



HEAT NETWORK EFFICIENCY SCHEME



Department for Business, Energy & Industrial Strategy Gemserv





Welcome and Agenda

David Hiller HNES Programme Director (Gemserv)











Welcome



Microphones will be muted to limit disruption



Webcams will be turned off to improve video quality



Please ask questions using the Q&A functionality



Agenda

Time	Session	Speaker
14:00 - 14:05	Introduction	David Hiller
14:05 - 14:15	Policy Context	Alex Trebowicz and Katie Adams
14:15 - 14:25	Introduction to HNES	Louise Singleton
14:25 - 14:35	Heat Network videos	Joel Hamilton
14:35 - 14:50	Q&A	Samantha Shea
14:50 - 15:00	Break	
15:00 - 15:15	Application process	Sam Hales
15:15 – 15:45	Assessment process	Georgia Kokkinou
15:45 - 16:00	Support available for applicants	Chris Forster





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Policy Context

Alex Trebowicz – HNES Project Lead (BEIS) Katie Adams – HNES Scheme Design Manager (BEIS)



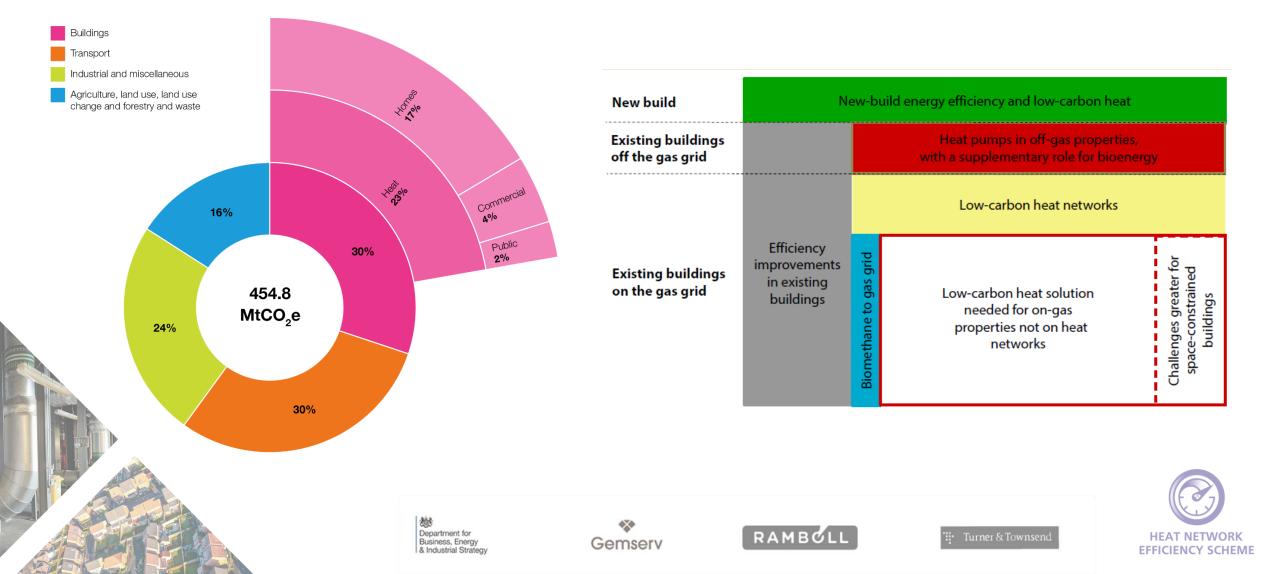
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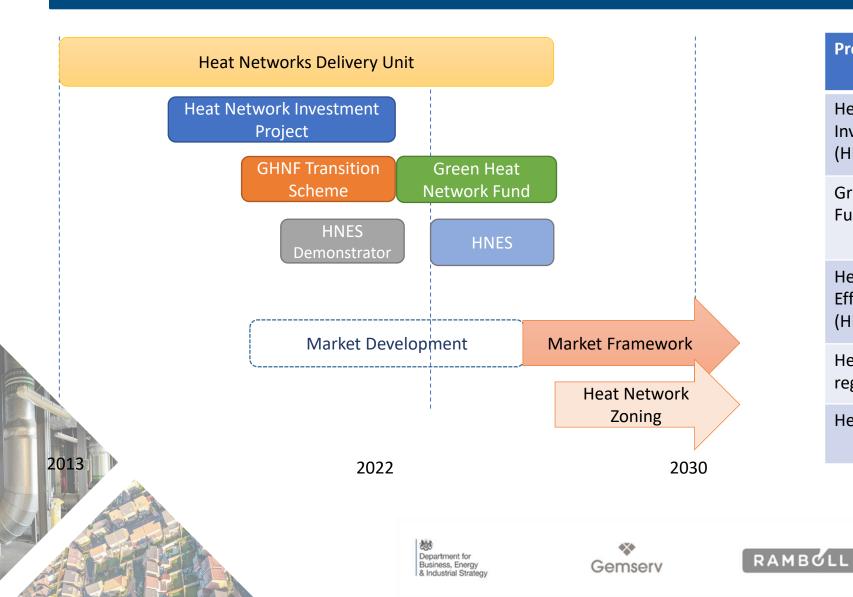


Decarbonisation of Heat



HEAT NETWORKS TRANSFORMATION PROGRAMME

Supporting and growing the heat network market



Project/Policy	Timeframe	Budget
Heat Network Investment Project (HNIP)	16/17 – 21/22	£320m
Green Heat Network Fund (GHNF)	22/23 – 24/25	£288m
Heat Network Efficiency Scheme (HNES)	21/22 23/24 – 25/26	£5.1m £32m
Heat Network regulation	24 onwards	Regulatory
Heat Network Zoning	25 onwards	Regulatory



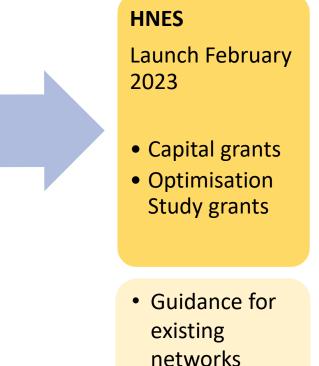
HNES development

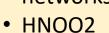


 Optimisation Studies (direct) HNES Demonstrator Oct 21 – Mar 22

Ongoing M&R

- Capital grants
- Optimisation Study grants







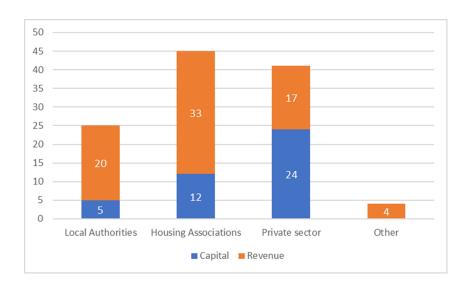
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HNES Demonstrator – Optimisation Studies

Optimisation Studies	73
Communal networks	40
District networks	33
Total connections (dwellings)	11,266
Total connections (commercial)	317
Average dwellings per project	161
Average work package total cost	£282,900
Average predicted fuel use reduction (natural gas, kWh)	371,100
Average predicted fuel use reduction (electricity, kWh)	23,300
Total cost of measures (all projects)	£18,900,000





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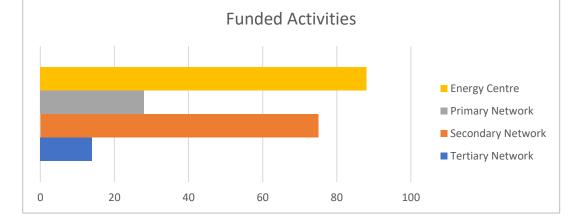
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HNES Demonstrator – Capital projects

Capital grants	37
Communal networks	6
District networks	31
Total connections (dwellings)	17,554
Total connections (commercial)	242
Average dwellings per project	474
Average work package total cost	£202,600
Average predicted fuel use reduction (natural gas, kWh)	519,100
Average predicted fuel use reduction (electricity, kWh)	73,200
Total cost of measures (all projects)	£7,495,300





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Introduction to HNES

Louise Singleton HNES Programme Manager (Gemserv)



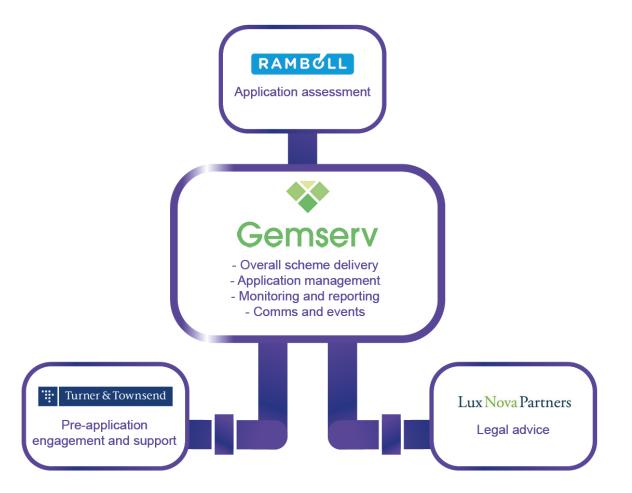








HNES Delivery Partner



- Gemserv and Ramboll have already successfully delivered the HNES Demonstrator together, supporting 110 projects to claim £5M+ in grant funding
- Turner & Townsend and Lux Nova have joined the Delivery Partner team for the Main scheme



Aims and Objectives of HNES

1. Reduce carbon emissions by making heat networks more efficient

2. Reduce customer detriment to improve consumer confidence

3. Help prepare the heat network market for sector regulation and technical standards



How much funding is available?

Capital Grants

Part funding (up to but not including 50%) available for the delivery (installation) of eligible intervention / improvement measures.

Up to £30m across FY23/24 and FY24/25

Revenue Grants

Full funding available for procurement or mobilisation of external third-party support to carry out Optimisation Studies.

These studies will assess heat network projects to identify causes of sub-optimal performance and recommend costed intervention or improvement measures.

Up to £2m across FY23/24 and FY24/25

Projects can apply for funding across both financial years, but must spend all funding within each allocated financial year



Who can apply?

Operators of existing district heating networks or communal heating systems Public sector, private sector or third sector organisations

Heat networks situated in England or Wales Legal entities, with authority to sign-off investment decisions for the heat network they are responsible for



Funding round closing dates

Round	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24
Round 1	*	Friday	31 st March	2023											
Round 2			🛧 F	riday 19 th N	/lay 2023										
Round 3					★ Frid	ay 7 th July	2023								
Round 4						*	Friday 25	^{5th} August 2	2023						
Round 5								🛧 Fr	iday 13 th O	ctober 202	3				
Round 6												Friday :	2 nd Februar	y 2024	
Round 7											Friday 22	2 nd March 2	024 ★		
Round 8													Friday 10 ^t	^h May 2024	4 ★



HNES Eligibility Criteria



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What capital grants will fund

- Category 1: Energy centre / plant room
- Category 2: Primary / secondary distribution network
- ✓ Category 3: Tertiary network
- ✓ Category 4: Metering

Further details on what is included in these categories can be found in our <u>HNES Guidance for Applicants</u> document

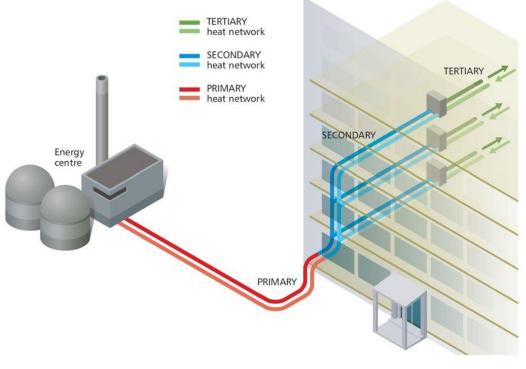


Image: Heat networks CP1: 2020



What capital grants won't fund

- Any capital costs already incurred prior to an HNES award having been made
- Any capital costs **unrelated** to heat network infrastructure, e.g., improvements to building fabric
- Any costs relating to **engagement activities** (e.g., stakeholder management)
- Energy centre / plant room costs for replacement of the primary heat generation source
- Tertiary systems costs for buying or replacing heat emitters (e.g., radiators) within buildings or dwellings
- X Metering costs for metering that is required under the **HNMBR**



What revenue grants will fund

- Optimisation Studies delivered according to the outline specification provided by HNES, including:
- ✓ Baselining of network performance and KPIs
- ✓ Data capture/analysis and site visit(s)
- ✓ Investigation of, and reporting on, network performance
- Development of a range of intervention measure packages for addressing areas of sub-optimal operation, including calculated impacts on KPIs
- Cost and cost-effectiveness assessment of intervention measure packages
- Recommendations reporting
- Completion of an Optimisation Study Outputs Annex



What revenue grants won't fund

X Work already commissioned or incurred before the application

Internal applicant staffing or secondment staff or charged agencies within applicant organisations, including for project management of the third party support / Optimisation Studies

Construction, operation and maintenance of a heat network



Monitoring and Reporting requirements

- A condition of grant funding is regularly submitting Monitoring and Reporting (M&R) returns
- Following feedback from the Demonstrator, this process has been simplified
- Project progress updates, risk and issues, budget drawdown etc. will be provided monthly
- Progress against benefits and KPIs for capital projects will be provided quarterly, covering the three months prior
- M&R returns are essential to track whether grant funding will be spent and also to ensure the Aims of HNES are being met









Where to find help and support

- Further detail on the scheme can be found in our <u>HNES</u> <u>Guidance for Applicants</u> document
- If you have a general enquiry about HNES, would like to request an application form or want to be added to our mailing list, please email <u>hnes@gemserv.com</u>
- If you have project specific questions, our Relationship Managers can help. Email <u>hnes.support@gemserv.com</u> with your question or to request a meeting



Heat Network Videos

Joel Hamilton Heat Network Specialist (BEIS)











Guidance Videos and Documents

- Share knowledge of common problems
- Provide accessible content
- Upskill the sector
- Video presentations aimed at heat network owners and operators
- Documentation provides greater detail







Guidance Video Presentations Content

- Introduction to heat networks
- Reduce network flows
- Reduce return temperatures
- Reduce flow temperatures
- Improve water quality
- Reduce complexity & risk
- Enhance insulation
- Improve plantroom efficiency





Guidance Documentation

- How to conduct an optimisation study
 - Detailed explanations
 - High level information which can be used for scoping
- Case studies
- Potential:
 - How to manage optimisation work
 - Decarbonisation options and solutions









Samantha Shea

Business Development and Comms Lead (Gemserv)





Re-join us in 10 minutes for the HNES Application Seminar







HEAT NETWORK EFFICIENCY SCHEME



Department for Business, Energy & Industrial Strategy Gemserv





HNES Application Form

Georgia Kokkinou Application Assessment Lead (Ramboll)











Application form aligns to HNES Aims and Objectives

Deploy funding to improve performance of existing District and Communal networks

HNES Main objectives

OBJECTIVE 1

Reduce carbon emissions by making heat networks more efficient

OBJECTIVE 2

Reduce customer detriment to improve consumer confidence

OBJECTIVE 3

Help prepare the heat network market for sector regulation and standards



HNES application form

- Excel format
- Different forms have been developed for capital and revenue projects

Six tabs to be completed:

- A Applicant info
- **B** Project info
- C Project narrative

- **D** Baseline / Targets
- **E** Funding and procurement
- **F** Confirmations

Worksheet Status A - Applicant info INCOMPLETE B - Project info INCOMPLETE C - Project narrative INCOMPLETE D - Baseline INCOMPLETE E - Funding and procurement INCOMPLETE F - Confirmations INCOMPLETE

Workbook complete?



END OF WORKSHEET



You can check the completion status of your application in the 'Application Status' tab

Application form tabs overview

A – Applicant Info	 Applicant organisation information and parent company if relevant Contacts relating to application
	Description of the network including address
B – Project Info	 Network characteristics including proportion of dwellings that fall under the HNES definition of 'customers in need' Regulatory i.e. HeatTrust registration, HNMBR etc
	Overview of project and funding request
C – Project Narrative	 Overview of network data availability, quality and metering Overview of the rationale for the funding application to HNES in relation to Objectives 1 (reducing carbon emissions by making networks more efficient) & 2 (reducing customer detriment) Approach to dissemination information i.e. communication methods and
	 Approach to dissemination mormation i.e. communication methods and means Sub-optimal outcomes experienced

HEAT NETWORK EFFICIENCY SCHEME

Application form tabs overview

D – Baseline and Target	 Network Imported Fuel Network Energy Generation Heat Demands and Losses Economic Indicators Network Outages / Service Interruptions
E – Funding and Procurement	 Total application budget and funding request For capital application forms this is broken down into the different network areas works being applied for Procurement i.e. description, procurement milestones
F – Confirmations	 Supporting Evidence Applicant's Declaration



Supporting evidence

Capital Grants

- Evidence of application costs
- Evidence of targeted benefits
- A signed letter (or letters) confirming:
 - Applicant support for the application and works to be supported;
 - Match funding;
 - Acceptance of monitoring and reporting requirements;
 - Confirmation (where relevant) of any other subsidies relevant to the project
- A summary programme of works
- Where applicable, confirmation / evidence of eligibility of metering costs relative to HNMBR requirements

Revenue Grants

- Evidence of application costs
- A signed letter (or letters) confirming:
 - Applicant support for the application and works to be supported;
 - Match funding (if relevant);
 - Acceptance of monitoring and reporting requirements;
 - Confirmation (where relevant) of any other subsidies relevant to the project
- An outline project programme



HNES Guidance for Applicants

- The <u>Guidance for Applicants</u> document covers:
 - the application process
 - eligibility criteria
 - how applications will be scored and assessed inc. evidence / supporting documentation required
 - the monitoring and reporting obligations for successful applicants
- The HNES application form may be updated over the course of the scheme. Check you have the latest version of the form by emailing <u>HNES@gemserv.com</u>



Application Process

Sam Hales

Applicant Support and Relationship Management Lead (Gemserv)











Prior to Submitting an Application

Applicants who would like to submit an application will need to request an application form from us

Once the scheme opens, email hnes.support@gemserv.com with some details of your project and whether you'd like RM support



HNES with Multiple Projects

We **do not** intend to fund multiple applications by a single applicant where projects are considered similar in terms of engineering design/operation, indicators of sub-optimal performance and/or indicators of customer detriment.

2.

Applicants should consider the extent to which learning from a smaller number of Optimisation Studies may support, validate or enable similar work in other projects in the applicant's portfolio outside of the HNES budget envelope.



Submitting an Application

Please email <u>hnes@gemserv.com</u> to request a SharePoint Space as early as possible and at latest a week before the funding round closes to ensure you can submit.

Project Name

Organisation Name

Primary Contact Name

Primary Contact Email

Funding Round that you are applying in

If you would like to add additional users to the SharePoint Space, please provide the below details for each additional user:

Additional user's contact name

Additional user's email address



SharePoint Space

You will be given access to a dedicated space per project. If you are submitting multiple applications you will need multiple spaces.

Please email <u>hnes@gemserv.com</u> once your application is uploaded, applicants who do not notify us will not be assessed.

The space will be locked to read only once submission is complete.

If you have any issues, please contact us on <u>hnes@gemserv.com</u> as soon as possible.



SharePoint Space

lf your org please rei	anisation on member the	doesn't use is.	Microsoft	Office, y	you will be	asked to	create a	password,
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Use the upload button or drag and drop files to upload your application form and supporting evidence.



- Please DO NOT copy files directly from your organisation's SharePoint to the Gemserv SharePoint.
 - Please download the files on to your device and then upload them.



Email <u>hnes@gemserv.com</u> once your files are uploaded, assessment will only occur if you do this.



If you have issues with uploading, please restart your browser and try logging in again only opening the Gemserv SharePoint.

• Please email <u>hnes@gemserv.com</u> as early as possible if you have any issues uploading.



HNES Funding Round Closing Dates

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Round 7											Friday 22	2 nd March 2	024 ★		
Round 8													Friday 10	th May 2024	4 ★

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Application Form and Submission Q&A

Samantha Shea

Business Development and Comms Lead (Gemserv)



Assessment Process

Georgia Kokkinou Applicant Assessment Lead (Ramboll)



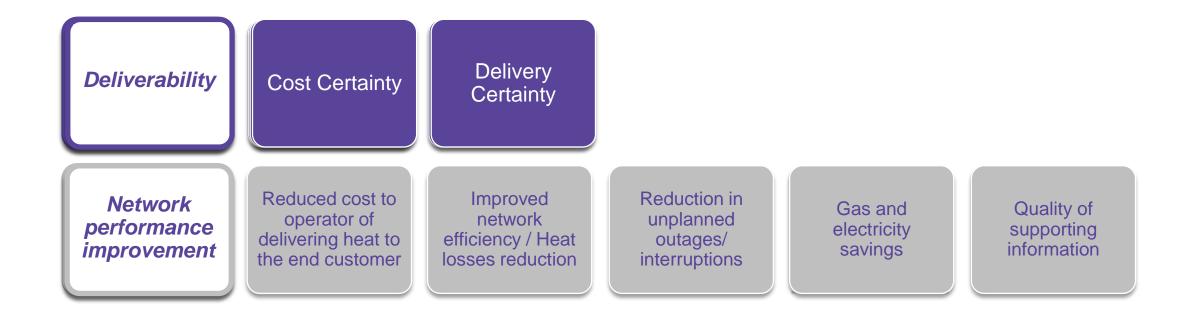






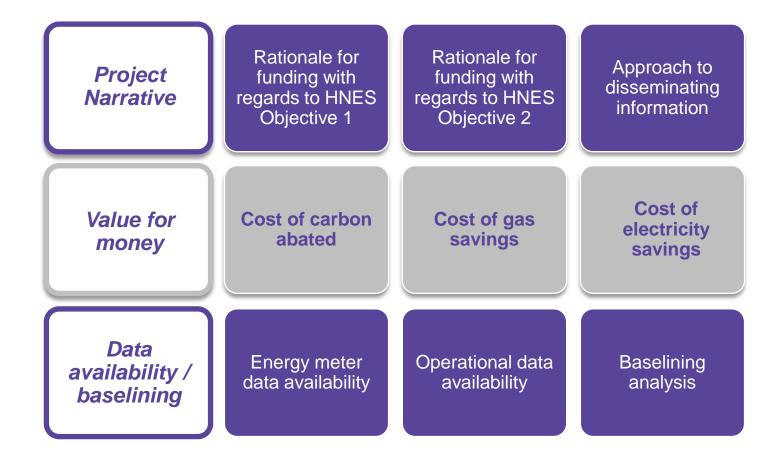


Scoring criteria (capital applications)



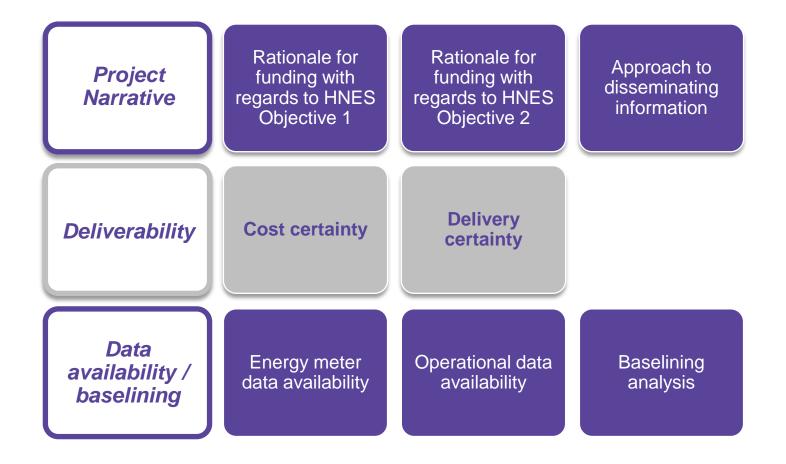


Scoring criteria (capital applications)





Scoring criteria (revenue applications)





Assessment Process and Timescales



Department for Business, Energy & Industrial Strategy







Overview from Applicant's perspective

Weeks	Description
1-6	Application assessment period, including clarification period. Submission of assessment outcomes to HNES Investment Committee
7-8	Review of assessments by HNES Investment Committee (including clarifications) leading to decision on funding award recommendations
9	BEIS internal approvals of funding recommendations
10	Confirmation to non-Local Authority applicants of successful / unsuccessful applications, and issue of Grant Funding Agreements to successful applicants
10-14	Further approval process for Local Authority applicants. Confirmation to Local Authority applicants of successful / unsuccessful applications, and issue of Memorandum of Understanding to successful applicants



Clarifications

- From an Applicant's perspective, the application is completed when the application form and accompanying supporting evidence are submitted to HNES
- During the assessment period (Weeks 1-6), clarifications may be raised to which the Applicant must respond
- It is essential that the Applicant is available over this period to ensure full and timely responses to any clarifications can be provided



Funding Drawdown

Sam Hales

Applicant Support and Relationship Management Lead (Gemserv)



Department for Business, Energy & Industrial Strategy





HNES Funding

Funding is issued for each financial year and cannot be carried over. Final drawdown for grant funded works must be made in advance of either:

Friday 29th March 2024 for spend in Year 1 (FY23/24) Friday 31st March 2025 for spend in Year 2 (FY24/25)



HNES Funding

Non Local Authorities

• Cash drawdown, for part or all of the grant, can be made at the point the successful applicant is able to evidence spend, all conditions precedents for funding have been met and the applicant can evidence payment to contractors up to the value of the grant requested.

Local Authorities

 Cash drawdown for the entire grant can be made once signed grant paperwork (Memorandum of Understanding and grant claim form) has been received, or at the point all Conditions Precedents (if relevant) attached to the award have been met.





Samantha Shea

Business Development and Comms Lead (Gemserv)



Pre-application Support

Chris Forster Pre-application Support Lead (Turner & Townsend)











Pre-application Support

Prospective applicants can access front end support from our Application Support team to discuss the application process, or to begin their application for submission.

The support team can provide:

- Initial contact and issue of application form
- 1-2-1s with dedicated Relationship Managers to discuss application
- First pass review of application with feedback
- Responding to applicant enquiries prior to submission
- Signposting to applicants that they are ready to submit



Relationship Managers

All applicants can access a Relationship Manager should they require it. RMs are here to act as point of contact for pre-application support and to answer any initial queries that applicants may wish to ask.

If an applicant requests 1-2-1 sessions, RMs can discuss:

- Your prospective project(s)
- Provide any clarifications needed on the application process and eligibility
- Assess project readiness to submit an application
- Advise on any additional project considerations

We can provide support and guidance but not specific advice on how to improve assessment scores If you would like to speak to an RM at any point please request this via <u>hnes.support@gemserv.com</u>



Neil Smillie



Angela Rose



Billy Cliffen



Chris Forster



- The <u>HNES Guidance for Applicants</u> covers scheme eligibility, assessment criteria, funding requirements, evidence, supporting documents and the application process
- Scheme application forms can be requested at <u>hnes@gemserv.com</u>
- We would recommend that any applicant seeking to apply for the scheme reviews the guidance document and engages us with any queries or clarifications they need at <u>hnes.support@gemserv.com</u>



Coming up...

Events

- The Heat Network (9th February) Gemserv / THN
- HNES Consultant Event (21st February) Gemserv
- Sharing findings from the HNES Demonstrator (24th February) Guru Systems

Key dates

• HNES funding round 1 closes (31st March)



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