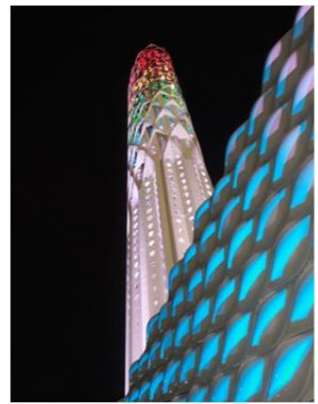


# Green Heat Network Fund (GHNF)

Workshop 1 – Waste Heat

15<sup>th</sup> March 2022



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# Introduction

Tim Ward – Stakeholder Engagement Manager  
**Green Heat Network Fund**





# Agenda

**11.00** Welcome

**11.05** Waste Heat and the GHNF

**11.20** Questions and Answers Session

**11.58** Closing Remarks

**12.00** Event Close

# Meeting Rules

PLEASE NOTE THAT THIS SESSION WILL BE RECORDED

- Please **switch off** your camera and **mute** your microphone
- **Questions** – please post any questions that you may have in the chat window.

We'll endeavour to answer them at the end of the session.

All questions and answers will be compiled into a document that will be shared after the event

# Recording Starting

THIS SESSION IS NOW BEING RECORDED



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# Waste Heat and the GHNF

Tom Allard – Heat Network Specialist  
**Green Heat Network Fund**

Green Heat Network Fund (GHNF)



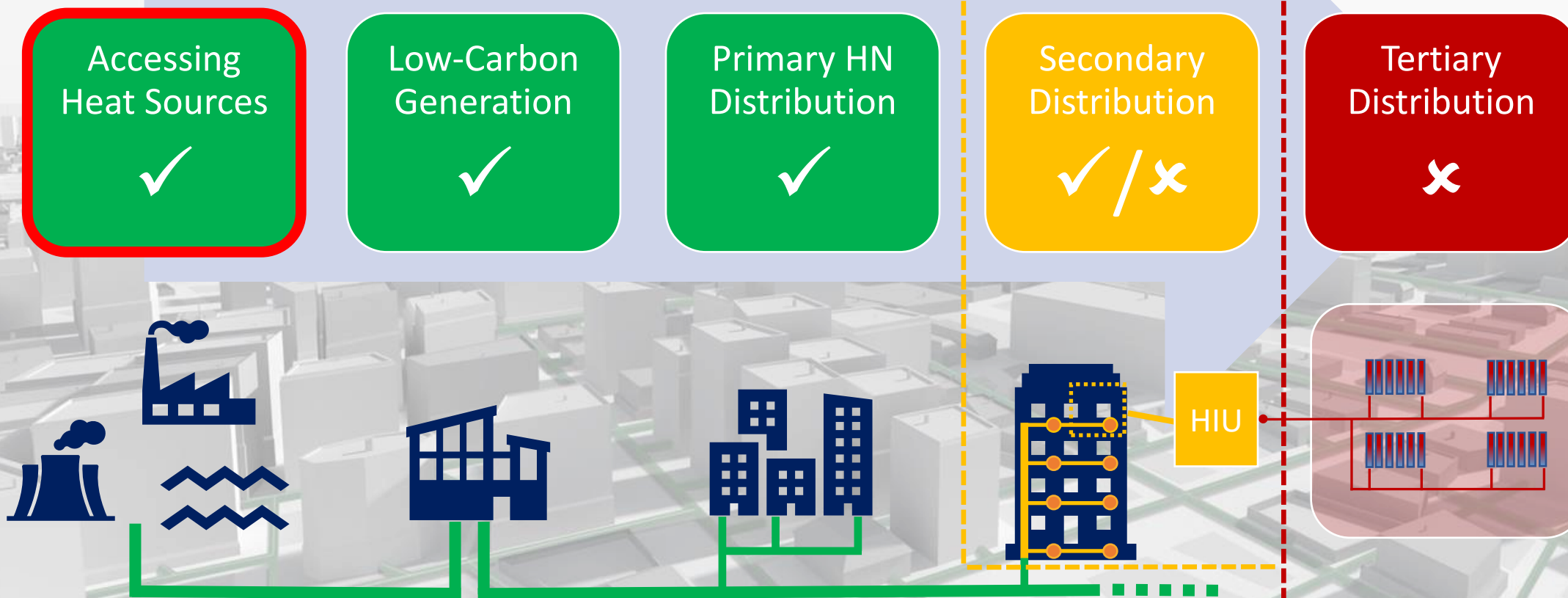
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# Sources of Waste Heat - examples

- **Industrial and commercial process:**
  - Chilling/cooling - food, data centres, etc.
  - Manufacture – glass, steel, etc.
- **Power generation:**
  - Heat rejected to atmosphere (flue gasses and condensing)
  - Bleeding steam (low or high-grade)
- **Energy from waste (EfW):**
  - High/Low-grade heat
- **Wastewater:**
  - Sewer-source heat recovery
  - Effluents from industrial and commercial process

# Scope of Support





# Accessing Waste Heat

- GHNF won't support CAPEX for the process
- Only support for **accessing** the heat



# Core Metrics

- Applicants are able to self-assess their project against **four** initial pass/fail gated metrics
- Simplified and more transparent application process



## Carbon Intensity

100gCO<sub>2</sub>e/kWh thermal energy delivered



## Customer Detriment

Protecting domestic and micro-business end users



## Social IRR

3.5% or greater over 40-year period



## Minimum Thermal Demand

2GWh/year (100 dwellings if off-gas-grid rural)

# Funding Limits



## Capped Award

4.5 pence/kWh of grant per kWh delivered over 15 years\*



## Maximum Award

Up to, but not including, 50% of CAPEX + Commercialisation costs

\*Subject to review



# Evaluating Carbon Equivalent

**Does the recovery of the heat affect the efficiency of the process?**

(e.g. will it use more primary energy?)

**Does the process have a requirement to utilise heat?**  
(such as licence or planning condition)

**Would the process function without heat recovery?**

# Evaluating Carbon Equivalent

- **Industrial process**
  - Applicant evaluation of impact
- **Power generation**
  - High-grade heat - kWh foregone electricity – emissions factor
- **Energy from waste (EfW)**
  - BRE technical note '*Modelling Energy from Waste Facilities*'
  - Z-Factor – baseline level of 5 assumed
- **Wastewater**
  - Considerations

# Evaluating Risk

- **Contracting for supply agreements**
- **Redundancy of supply – protecting consumers**
- **Monitoring and evaluation of available heat**
- **Commercialisation activity support**



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# Q&A Session

All questions and answers will be logged and a document will be circulated after the event

# Guidance for Applicants

Available on **GOV.UK** website



Your feedback is very welcome

  
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& Industrial Strategy

## Green Heat Network Fund

Round 1: Guidance for applicants

Version 1.0

March 2022

# Next Workshops

- We will be hosting a series of weekly workshops to support applicants and their supply chain partners
  - **22<sup>nd</sup> March 2022 – Market Transformation Commitments**
  - **29<sup>th</sup> March 2022 – Budgets and Drawdown of Funds**
  - **5<sup>th</sup> April 2022 – Sleeving of Low-Carbon Heat**
  - **12<sup>th</sup> April 2022 – Shared Ground Loops and Aggregation**
- Each workshop will have a different 15-minute presentation and 45 minutes for Q&A
- Join our mailing list: [ghnfcorrespondence@beis.gov.uk](mailto:ghnfcorrespondence@beis.gov.uk)



# Find Out More



Visit the .GOV website and search 'GHNF'



Contact us: [ghnfcorrespondence@beis.gov.uk](mailto:ghnfcorrespondence@beis.gov.uk)



Thank you!