operations by 2040
- **Procter & Gamble** – 100% renewable electricity by 2030 and 50% GHG emission reduction by 2030
- **City of Philadelphia** – The City is committed to transitioning Philadelphia to 100% clean, renewable energy and demonstrating leadership in emissions reductions own facilities through its Municipal Energy Master Plan

# Long-Term Vision for RTC

1. Educate parties about urgent need to address renewable options for thermal energy
2. Identify market barriers to renewable thermal technologies
3. Enable delivery of cost-competitive renewable thermal options
4. Improve marketplace and financing for renewable thermal technologies
5. Develop long-term vision for scaling up renewable thermal technologies in U.S.



# Our Work



Available for download: <https://www.renewablethermal.org/category/rtc-publication/>

# Key Barriers to Renewable Thermal Deployment

	Key Barrier to Renewable Thermal
Information Barriers	<ul style="list-style-type: none"><li>• Lack of understanding</li><li>• Lack of information on environmental attributes and how to quantify</li></ul>
Market Barriers	<ul style="list-style-type: none"><li>• Disaggregated supply</li><li>• Limited scale for certain technologies</li><li>• Difficulty quantifying, tracking or gaining ownership of environmental attributes</li></ul>
Finance Barriers	<ul style="list-style-type: none"><li>• Some technologies are cost prohibitive</li><li>• For commercial buildings: split incentives and low replacement and refurbishment rates</li></ul>
Technology Barriers	<ul style="list-style-type: none"><li>• Technology and financial analyses of electrification options for thermal uses</li></ul>

# CURRENT BUYERS' STATEMENT SIGNATORIES



# RENEWABLE THERMAL BUYERS' STATEMENT



## 1. ACCELERATE COST-EFFECTIVE RENEWABLE THERMAL TECHNOLOGIES



Read the full statement: <https://www.renewablethermal.org/buyers-statement/>

# RENEWABLE THERMAL BUYERS' STATEMENT



1. ACCELERATE COST-EFFECTIVE RENEWABLE THERMAL TECHNOLOGIES



2. CREATE MARKET APPROACHES AND INSTRUMENTS



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1. ACCELERATE COST-EFFECTIVE RENEWABLE THERMAL TECHNOLOGIES



2. CREATE MARKET APPROACHES AND INSTRUMENTS



3. INCREASE MARKET TRANSPARENCY



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4. STANDARDIZE RENEWABLE THERMAL ENERGY PRODUCTS



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5. CREATE INNOVATIVE FINANCING AND PROJECT STRUCTURES



6. EXPAND COLLABORATION AMONG MARKET STAKEHOLDERS

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# Discussion and Q&A

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# Engage with the Renewable Thermal Collaborative



Are you a thermal energy end user?

- Sign on to the Renewable Thermal Buyers' Statement
- Become a member of the Renewable Thermal Collaborative

Interested in keeping up with our work?

- Sign up for our newsletter – [www.renewablethermal.org](http://www.renewablethermal.org)

# Thank you

- Additional questions? Contact [blaine@dgardiner.com](mailto:blaine@dgardiner.com)