

# Sewer Heat Recovery Application

Please complete this application in its entirety. Provide supplemental documentation of all assumptions and criteria used to answer the questions.

A checklist of additional required documents is included toward the end of this document. Please refer to the [WTD Standard Design Guidelines](#) for specifics about required documentation.

Applications without complete responses and supporting documentation will be considered “unprepared” and disqualified from selection.

Project Sponsor (Company) Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

\_\_\_\_\_

Partner Company Name(s): \_\_\_\_\_

\_\_\_\_\_

Partner Address(es): \_\_\_\_\_

\_\_\_\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

\_\_\_\_\_

Contact Name for this application: \_\_\_\_\_

Contact Name Email Address: \_\_\_\_\_

Contact Name Phone Number: (    ) \_\_\_\_\_ - \_\_\_\_\_

I/we have reviewed the terms of the contract document “Agreement for Sale and Use of Thermal Energy from King County Wastewater” and understand that the terms have been specifically approved by the King County Council and as such are non-negotiable. Yes\_\_\_\_\_

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## Sewer Heat Recovery Application and Submission Checklist

Estimated Total Project Cost: \$ \_\_\_\_\_

System Heat Demand \_\_\_\_\_ Annual Ton-hours

Future Heat Demand @ year 30 \_\_\_\_\_ Annual Ton-hours

System Cooling Demand \_\_\_\_\_ Annual Ton-hours

Future Cooling Demand @ year 30 \_\_\_\_\_ Annual Ton-hours

Retrofit \_\_\_\_\_ New Construction \_\_\_\_\_

### Square Footage of Project that is:

Residential \_\_\_\_\_ Sq. Ft.

Commercial \_\_\_\_\_ Sq. Ft.

Institutional \_\_\_\_\_ Sq. Ft.

Industrial \_\_\_\_\_ Sq. Ft.

Other \_\_\_\_\_ Sq. ft.

Explain \_\_\_\_\_  
\_\_\_\_\_

### Anticipated flow withdrawal rate from sewer:

Minimum \_\_\_\_\_ Gallons/ minute

Average \_\_\_\_\_ Gallons/ minute

Maximum \_\_\_\_\_ Gallons/ minute

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## Equity and Social Justice

King County is prioritizing racial justice as part of our government work overall and implementation of our Equity and Social Justice (ESJ) Strategic Plan. We are intentionally leading with racial justice to confront the historical and racial inequities that continue to exist in our community and our organization. These racial inequities affect all of us and our ability to live well and thrive.

Will your building be a low income/equal housing opportunity?

Yes\_\_\_\_\_ No\_\_\_\_\_

Will you be using a Women/Minority Owned Firm for consultant or contracting work?

Yes\_\_\_\_\_ No\_\_\_\_\_

If yes, please name the firm(s) that you intend to use and estimate percent for each category:

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Estimated percentage of the total contract value to Minority Owned (\*MBE) firms %\_\_\_\_\_  
 (includes firms that are owned by minority women or MWBEs)

Estimated percentage of the total contract value to Women Owned (\*WBE) firms %\_\_\_\_\_

Overall Contract Aspirational M/WBE Goal %\_\_\_\_\_

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# Sewer Heat Recovery Checklist

## Feasibility

- Preliminary site plan will include the following:
  - Site plan and vicinity map that depict existing site features and boundaries.
  - Site and utility plans that depict existing utilities (above and below ground), buildings, roadways, etc.
  - Site plan that depicts new structure footprints, locations, and orientation onsite.
- Estimated System heating and cooling demand evaluation.
- Estimated 30-year demand predictions with projections in five-year increments.
- Estimated low, average, and high withdrawal rate evaluation.
- List of assumptions and criteria for a feasibility study (design data and criteria).
- Risk Register for your project with mitigation and avoidance strategies identified.
- Scope of Project.
- Schedule with major milestones.
- Estimate at Completion (EAC).

## System Design

- 30% Engineering Design Package

Design package will include the following to indicate 30%

- How intended system will interact with King County's Wastewater Treatment process.
  - P&IDs depicting mechanical equipment, piping, and I&C devices and panels
  - Routing and location of connection to existing conveyance line shown
- Mechanical Plans and Sections that depict location of major equipment and major piping. alignments to verify clearances and general configurations. Plans should indicate proposed equipment maintenance features (i.e., overhead crane and monorails, hatches, pads, etc.)
- HVAC/Plumbing Plans that depict location of major equipment and major piping alignments.
- Plans and profiles of pipelines that locate major utilities and piping corridors.
- Structural plans that establish foundation type and depict the preliminary foundation layout. Foundation plans adequate to confirm approach in compliance with geotechnical requirements. General arrangement floor plans and section drawings coordinated with the architectural plans.
- Geotechnical data report containing historical data, boring plan, soil borings and soil resistivity.



- Draft Geotechnical interpretive reporting containing recommendations for underground conditions, foundations, ground support, groundwater control and additional geotechnical investigations as deemed necessary.
- Seismic considerations.
- Interactions downstream and upstream of the access points.
- Assumptions and criteria used for the design.
- Estimated Solids balance – explain how your system will handle potential solids.
- Preliminary equipment list.
- Estimated Size and location of all control panels and other human-machine interfaces.
  - Proposed locations for King County meters and flow/ heat monitors

—END OF DOCUMENT—