

City of Tenino

149 Hodgen Street South
Tenino, WA 98589

City Council Meeting
Tuesday, May 26, 2020 at 7:30 PM

Agenda

WORK SESSION

1. Councilmember Watterson has been in discussion with two firms who have presented us with a grant opportunity that would set the stage for a bio-digester operation at our Wastewater Treatment Plant. He wishes to emphasize that:

 1. It's not a grant that the City will receive; it is a grant that the companies will use to do work on behalf of the City. The companies do, however, need a letter of support from the City to proceed with the grant application.
 2. The State of Washington has what is called an Energy Savings Performance Contracting (ESPC) program by which we sign an agreement with the State to use a predetermined contractor, which in this case, would be MacDonald-Miller. They would manage the project and have set processes they must do to be a part of the program.

CALL TO ORDER

AGENDA APPROVAL

CONSENT CALENDAR

2. Payroll EFT's in the amount of \$29,831.63 and Claims Checks #29122 through #29136 and other EFT's in the amount of \$14,664.52 for a grand total of \$44,496.15.

3. LCB Applications & Renewals

Applications: None

Renewals: Brother's Pizza

Mill Lane Winery: Has not filed B&O returns for the past three quarters

PRESENTATIONS

4. Timberland Regional Library Executive Director Cheryl Heywood will present the "State of The Library" Address to the Tenino City Council.

OLD BUSINESS

5. The current agreement for the extension of the City's sewer and water mains to the Ag Park Property would see the mains ending at the edge of the property. Gibbs & Olson proposes to sub-contract with SCJ Alliance to provide the Engineering documents that will be required to

bring service lines onto the property for the purpose of distributing sewer and water service to each of the proposed building locations on the site. Proposed Amendment Number 2 provides the mechanism for the City to authorize Gibbs & Olson to enter into such a subcontracting agreement and for the City to pay Gibbs & Olson for those services. Proposed Amendment Number 2 has been reviewed by City Attorney Hughes and he has no objections.

Recommended action: Move to authorize Mayor Fournier to execute Amendment Number 2 as presented.

NEW BUSINESS

- [6.](#) MacDonald-Miller and Energy Efficiency Finance Corporation have presented the City with an opportunity to participate in a bio-digester project.

Recommended action: Move authorize Mayor Fournier to issue a letter of support and to enter into an agreement with the State of Washington to utilize the services of MacDonald-Miller in pursuit of the opportunity.

ADJOURNMENT

File Attachments for Item:

Councilmember Watterson has been in discussion with two firms who have presented us with a grant opportunity that would set the stage for a bio-digester operation at our Wastewater Treatment Plant. He wishes to emphasize that:

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U.S. Department of Energy

WATER RESOURCE RECOVERY PRIZE



U.S. DEPARTMENT OF ENERGY



Official Rules

March 2020

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Water Resource Recovery Prize: Official Rules Document

The U.S. Department of Energy (DOE) Water Resource Recovery Prize will be governed by this official rules document, which establishes the rules and requirements for the prize. The Prize Administrator and DOE reserve the right to modify this Official Rules document if necessary and will publicly post any such notifications as well as notify prize participants.

Phase 1: Important Dates

Phase 1 Submission Open: January 29, 2020

Phase 1 Submission Close: May 28, 2020

Phase 1 Winner Notification: June 29, 2020

Phase 2: Important Dates

Specific requirements and official rules for Phase 2 submissions will be released later, but important milestone dates are shown here.

Phase 2 Submission Open: August 12, 2020

Phase 2 Submission Close: August 12, 2021

Phase 2 Winner Notification: September 9, 2021

MODIFICATIONS	DATE
<ol style="list-style-type: none"> All material modifications to the Prize are HIGHLIGHTED in the body of the Rules Document All dates have been consolidated on Page 2. 	April 6, 2020

Executive Summary

The DOE Advanced Manufacturing Office (AMO) is launching a two-phased prize competition with the goal of accelerating the transition from conventional wastewater treatment to a model of resource recovery from municipal wastewater. Water resource recovery facilities (WRRFs) recover valuable resources, such as energy, water, and nutrients, to help lower the ultimate cost of wastewater treatment.

The Water Resource Recovery Prize is part of a larger effort known as the Water Security Grand Challenge, which is a White House-initiated and DOE-led framework to advance transformational technology and innovation to meet the global need for safe, secure, and affordable water. More information about the Water Security Grand Challenge is available at <https://www.energy.gov/eere/water-security-grand-challenge>. The prize also supports the U.S. Environmental Protection Agency's Water Reuse Action Plan (<https://www.epa.gov/waterreuse/water-reuse-action-plan>).

The Water Resource Recovery Prize focuses on the Water Security Grand Challenge goal of doubling resource recovery from WRRFs by 2030.

In Phase 1, teams will submit:

- Two high-level facility engineering schematics (i.e., diagrams for before and after implementation of the proposed resource recovery technology/strategy)
- A business case demonstrating improvement relative to the existing baseline conditions
- An accompanying technical description that demonstrates the potential for cost-effectiveness and viability of their resource recovery plan.

At the end of Phase 1, DOE anticipates selecting as many as 10 winning teams for cash prizes of \$50,000 each.

Teams selected during Phase 1 are eligible to participate in the second phase of the competition. During Phase 2, competitors will be expected to provide a more detailed and validated technical and financial analysis that demonstrates the viability of the proposed technologies. DOE expects to provide teams 1 year from Phase 2 release date to submit final Phase 2 materials. At the conclusion of Phase 2, DOE expects to select no more than two teams that will receive \$250,000 cash prizes. Specific rules governing Phase 2 submissions will be released at the conclusion of Phase 1—[See Table of Important Dates on Page 2](#).

Introduction

Water is a critical resource for human health, economic growth, and agricultural productivity. The United States has historically benefitted from access to low-cost water supplies, but challenges for freshwater supplies could threaten U.S. economic competitiveness and water security.

Through this prize, DOE is seeking novel systems-based solutions from multidisciplinary teams to implement resource recovery at small- to medium-sized WRRFs. DOE expects at least one WRRF will be a part of any successful submission. The WRRF must provide a letter of commitment from an individual authorized to represent the facility. Such letters may be subject to verification by the prize administrator.

For purposes of this competition, terms are defined as follows:

- Recovered wastewater resources include, but are not limited to, energy that can be used on-site or sold; nutrients, such as phosphorous and nitrogen, that can be used as fertilizer; and clean water that can be reused for agricultural, industrial, and potable purposes.
- Multidisciplinary teams consist of a small- to medium-sized WRRF or a network of WRRFs, technology developers (e.g., engineering and design firms, product vendors, and inventors), resource customers (e.g., farmers, electric and gas utilities, and users of reclaimed water), and any other potentially relevant stakeholders (e.g., academic researchers, regulators, business/financial interests, local governments, and nonprofit organizations) to develop holistic community- or watershed-based resource recovery plans for their respective water resource recovery systems.
- Small- to medium-sized WRRFs are facilities that treat no more than 50 million gallons per day, on average.

Background

Resource recovery occurs at WRRFs across the country. Although many sizes of facilities can recover resources, recovery is often most cost-effective at the largest facilities. This prize competition seeks to stimulate further resource recovery among small- and medium-sized facilities. The competition is seeking creative system-wide solutions that link resource providers with customers. The competition seeks to identify coalitions of partners that may not have collaborated absent a financial incentive, considering the following key concerns:

- WRRFs purchase about \$2 billion of electricity each year¹ and face more than \$200 billion in future capital investment needs to meet water quality objectives.² These expenses can stress municipal budgets. For example, energy consumption at WRRFs can account for one-third or more of municipal energy

¹ Environmental Protection Agency (EPA), *Clean Watersheds Needs Survey 2012, Report to Congress*. January 2016. https://www.epa.gov/sites/production/files/2015-12/documents/cwns_2012_report_to_congress-508-opt.pdf.

² This electricity dollar value is derived from electricity consumption estimates by C. Arzbaeher, K. Parmenter, R. Ehrhard, and J. Murphy, *Electricity Use and Management in the Municipal Water Supply and Wastewater Industries* (Palo Alto, CA: Electric Power Research Institute and Water Research Foundation, 2013), <https://www.waterrf.org/research/projects/electricity-use-and-management-municipal-water-supply-and-wastewater-industries>.

bills.³ Energy costs are expected to increase over time⁴ and affect affordability of water for businesses and consumers.⁵

- Disposal of residual biosolids from water treatment is another significant cost for municipalities. WRRFs can address these challenges by recovering resources and turning them into marketable products. And doing so can create new revenue streams for upgrading water treatment infrastructure, and particularly in rural communities, can reduce nutrient pollution and provide sources of alternative water supplies.
- Recoverable resources include energy that can be used on-site or sold, nutrients such as phosphorous and nitrogen that can be used as fertilizer, and clean water that can be reused for agricultural, industrial, and potable purposes. When the value of the recovered resources more than offsets the cost of recovery, the overall cost of wastewater treatment is reduced.
- Resource recovery contributes to system-level energy efficiency because recovering energy from wastewater reduces the amount of grid electricity required to operate a wastewater treatment plant. Moreover, recovered water (i.e., treated wastewater) can offer a substitute for water sources with a higher level of embedded energy (including desalinated water and water that is conveyed over a long distance) for industrial, agricultural, and municipal use. Recovered nutrients (e.g., nitrogen and phosphorus) can be less energy-intensive substitutes for fertilizer on agricultural land.

To make progress on the goal of doubling resource recovery from municipal WRRFs, the prize competition seeks to increase resource recovery from these plants across the United States. The prize is intended to target small- to medium-sized facilities (i.e., those with flows of up to 50 million gallons per day), as larger facilities are more likely to already be engaged in or developing resource recovery strategies.

³ EPA, *Water and Energy Efficiency at Utilities and in the Home*, <https://www.epa.gov/sustainable-water-infrastructure/water-and-energy-efficiency-utilities-and-home>.

⁴ Arzbaecher et al.

⁵ DOE. *Water and Wastewater Annual Price Escalation Rates for Selected Cities across the United States* (U.S. Department of Energy, September 2017), <https://doi.org/10.2172/1413878>.

Prize Phases

Important dates and a description of milestones for the Water Resource Recovery Prize are summarized in Figure 1.

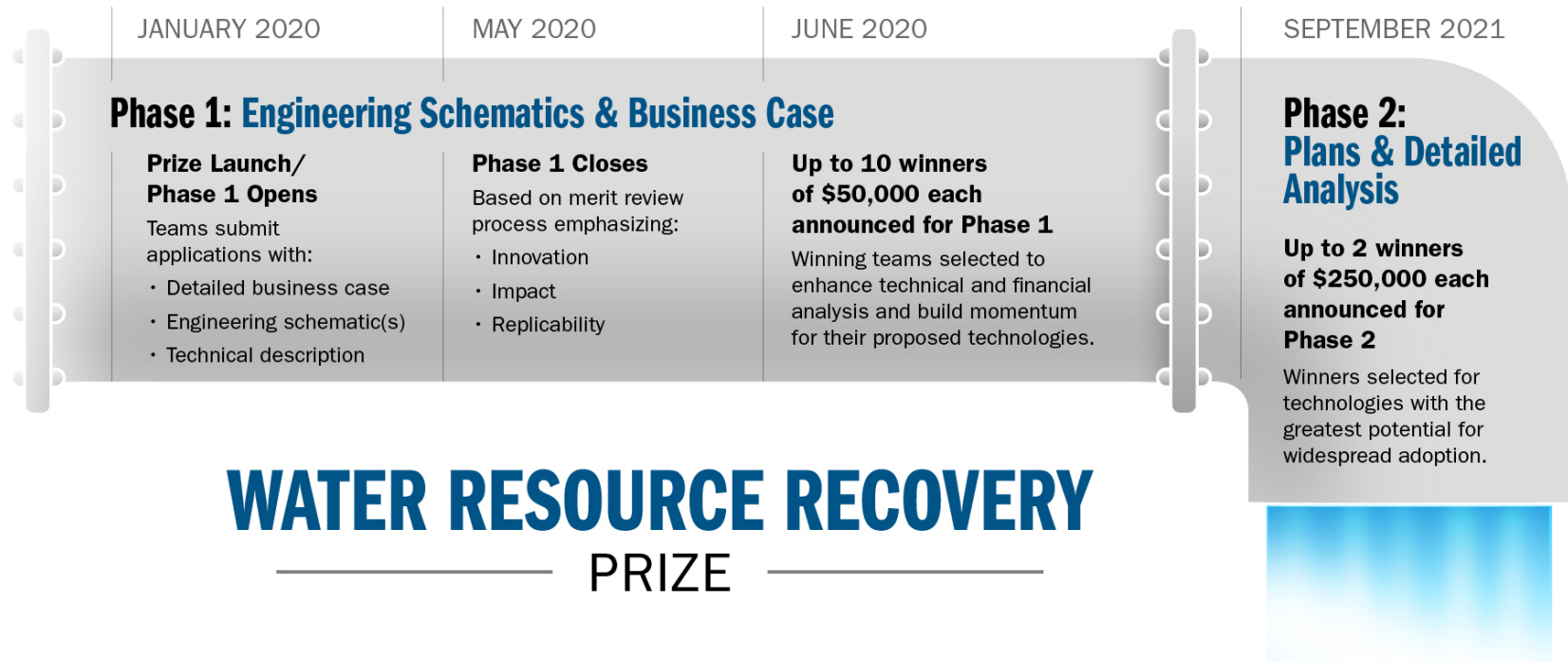


Figure 1. Updated Prize competition schedule

Phase 1: Engineering Schematics and Business Case

In the first phase of the competition, teams will identify a problem or opportunity with respect to resource recovery. Teams are required to submit two high-level (i.e., one-page) facility engineering schematics that (1) characterize the existing operating conditions of the submitting WRRF or WRRFs and (2) define how the proposed new technology or process change would affect the facility configuration and operations. In addition, applicants are required to submit a business case that demonstrates improvement over the existing baseline conditions, as well as an accompanying technical description, which together demonstrate the potential for cost-effectiveness and viability of their resource recovery plan.

Successful plans should demonstrate how the approach (1) reaches the levels targeted by applicants as resource recovery metrics and (2) contributes to energy efficiency at the facility and/or system level, as discussed in the below sections. Plans will also be judged on their innovation and replicability.

DOE anticipates selecting up to 10 winning teams for cash prizes of \$50,000 each at the end of Phase 1. DOE may also publish the selected teams' plans (unless otherwise marked per Paragraph 10 of the appendix on a public-facing website to provide potential wastewater treatment recovery strategies that other wastewater treatment facilities might adopt.

Problem or Opportunity and Proposed Solution

Teams should clearly identify a problem or opportunity with respect to resource recovery and their innovative solution. The rationale for the solution should also be explained. Teams should describe the expected impact at their facility and the potential for transferability of the idea to other facilities.

Engineering Schematics

Teams should include two facility engineering schematics or process flow diagrams (e.g., Figure 1) to provide a technological context for the proposed water resource recovery effort. The teams should define the current state of operations of the WRRF—under both normal and peak/surge operating conditions—as well as its baseline performance with respect to a wide range of wastewater treatment parameters, including but not limited to those listed in Table 1.

Table 1. Wastewater Treatment Parameters

Operational Parameters	Wastewater Parameters	Resource Recovery Parameters
Flow rate	Influent volume	Phosphorous generated
Type of reactor	Biochemical oxygen demand	Nitrogen generated
Reactor volume	pH levels	Biosolids volume
Solids retention time	Total suspended solids (influent/inert/effluent)	Biogas volume
Type of aerators	Temperature	Usable water
Speed of aerators Elevation of facility	Ammonia concentration	Energy consumed/recovered Other resources recovered

When combined with a technical description, the two facility engineering schematics—one for before and one for after implementation of the proposed resource recovery technology/strategy—will help reviewers assess the technical performance and viability of the proposed technologies. An effective “after” schematic must incorporate any pathways or processes intended to recover resources and how they relate to the existing WRRF infrastructure. In effect, the resource recovery technologies would be displayed as inserts or additions to the standard treatment process. In addition, the schematics must be accompanied by a table that summarizes the proposed resource recovery efforts (e.g., Table 2).

Table 2. Summary of Proposed Resource Recovery

Resource	Current Recovery Level	Improvement Target	Unit of Measure
Energy: Electricity			
Energy: Thermal			
Biogas			
Usable Biosolids			
Usable Recovered Water			
Phosphorus			
Nitrogen			
Other			

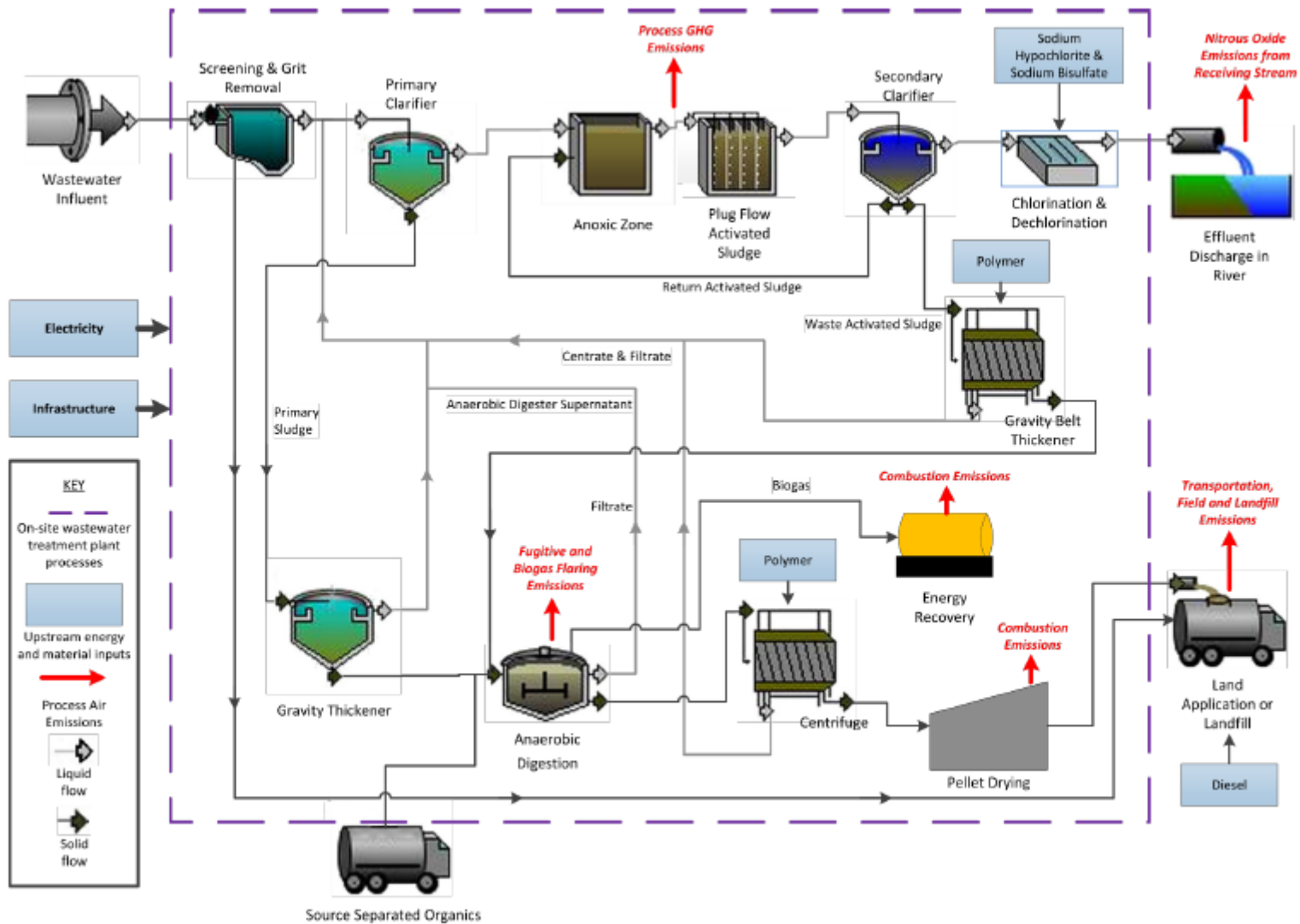


Figure 2. Sample engineering schematic/WRRF process flow diagram

Source: U.S. EPA Office of Research and Development, Life Cycle Assessment and Cost Analysis of Municipal Wastewater Treatment Expansion Options for Food Waste Anaerobic Co-Digestion (EPA/600/R-019/094, June 2019).

See also: EPA Office of Research and Development, Environmental Life Cycle Assessment and Cost Analysis of Bath, NY Wastewater Treatment Plant: Potential Upgrade Implications (EPA/600/R-17/207, June 2017, Figure 2.3 and 2.4) Water Environment Research Foundation, A Guide to Net-Zero Energy Solutions for Water Resource Recovery Facilities (2015).

Business Case

In general terms, a business case is a justification for a proposed project or undertaking on the basis of its expected commercial benefit relative to existing baseline operating conditions. A business case details the rationale to convince a decision maker to approve the investment recommendation or decision. The business case is particularly important to the Water Resource Recovery Prize, because simply recovering a resource is not enough for small- and medium-sized WRRFs—something of value needs to be created. Facilities need to consider the technological factors at the source as well as the midstream and downstream needs of their partners and ultimate “customers.”

Applicants are encouraged to depict their business case based on Table 3, but an alternative format that contains the same key elements may be submitted.

Team Composition

Applicants should identify their team members and their affiliations, and they should summarize team members’ roles and responsibilities. Team member’s experience and qualifications should also be summarized. To increase their chance of success, applicants should also provide a strategy to further build relationships with customers, partners, and other stakeholders.

Table 3. Generic Business Case Structure

<p>Key Partners</p> <ul style="list-style-type: none"> • Who are our key partners and suppliers of goods and services? • What are their roles in the resource recovery process? • What other stakeholders affect our costs? <p>_____</p> <p>Examples</p> <ul style="list-style-type: none"> - Public authorities/utilities - Regulators - Engineering and design interests 	<p>Key Activities</p> <ul style="list-style-type: none"> • Which key activities are required for resource recovery? <p>_____</p> <p>Examples</p> <ul style="list-style-type: none"> - Production - Design - Construction - Permitting/approval 	<p>Value Propositions</p> <ul style="list-style-type: none"> • What products and services are offered? • What customer needs are satisfied? • What scale of resource recovery should be pursued? <p>_____</p> <p>Examples</p> <ul style="list-style-type: none"> - Primary supplier - Cost reduction - Risk reduction/resiliency 	<p>Customer Relationships</p> <ul style="list-style-type: none"> • What type of relationships exist with customers? • Which ones are already established and need to be developed? <p>_____</p> <p>Examples</p> <ul style="list-style-type: none"> - Personal relationships - Relationships with communities 	<p>Customer Segments</p> <ul style="list-style-type: none"> • Who are our most important customers and potential customers? <p>_____</p> <p>Examples</p> <ul style="list-style-type: none"> - Commercial - Agricultural - Electric utilities
<p>Cost Structure</p> <ul style="list-style-type: none"> • What are the most important capital and operating costs? • Which costs are associated with converting, processing, and delivering resource products? 		<p>Revenue Streams</p> <ul style="list-style-type: none"> • Which resource products are of most interest to our potential customers? • How much are our customers really willing to pay? • How much does each revenue stream contribute to overall revenues? • What other value do we bring to other stakeholders? • Are there other benefits that are difficult to monetize that should also be considered? 		

Phase 2: Plans and Detailed Analysis

Only teams selected during Phase 1 will be eligible to compete in Phase 2. More-specific rules governing Phase 2 submissions will be released at the conclusion of Phase 1 (See Table of Important Dates on Page 2). And DOE expects to provide teams 1 year from Phase 2 release date to submit final Phase 2 materials.

Phase 2 will require the submission of detailed and technically rigorous plans that demonstrate how teams would finance and construct their resource recovery solutions, with such plans being supported by quantitative analysis and/or modeling. Successful plans will be judged by modeled achievement of resource recovery metrics as well as by contributions to energy efficiency, financial viability, technical and engineering rigor, and the broad replicability of the plan. At the end of Phase 2, as many as two teams will be selected to receive \$250,000 cash prizes.

Regarding financial viability, DOE anticipates aligning submission requirements with the application requirements of public financing programs (e.g., those from the U.S. Environmental Protection Agency's Water Infrastructure Finance and Innovation Act program and its Clean Water State Revolving Fund, among others) so that participants are well-positioned to apply for these and other funding sources.

Quantitative metrics will play a critical role in the judging of both phases of the competition. Applicants will need to articulate an ambitious target of resource recovery for one or more resources (e.g., energy, clean water, or nutrients). The target could be expressed as a recovery rate (e.g., the percentage of resource recovered relative to the total amount of that resource present in influent) or as an improvement rate (e.g., an increase in recovery rate over some baseline). In Phase 2, financial metrics will also be used for judging, which may include levelized cost of avoided disposal, net present value of recovery streams, life cycle costs of recovery, or other metrics. To ensure diverse solutions that apply across a range of facility types, DOE may also introduce other factors to judging, such as geographic diversity of applicants, facility size, category of resources recovered, and treatment technologies used.

Participant Eligibility

Both Phase 1 and Phase 2 of the competition are open only to:

- Citizens or permanent residents of the United States
- Private or nonfederal public entities, such as townships, tribes, corporations, or other organizations that are incorporated in and maintain a primary place of business in the United States
- A group of individuals, acting as one competitor, provided the online account holder of the submission is a United States citizen or a permanent resident.

Only small- and medium-sized WRRFs are eligible to participate. For purposes of this prize competition, DOE defines small- and medium-sized WRRFs as facilities treating no more than 50 million gallons per day, based on a calendar year average. In addition, technology developers, resource customers (e.g., farmers and electric and gas utilities), academic researchers, regulators, business/financial interests, and nonprofit organizations are eligible to compete.

DOE employees, employees of sponsoring organizations, members of their immediate families (i.e., spouses, children, siblings, or parents), and persons living in the same household as such persons, whether or not they are related, are ineligible to compete. Federal entities and federal employees, acting within the scope of their employment, are also ineligible. DOE national laboratory employees cannot compete in any stage of the prize.

Specific rules governing Phase 2 submissions will be released by the launch of Phase 2.

Rules and Requirements

How to Enter

Complete a submission package at <https://www.HeroX.com/WaterResourceRecovery> before the contest closing date.

What to Submit

The following items constitute the submissions package and must be submitted through the HeroX platform:

- Cover Page (to be made public, not scored)
- Submission Summary Slide (to be made public, not scored)
- Technical Narrative – up to 15 pages in length that includes the following components (all assumptions used in documentation, analysis, modeling and simulation must be explicitly stated):
 - Problem or Opportunity and Proposed Solution: Technical specifications of the WRRF and the interface with the proposed resource recovery technology, including details and a quantifiable projected value and/or impacts with credible supporting information.
 - Facility Engineering Schematics of the existing WRRF and the proposed WRRF after resource recovery technologies/strategies are implemented. Each schematic should not exceed one page and will not be counted towards the 15-page limit. A discussion of the technical specifications of the wastewater treatment system and the interface(s) with the proposed resource recovery technology must also be included. The schematics must be accompanied by a table that summarizes the proposed resource recovery efforts (see Table 1.1).
 - Business case explaining the proposed recovery rates, efficiency gains, prospective markets/customers, etc.
 - Team Composition: Individual member biographies (not resumes) and summary of team experience and qualifications.
- Letters of Commitment or Support

Cover Page

A cover page is to be made public but will not be scored. List basic information about your submission, including:

- Title
- Short description of the proposed solution
- Key project members (names, contacts, and links to professional online profiles)
- Your city and state
- Other partners (if any).

Submission Summary Slide

A one-page submission summary slide is to be made public but will not be scored. Convey the technical details of your proposal in a simplified format. The public-facing summary should contain technically specific details that can be understood by most people. There is no template, so feel free to present the information as you see fit. Please make any text readable in a standard printout and conference room projection.

Technical Narrative

You should address each of the following four elements. All assumptions used in documentation, analysis, modeling, and simulation must be explicitly stated. The suggested content bullets in Table 4 are provided to guide your responses: you decide where to focus your answers. The individual responses to the required elements do not have a word limit, but the aggregate response must not exceed 15 pages. You should also include two facility engineering schematic diagrams and up to four additional supporting images, figures, or graphs, as well as any letters of support or commitment from team members; these items are not included in the 15-page limit. The advisory judges will score the questions based on the content you have provided.

Table 4. Technical Narrative

Element 1: Problem or Opportunity and Proposed Solution	
<p>Suggested Content You Provide:</p> <ul style="list-style-type: none"> Detailed description of the identified problem or opportunity Proposed systems solution design and rationale Discussion of transferability to other facilities and potential impact 	<p>Judges Score Each Statement on 1-6 Scale:</p> <ul style="list-style-type: none"> The proposed approach is innovative. The proposed approach to address the identified problem or opportunity is clearly and thoroughly described. Potential impact is multiplied through transferability to other small- to medium-sized WRRFs.
Element 2: Facility Engineering Schematics and Performance Metrics	
<p>Suggested Content You Provide:</p> <ul style="list-style-type: none"> Schematic of current operations Schematic of proposed configuration including resource recovery technologies/process improvements Summary matrix and technical discussion of recovered resources 	<p>Judges Score Each Statement on 1-6 Scale:</p> <ul style="list-style-type: none"> The competitor provides a complete representation of key processes and operating parameters of the wastewater treatment facility. The proposed systems solution is technically sound. Resource recovery targets are well-described and ambitious relative to a doubling of resource recovery goal.
Element 3: Business Case	
<p>Suggested Content You Provide:</p> <ul style="list-style-type: none"> Viable business case discussing financial viability and full market potential for recovered resources 	<p>Judges Score Each Statement on 1-6 Scale:</p> <ul style="list-style-type: none"> The competitor provides a credible and comprehensive discussion of 1) capital and operating costs for the proposed systems solution and 2) potential revenue for recovered resources. The competitor describes the approach to building relationships with customers for recovered resources. The competitor discusses technical and financial risks and provides an approach to mitigate these risks.

Element 4: Team Composition	
<p>Suggested Content You Provide:</p> <ul style="list-style-type: none">• Identification of team members and a summary of roles and responsibilities• Summary of team experience and qualifications	<p>Judges Score Each Statement on 1-6 Scale:</p> <ul style="list-style-type: none">• The competitor has assembled a qualified team with credible and relevant experience.• The competitor demonstrates involvement with a range of partners appropriate to the proposed project and business case from treatment to technology deployment to marketing and sales of recovered resources.• The competitor articulates an approach to further build relationships with customers, partners, and other stakeholders to increase the chance of success.

Letters of Commitment or Support

Attach one-page letters from relevant entities (e.g., potential users of the proposed innovation) to provide context. This could include letters from partners or others you believe are critical to the success of your proposal.

How We Determine Winners

The prize administrator screens all completed submissions and, in consultation with DOE, assigns subject matter expert reviewers to independently score the content of each submission. The advisory judges will comprise federal and nonfederal subject matter experts with expertise in relevant areas. Advisory judges will review Phase 1 submissions according to the described evaluation criteria. Advisory judges and DOE reviewers may not (a) have personal or financial interests in, or be an employee, officer, director, or agent of any entity that is a registered participant in the prize or (b) have a familial or financial relationship with an individual who is a registered participant.

Expert Advisory Judge Panel Scoring: The scoring of submissions will proceed as follows (see Table 5):

- Each judging criterion will receive a score from 1 to 6, defined as follows:

1	2	3	4	5	6
Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree

- The final score from an individual judge for a submission package equals the total sum of the scores for all the bullets, multiplied by the weighting factor for that submission element (see Table 5).
- All judges' scores will then be averaged for a final score for the submission package.

Table 5. Scoring Matrix

Element	Score	Weight	Total
Proposed solution	1–6	0.2	Score x weight
Facility engineering schematics	1–6	0.3	Score x weight
Business case	1–6	0.3	Score x weight
Team composition	1–6	0.2	Score x weight
TOTAL	TBD	1.0	TBD

Interviews: AMO, at its sole discretion, may decide to hold a short interview with a subset of the Phase 1 competitors. The interviews would be held before the announcement of winners and would serve to help clarify questions the judges may have. Attending interviews is not required and interviews are not an indication of winning.

Final Determination: Final determination of winners by the director of AMO will take the advisory judges' scores and the interview findings (if applicable) into account. The director of AMO is the ultimate judge of the competition and will make the final determination of winners.

Announcement: Approximately 30 days after the contest closes, the prize administrator notifies winners and requests the necessary information to distribute cash prizes. The prize administrator will then publicly announce winners.

Program Goal Requirements

Only submissions relevant to the technology development goals, as laid out in Section 1 of this document, may compete. The prize administrator must conclude that all of the following statements are true when applied to your submission:

- The proposed solution utilizes innovative solutions to recover resources from municipal wastewater.
- The proposed solution represents an innovation that could move the sector of small- and medium-sized WRRFs beyond their current technological status.
- The proposed solution does not involve the lobbying of any federal, state, or local government.
- The proposed solution is based on sound fundamental technical principles.

Appendix. Additional Terms and Conditions

1. REQUIREMENTS

Your submission for the Water Resource Recovery Prize is subject to the following terms and conditions:

- You must post the final content of your submission or complete the submission form at <https://www.herox.com/WaterResourceRecovery> before the current phase closes. Late submissions or any other form of submission may be rejected.
- All submissions that you wish to protect from public disclosure must be marked according to the instructions in paragraph 10 of this appendix. Unmarked or improperly marked submissions will be deemed to have been provided with unlimited rights and may be used in any manner and for any purpose whatsoever.
- Submissions are not intended to be made public, except the portions of the submissions designated as public; however, see Section 10 regarding the Freedom of Information Act.
- You must include all the required submission's elements. The prize administrator may disqualify your submission after an initial screening if you fail to provide all required submission elements. Competitors may be given an opportunity to rectify submission errors that are a result of technical challenges.
- Your submission must be in English and in a format readable by Microsoft Word or Adobe Acrobat. Scanned hand-written submissions will be disqualified.
- Submissions will be disqualified if they contain any matter that, in the sole discretion of DOE or the prize administrator, is indecent, obscene, defamatory, libelous, lacking in professionalism, or demonstrates a lack of respect for people or life on this planet.
- If you click "Accept" on the HeroX platform and proceed to register for any of the phases described in this document, these rules will form a valid and binding agreement between you and DOE that is in addition to the existing HeroX terms of use for all purposes relating to this contest. You should print and keep a copy of these rules. These provisions only apply to the contest described here and no other contest on the HeroX platform or anywhere else.
- The prize administrator, when feasible, may give competitors an opportunity to fix insubstantial mistakes or errors in their submission packages.

2. VERIFICATION FOR WINNER PAYMENTS

The prize administrator will verify the identity of a participant selected to receive the prizes. Receiving a prize payment is contingent upon fulfilling all requirements contained herein. The prize administrator will notify winning participants using provided email contact information after the date that results are announced. Each participant will be required to sign and return all required payment forms to the prize administrator, within 30 days of the date the notice is sent, a completed National Renewable Energy

Laboratory (NREL) Request for Automated Clearing House ()Banking Information form, and a completed W9 form (<https://www.irs.gov/pub/irs-pdf/fw9.pdf>). At the sole discretion of the prize administrator, a winning competitor will be disqualified from the competition and receive no prize funds if (1) the person/entity cannot be contacted, (2) the person/entity fails to sign and return the required documentation within the required time period, (3) the notification is returned as undeliverable, or (4) the submission or person/entity is disqualified for any other reason.

3. TEAMS AND SINGLE ENTITY AWARDS

The prize administrator will award a single dollar amount to the designated primary submitter whether consisting of a single or multiple entities. The primary submitter is solely responsible for allocating any prize funds among its member competitors as they deem appropriate.

4. SUBMISSION RIGHTS

By making a submission and consenting to the rules of the contest, a competitor is granting to DOE, the prize administrator, and any other third parties supporting DOE in the contest, permission to use the submission consistent with this Official Rules Document. Portions of submissions that are marked as protected from public disclosure according to Section 10 will be treated accordingly. Potential uses of submissions include posting or linking to the nonprotected portions of the submission on the prize administrator or HeroX platforms, including the contest website, DOE websites, and partner websites, and the inclusion of the submission in any other media, worldwide. The submission may be viewed by DOE, the prize administrator, and judges for purposes of the contest, including but not limited to screening and evaluation purposes. The prize administrator and any third parties acting on their behalf will also have the right to indefinitely publicize the competitor's name and, as applicable, the names of the competitor's team members and organization, and the abstract for their idea on the contest website indefinitely.

By entering, the competitor represents and warrants that:

1. Competitor has not included third-party content (e.g., writing, text, graphics, artwork, logos, photographs, dialogue from plays, likeness of any third party, musical recordings, clips of videos, television programs, or motion pictures) in or in connection with the submission, unless (1) otherwise requested by the prize administrator and/or disclosed by competitor in the submission and (2) competitor has either obtained the rights to use such third-party content or the content of the submission is in the public domain without any limitations on use.
2. Unless otherwise disclosed in the submission, the use thereof by the prize administrator, or the exercise by the prize administrator or others acting on its behalf of any of the rights granted by competitor under these rules, does not and will not infringe or violate any rights of any third party or entity, including, without limitation, patent, copyright, trademark, trade secret, defamation, privacy,

- publicity, false light, misappropriation, intentional or negligent infliction of emotional distress, confidentiality, or any contractual or other rights.
3. Competitor is not and will not conduct any activity pertaining to this prize competition that would infringe on any intellectual property right of any third party, such as any patent, copyright, trade secret, or other intellectual property right, and that it has exercised reasonable efforts and diligence in making this representation and warranty. The foregoing representation and warranty shall be ongoing during the course of this competition and will be considered to have been made again and as of the date of each subsequent phase of the competition in which the competitor participates.
 4. All persons who were engaged by the competitor to work on the submission or who appear in the submission in any manner have:
 - a. Given competitor their express written consent to submit the submission for exhibition and other use in any manner and in any and all media, whether now existing or hereafter discovered, throughout the world
 - b. Provided written permission to include their name, image or pictures in or with the submission (or if a minor who is not the competitor's child, competitor must have the permission of their parent or legal guardian) and competitor may be asked by the prize administrator to provide permission in writing.

5. COPYRIGHT

Each competitor represents and warrants that the competitor is the sole author and copyright owner of the submission; that the submission is an original work of the participant or that the participant has acquired sufficient rights to use and to authorize others, including DOE, to use the submission, as specified throughout the rules, that the submission does not infringe on any copyright or on any other third-party rights of which the participant is aware; and that the submission is free of malware.

6. CONTEST SUBJECT TO APPLICABLE LAW

Contest is subject to all applicable federal laws and regulations. Participation constitutes each participant's full and unconditional agreement with the Official Rules Document and administrative decisions, which are final and binding in all matters related to the prize. This notice is not an obligation of funds; the final awards are contingent upon the availability of appropriations.

7. RESOLUTION OF DISPUTES

DOE is solely responsible for administrative decisions, which are final and binding in all matters related to the contest.

Neither DOE nor the prize administrator will arbitrate, intervene, advise on, or resolve any matters between team members or among competitors.

In the event of a dispute as to any registration, the authorized account holder of the email address used to register will be deemed to be the participant. The "authorized account holder" is the natural person or legal entity assigned an email address by an internet access provider, online service provider, or other organization responsible for assigning email addresses for the domain associated with the submitted address. Competitors and potential winners may be required to show proof of being the authorized account holder.

8. PUBLICITY

The winners of these prizes (collectively, "winners") will be featured on the DOE and NREL websites.

Participation in the contest constitutes each winner's consent to DOE's and its agents' use of each winner's name, likeness, photograph, voice, opinions, and/or hometown and state information for promotional purposes through any form of media, worldwide, without further permission, payment, or consideration.

9. LIABILITY

Upon registration, all participants agree to assume and, thereby, have assumed any and all risks of injury or loss in connection with or in any way arising from participation in this contest or development of any submission. Upon registration, except in the case of willful misconduct, all participants agree to and, thereby, do waive and release any and all claims or causes of action against the federal government and its officers, employees, and related entities for any and all injury and damage of any nature whatsoever (whether existing or thereafter arising, whether direct, indirect, or consequential and whether foreseeable or not), arising from their participation in the contest, whether the claim or cause of action arises under contract or not.

In accordance with the delegation of authority to run this contest delegated to the director of AMO, the director has determined that no liability insurance will be required of participants to compete in this competition per 15 USC 3719(i)(2) in Phases 1 and 2. The director will evaluate possible activities in the rest of the Phases and make additional determinations. Participants may be required to obtain liability insurance in future phases

10. SUBMISSION MARKING AND FREEDOM OF INFORMATION ACT

All materials submitted to DOE as part of a submission become DOE records. Any confidential commercial information contained in a submission should be designated in writing at the time of submission.

Participants are required to employ protective markings in the following manner:

The cover sheet of the submission must be marked as follows and identify the specific pages containing trade secrets or commercial or financial information that is privileged or confidential:

Notice of Restriction on Disclosure and Use of Data

Pages [list applicable pages] of this document may contain trade secrets or commercial or financial information that is privileged or confidential and is exempt from public disclosure. Such information shall be used or disclosed only for evaluation purposes. The government may use or disclose any information that is not appropriately marked or otherwise restricted, regardless of source. [End of Notice]

The header and footer of every page that contains trade secrets or commercial or financial information that is privileged must be marked as follows: “May contain trade secrets or commercial or financial information that is privileged or confidential and exempt from public disclosure.”

In addition, each line or paragraph containing trade secrets or commercial or financial information that is privileged or confidential must be enclosed in brackets.

Competitors will be notified of any Freedom of Information Act requests for their submissions in accordance with 29 C.F.R. § 70.26. Competitors may then have the opportunity to review materials and work with a Freedom of Information Act representative before the release of materials.

11. PRIVACY

If you choose to provide HeroX with personal information by registering or completing the submission package through the contest website, you understand that such information will be transmitted to DOE and may be kept in a system of records. Such information will be used only to respond to you in matters regarding your submission and/or the contest unless you choose to receive updates or notifications about other contests or programs from DOE on an opt-in basis. DOE and NREL are not collecting any information for commercial marketing.

Federal employees are subject to the nondisclosure requirements of a criminal statute, the Trade Secrets Act, 18 USC 1905. The government may seek the advice of qualified nonfederal personnel. The government may also use nonfederal personnel to conduct routine, nondiscretionary administrative activities. The respondents, by submitting their response, consent to DOE providing their response to nonfederal parties. Nonfederal parties given access to responses must be subject to an appropriate obligation of confidentiality before being given the access. Submissions may be reviewed by support contractors and private consultants.

12. GENERAL CONDITIONS

DOE reserves the right to cancel, suspend, and/or modify the contest, or any part of it, at any time. If any fraud, technical failures, or any other factor beyond DOE's reasonable control impairs the integrity or proper functioning of the contest, as determined by DOE in its sole discretion, DOE may cancel the contest.

Although DOE indicates in the Water Resource Recovery Prize phases that it may select multiple winners for each phase, DOE reserves the right to only select competitors that are likely to achieve the goals of the program. If, in DOE's determination, no competitors are likely to achieve the goals of the program, DOE will select no competitors to be winners and will award no prize money.

DOE reserves the right to request additional and/or required documentation from the competitors within a reasonable time after the close of the competition.

13. PRIZE ADMINISTRATOR

The prize administrator is the Alliance for Sustainable Energy, LLC operating in its capacity as the managing and operating contractor for NREL. AMO is the federal agency sponsor of the prize.

14. NATIONAL ENVIRONMENTAL POLICY ACT COMPLIANCE

DOE's administration of the Water Resource Recovery Prize contest is subject to the National Environmental Policy Act (NEPA) (42 USC 4321, et seq.). NEPA requires federal agencies to integrate environmental values into their decision-making processes by considering the potential environmental impacts of their proposed actions. For additional background on NEPA, see DOE's NEPA website at <http://nepa.energy.gov/>. Though NEPA compliance is a federal-agency responsibility, the ultimate decisions remain with the federal agency. Participants may be asked to provide DOE with information such that DOE can conduct a meaningful evaluation of the potential environmental impacts.

ALL DECISIONS BY DOE ARE FINAL AND BINDING IN ALL MATTERS RELATED TO THE CONTEST.

1.



EXPECT CLARITY



EXPECT EFFICIENCY



EXPECT COMFORT



Public Sector Performance Contracting

Are you...

Tired of not getting the capital funds for your critical infrastructure projects?

Disappointed with the results from your current design, low bid, build procurement process?

Unhappy with the speed of the design and construction process?

Aggravated at engineering and contracting teams pointing fingers?

The solution...

An alternative delivery method known as Energy Savings Performance Contracting (ESPC).

As a State of Washington qualified Energy Services Contractor (ESCO), MacDonald-Miller has the technology, talent and certification to make your buildings work better.

Why choose

MacDonald-Miller

as your ESCO?

- ▶ No double mark-ups. MacDonald-Miller can self-perform 95% of most scopes of work.
- ▶ The ability to maximize project budgets by fully leveraging incentives, grants and operational savings.
- ▶ Single point of accountability to provide you with a guaranteed project cost, guaranteed savings and guaranteed performance.
- ▶ 55 years of delivering mechanical and electrical services with a track record for extending the life expectancy of equipment by 30%.
- ▶ Full service design-build-optimize contractor. We are an integral part of your community with over 1,000 talented industry professionals.

"I just wanted to note my pleasure with your entire team! MacDonald-Miller makes it happen and they have bent over backwards to ensure interruptions to instruction were minimized and that we were back in operation when planned. It makes our Facilities team look really good when we have top notch contractors leading the charge!"

*Barry Holldorf
Director of Facilities & Operations
Highline College*

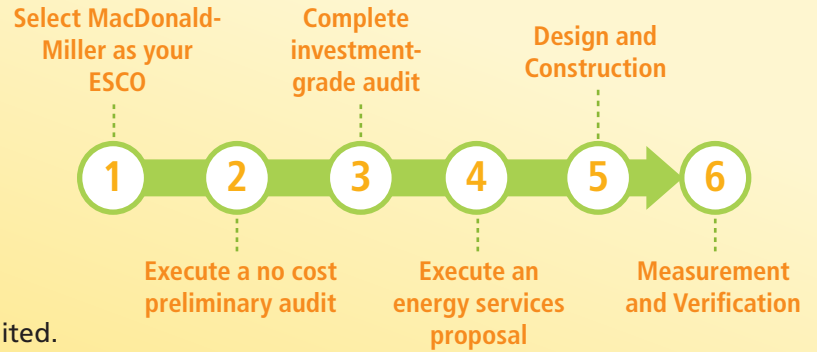


We make buildings work better

STEPS to success

1. Select MacDonald-Miller as your ESCO.
2. Execute a no cost Preliminary Audit.
3. Complete an Investment Grade Audit (IGA) to further define scopes, cost, savings and construction timelines.
4. Execute an Energy Services Proposal for the design and construction of approved scopes of work. Maximum project cost is guaranteed, and actual costs are substantiated. Any unused budget is credited.
5. Validate savings outcomes.

SEQUENCE OF AN ESCO PROJECT



HOW TO direct select MacDonald-Miller as your ESCO

Simply use the Department of Enterprise Services (DES) Inter-Agency Agreement (RCW 39.34.080, RCW 39.35C.101, RCW 39.35A).

This method allows you to:

- Accelerate replacement for end of useful life equipment and systems
- Mitigate your project risk and save time
- Streamline project design & delivery process
- Reduce operational burden on your staff
- Avoid costly and time-consuming design-low bid-build public procurement process
- Have DES serve as your 3rd-party Project Manager
- Only incur costs if the project and/or financial criteria are met

SCOPES for consideration

- Mechanical & electrical infrastructure improvements
- LED lighting retrofits
- Building envelope upgrades
- Building automaton & lighting control modernization projects
- Smart campus analytics platform & practices
- Electric vehicle charging infrastructure & renewable energy projects



EXPECT
CLARITY

EXPECT
EFFICIENCY

EXPECT
COMFORT

2.

File Attachments for Item:

2. Vouchers and EFT's for May 16 through May 26, 2020.

Consent Calendar consisting of May 13, 2020 through May 26, 2020:

- Payroll EFT's in the amount of \$29,831.63**
- Claims Checks #29122 through #29136 and EFT's in the amount of \$14,664.52**

for a grand total of \$44,496.15

**Liquor and Cannabis License Applications/
Renewals:**

**Brother's Pizza
Mill Lane Winery**

CHECK REGISTER

City Of Tenino
MCAG #: 0757

05/13/2020 To: 05/31/2020

Time: 13:33:48 Date: 05/26/2020
Page: 2

Trans	Date	Type	Acct #	Chk #	Claimant	Amount	Memo
1907	05/26/2020	Claims	5	29135	Williams- Hayward Protective Coatings	56.00	
1908	05/26/2020	Claims	5	29136	Wilson Parts Corporation	50.74	
						23,205.61	
001 General Government Fund #001						10.42	
002 Quarry Pool Fund #002						2,857.94	
101 City Street Fund #101						245.86	
310 Municipal Capital Imp Fund 310						4,010.71	
401 Water Fund						1,549.81	
402 Water Capital Imp Fund						5,260.87	
410 Sewer Fund						7,354.93	
601 SWWAIP Trust Fund							
							Claims: 14,664.52
						44,496.15	Payroll: 29,831.63

WE, the members of the City Council of the City of Tenino, Thurston County, Washington, DO
HEREBY certify that the merchandise or services listed above have been received and that the above
listed vouchers and the related checks have been reviewed and approved for payment by the Tenino City
Council.

DATED this _____ day of _____ 2020.

Clerk/Treasurer

Mayor

Councilmember

Councilmember

Councilmember

Councilmember

Councilmember

CHECK REGISTER

2.

City Of Tenino
MCAG #: 0757

05/13/2020 To: 05/31/2020

Time: 13:33:48 Date: 05/26/2020
Page: 1

Trans	Date	Type	Acct #	Chk #	Claimant	Amount	Memo
1742	05/13/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	5.00	5/12/2020
1754	05/14/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	7.50	5/14/2020
1763	05/15/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	2.50	5/14/2020
1797	05/19/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	16.25	5/15/2020
1800	05/19/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	2.50	5/16/2020
1803	05/19/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	5.00	5/17/2020
1806	05/19/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	15.00	5/18/2020
1808	05/20/2020	Payroll	5	EFT	Tyler J Baker	1,858.37	
1809	05/20/2020	Payroll	5	EFT	Veronica A Barnes	1,504.40	
1810	05/20/2020	Payroll	5	EFT	Troy LK Cannon	1,860.88	
1811	05/20/2020	Payroll	5	EFT	Samantha L Cisneros	1,814.24	
1812	05/20/2020	Payroll	5	EFT	Brent L Gibbs	1,701.22	
1813	05/20/2020	Payroll	5	EFT	John C Millard	1,836.43	
1814	05/20/2020	Payroll	5	EFT	Jason M Plaja	1,934.30	
1815	05/20/2020	Payroll	5	EFT	Maria Rodriguez	1,292.28	
1816	05/20/2020	Payroll	5	EFT	Jennifer N Scharber	1,172.01	
1817	05/20/2020	Payroll	5	EFT	Seth D Sharp	2,161.14	
1818	05/20/2020	Payroll	5	EFT	William John Stines	1,763.82	
1819	05/20/2020	Payroll	5	EFT	Robert Swain	1,891.54	
1820	05/20/2020	Payroll	5	EFT	Robert D Thornburg	1,454.01	
1821	05/20/2020	Payroll	5	EFT	Timberland Bank	7,586.99	941 Deposit for Pay Cycle(s) 05/20/2020 - 05/20/2020
1830	05/20/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	1.25	5/19/2020
1838	05/21/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	6.25	5/20/2020
1868	05/22/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	3.75	5/21/2020
1875	05/26/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	7.50	5/22/2020
1878	05/26/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	5.00	5/23/2020
1881	05/26/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	3.75	5/24/2020
1884	05/26/2020	Claims	5	EFT	Retail Lockbox Merchant Services, LLC	7.50	05/25/2020
1894	05/26/2020	Claims	5	29122	Comcast	341.96	
1895	05/26/2020	Claims	5	29123	Dragon Analytical Laboratory	315.00	
1896	05/26/2020	Claims	5	29124	Galls LLC	81.63	
1897	05/26/2020	Claims	5	29125	Gibbs & Olson Inc	7,752.93	
1898	05/26/2020	Claims	5	29126	H D Fowler Co	1,560.38	
1899	05/26/2020	Claims	5	29127	Miles Sand And Gravel Company	357.95	
1900	05/26/2020	Claims	5	29128	Northstar Chemical, Inc	750.17	
1901	05/26/2020	Claims	5	29129	Puget Sound Energy	2,376.92	
1902	05/26/2020	Claims	5	29130	Quill	274.70	
1903	05/26/2020	Claims	5	29131	Jennifer N Scharber	100.00	QH Deposit Refund
1904	05/26/2020	Claims	5	29132	John Stines	70.33	
1905	05/26/2020	Claims	5	29133	That Hose Guy	322.96	
1906	05/26/2020	Claims	5	29134	United Rentals Inc	164.10	

File Attachments for Item:

3. LCB Applications & Renewals

Applications: None

Renewals: Brother's Pizza

Mill Lane Winery: Has not filed B&O returns for the past three quarters

C091080-2

WASHINGTON STATE LIQUOR AND CANNABIS BOARD

DATE: 05/06/2020

LICENSED ESTABLISHMENTS IN INCORPORATED AREAS CITY OF TENINO
(BY ZIP CODE) FOR EXPIRATION DATE OF 20200831

	LICENSEE	BUSINESS NAME AND ADDRESS	LICENSE NUMBER	PRIVILEGES
1 .	BPB LLC	BROTHERS PIZZA AND BREW 324 SUSSEX AVE W TENINO WA 98589 9343	426060	BEER/WINE REST - BEER BEER/WINE REST - BEER
2 .	FERRIS, DEANA J FERRIS, DAN W	MILL LANE WINERY 16607 BUCODA HWY SE TENINO WA 98589 9537	409799	DOMESTIC WINERY < 250,000 LITERS FARMER'S MARKET WINE SALES

File Attachments for Item:

4. Timberland Regional Library Executive Director Cheryl Heywood will present the "State of The Library" Address to the Tenino City Council.

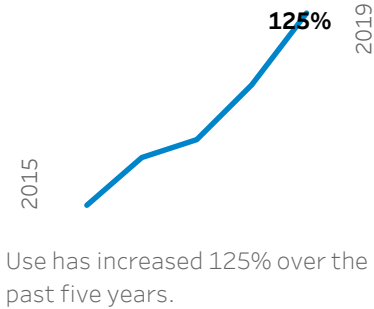
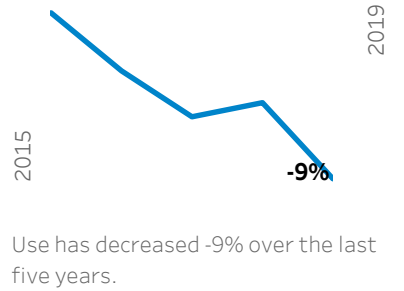


TENINO TIMBERLAND LIBRARY 2019

TENINO BORROWS

How much did Tenino patrons save in 2019 by borrowing books, movies, and other items? **\$732,470 dollars**. That's what it would have cost patrons to purchase the **33,124** items borrowed.

The library has **1,621 active library cards**, with a city population of **1,830** and an estimated service population is **7,249** residents. (Estimate based on school districts population and library card registrations).



Tenino patrons often borrow digital materials including e-books and downloadable audiobooks. While it's harder to determine savings due to the nature of licensing costs, Tenino patrons borrowed **10,673 digital items** in 2019.

TENINO EVENTS

Tenino patrons attended **157 events** in 2019 including Reptile Man, Owls of the Northwest, Movies in the Park, Family Storytimes, Jeff Evan's Magic Show, and many more.

	Events for Adults	Events for Kids and Teens	Other	Totals
Events	45	49	63	157
Attendance	1,355	820	780	2,955

TENINO INTERNET USE

2,374
hours used in 2019
(Avg. 45 hours per week)

Tenino patrons take advantage of library **public internet stations**, providing access to vital services, ability to **print 100 pages free per week**, and premium paid subscriptions to information sources like Ancestry, Consumer Reports, Reference USA, and many more.

File Attachments for Item:

5. The current agreement for the extension of the City's sewer and water mains to the Ag Park Property would see the mains ending at the edge of the property. Gibbs & Olson proposes to sub-contract with SCJ Alliance to provide the Engineering documents that will be required to bring service lines onto the property for the purpose of distributing sewer and water service to each of the proposed building locations on the site. Proposed Amendment Number 2 provides the mechanism for the City to authorize Gibbs & Olson to enter into such a subcontracting agreement and for the City to pay Gibbs & Olson for those services. Proposed Amendment Number 2 has been reviewed by City Attorney Hughes and he has no objections.

Recommended action: Move to authorize Mayor Fournier to execute Amendment Number 2 as presented.

AMENDMENT NO. 2

This Amendment No. 2 modifies the Authorization for Engineering Services (Authorization) executed on August 27, 2019, for a project known as the Ag Park Water & Sewer Extension Project under the On-Call Agreement between Gibbs & Olson, Inc., Longview, Washington (Engineer) and the City of Tenino, Washington (Client).

The following modifications are made to the Authorization. All other terms and conditions of the original Authorization and the underlying On-Call Agreement remain unchanged.

SCOPE OF WORK

The Engineer's Scope of Work for this project is modified as identified below. This Amendment incorporates the following additional design engineering services for the project to include water and sewer lines on the Ag Park site. The watermain will be an 8-inch diameter PVC main with valves and hydrants that will connect to the end of the planned 8-inch watermain located along Old Hwy. 99 and then extend along the east and west boundaries of the site. The exact location is to be determined as part of this design contract. The sewer line will be an extension of a 2-inch PVC pressure line that is planned to be extended to the NE corner of the site, along a route interior of the project site as determined as part of this design contract. The Engineer will subcontract with SCJ Alliance who will perform the following tasks per the Client's request:

Task 1- Project Management & Administration

The work associated with this task involves project management and administration as required to complete the identified scope of work below.

- The Engineer will establish and maintain communication within the design team, the Owner, and other involved agencies and stakeholders. The Engineer will monitor and report on the status of scope, schedule, and budget throughout the duration of the project.
 - The Engineer will manage project activities, budget and schedule; and assure that contractual obligations of this Agreement are met and, if necessary, that appropriate supplements are made.
1. Prepare and submit to Client monthly invoices along with progress reports.
 2. Provide in-house coordination meetings.
 3. Throughout the course of the project provide QA/QC reviews
 4. Communicate with Client, during the project, via phone conferences and e-mails.
 5. The Engineer's project manager and project engineer, in addition to attending specific meetings as described in other tasks, shall attend the following meetings:
 - One progress meeting with Client to review 90% plans and construction cost estimate.

Task Deliverables

- Meeting minutes (electronically)
- Invoices/Progress reports

Task 2 - Preliminary Site Analysis

The purpose of this phase is to determine potential project constraints and prepare a preliminary design for review and comment prior to permitting and preparation of construction drawings. This phase will include the following tasks:

1. Obtain and review pertinent sewer and watermain construction plans, topographic mapping etc., for existing sewer and water utilities along Old Hwy. 99.
2. Prepare base map of existing project site with contours based on available information.
3. Evaluate previously prepared preliminary site concept plans.
4. Prepare preliminary grading plan for site.
5. Evaluate alternatives for location of proposed water main, fire hydrants and sewer lines.
6. Perform site walk-through to photograph existing conditions.
7. Prepare a conceptual site plan for review and comment showing proposed sewer and watermain location for project site.
8. Submit conceptual site plan to client and review with client over phone or e-mail.
9. Modify conceptual plan to incorporate changes based on client's review.
10. Prepare addendum to Owner's Water System Project Report previously prepared and approved by DOH.
11. Prepare preliminary engineer's construction cost estimate for water main and sewer line extensions based on unit prices bid by general contractor.
12. Submit preliminary Plans, estimate and Project Report addendum for review to Client and State Department of Health for review and approval.

Task Assumptions:

- If easements are found to be required, work necessary to prepare such easements will be out of scope and additional services that will require an amendment.
- Geotechnical exploration and analyses are not included. If it is determined during the course of design work that any geotechnical exploration and analyses are needed or recommended, they will be considered out of scope and additional services that will require an amendment.

Task Deliverables:

- One full-size and one half-size set of preliminary site plan and grading plan.
- Addendum to Water System Project Report approved by Washington Department of Health.
- Opinion of probable construction cost.

Task 3 - Preparation of Construction Plans, Specifications and Opinion of Probable Construction Cost

The Engineer will prepare construction plans, specifications and an opinion of probable construction cost for the water main and sewer main extensions. Plan sheets are anticipated to consist of the following:

- Site Clearing, Grubbing, and TESC Plan/Details
- Watermain Plan & Profile Sheet
- Sewer Plan & Profile Sheet

Task Assumptions:

- The above does not include services related to additional requirements of reviewing agencies such as additional reports, studies or re-working plans, exhibits and on-going work related to resubmittals. A scope for these additional services will be provided, if required.
- No easements are required.
- Special specifications or engineer’s estimate will not be provided.
- Client will provide services for any required permitting.
- Restoration will include hydroseeding and mulching, notes to be shown on sewer and water plans.

Deliverables:

- One full-size and one half-size hardcopy of final plans.
- One PDF copy of final plans.
- Construction plans in AutoCAD.

SCHEDULE:

The design will be completed within 30 days of Engineer’s receipt of an executed copy of this Amendment No. 2 from the Client.


BUDGET

The budget for the additional scope of work presented above is \$23,300.

Original Agreement Amount	\$ 42,600.00
Amendment No. 1.....	\$ 69,100.00
<u>Amendment No. 2.....</u>	<u>\$ 23,300.00</u>
Total Agreement Amount with	\$135,000.00

GIBBS & OLSON, INC.

CITY OF TENINO, WASHINGTON

By: 
 Richard A. Gushman, President

By: _____
 Wayne Fournier, Mayor

Date: May 20, 2020

Date: _____

File Attachments for Item:

6. MacDonald-Miller and Energy Efficiency Finance Corporation have presented the City with an opportunity to participate in a bio-digester project.

Recommended action: Move to support this effort by authorizing Mayor Fournier to issue a letter of support and to enter into an agreement with the State of Washington to utilize the services of MacDonald-Miller in pursuit of the opportunity.



City of Tenino

149 Hodgden St. S
PO Box 4019
Tenino, WA 98589

(360) 264-2368
Fax (360) 264-5772
clerktreasurer@ci.tenino.wa.us

May 26, 2020

Mr. Jan Allen, P.E., President
Impact Bioenergy Inc.
1001 NW 167th St
Shoreline, WA 98177 USA

Brian Hanson, Project Development Manager
MacDonald-Miller Facilities Solutions, Inc.
7717 Detroit Ave. SW
Seattle, WA. 98106

RE: City Wastewater Treatment Plant Biodigester & Resource Recovery Project

Dear Jan and Brian: This letter confirms the intent of the City to proceed with MacDonald-Miller Facilities Solutions, Inc. (MMFS) and Impact Bioenergy, Inc. (IB) to develop the biodigester and resource recovery project at the City's wastewater treatment plant (Project). The City will proceed to develop this Project using the Washington State Department of Enterprise Services (DES) energy savings performance contracting (ESPC) program which provides us a streamlined pathway to develop, procure and implement the Project with MMFS. We have contacted Roger Wigfield at DES who leads the ESPC program and will soon execute the necessary first stage Inter-Agency Agreement with DES naming MMFS as our contractor for this Project. The City has prior experience with the ESPC program for implementing a rooftop solar photovoltaic project at Tenino High School. The City's final decision to implement this Project is subject to the Project's successful further development and our City Council approval of final Project contract terms and economics.

This letter also confirms the City's full support for the US Department of Energy Water Resource Recovery Prize grant proposal for the Project being prepared by IB and MMFS and to be submitted by IB on behalf of our full team. In developing the Project, the City aims to recover useful energy and nutrient resources from wastewater treatment (WWT) plant biosolids, save on WWT plant electric and thermal energy costs, reduce costs for disposal of biosolids materials from our holding ponds which are presently at full capacity, enable the City to earn revenues by receiving septage thereby providing a transport efficient septage receiving location for local septage haulers and making remunerative use of our underutilized WWT plant capacity, and co-process organic waste materials from local area brewery, distillery, agricultural processing and school food service operations including those to be generated from a new ag-industrial park being developed at a site adjacent to the WWT plant. The City is committed to sustainable community economic development especially of our area's agricultural economy. This Project will serve all these integrated goals.

On behalf of our City Council and staff, I thank you for your efforts and initiative to develop this Project. We look forward to our next steps working together.

Sincerely,
Mayor Wayne Fournier
City of Tenino