

Sewer Heat Recovery Application

Please answer the questions complete this application. Provide supplemental documentation of all assumptions and criteria used to answer the questions. A checklist of additional required documents is included at the end of this application. 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** _____

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

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:

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	%

If you did not check Yes to either of the questions above and your project intends to have a different ESJ nexus, provide a maximum one (1) page narrative outlining specific actions your firm will commit to taking and the expected outcomes during the implementation of the Scope of Work that align with the King County ESJ Strategic Plan. Please reference the **ESJ Strategic Plan** (links provided below) for more information.

ESJ nexus during construction:

ESJ nexus during operation of your building or facility:

ESJ Resources

[King County ESJ Strategic Plan](#)

[King County Determinants of Equity](#)

[Washington State Office of Minority & Women's Business Enterprises Directory](#)

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Application Submittal Checklist

Feasibility

- ☐ Preliminary site plan which 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 feasibility study (design data and criteria)
- ☐ Risk Register for your project with mitigation and avoidance strategies identified
- ☐ Scope of Project
- ☐ Schedule with major milestone
- ☐ 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.)

System Design continued

- ☐ 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 preliminary foundation layout. General arrangement floor plans and section drawings coordinated with architectural plans
- ☐ Interactions downstream and upstream of the access points
- ☐ Assumptions and criteria used for the design
- ☐ Estimated Solids balance
- ☐ 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

Construction

- ☐ Easements owned by King County
- ☐ Right of Ways that impact King County equipment
 - Site map if a KC ROW is impacted
- ☐ Commissioning Plan

Operations & Maintenance

- ☐ Control and operating strategies
- ☐ O&M Manual
- ☐ Method and Procedure for King County access

END OF DOCUMENT