

Goldeneye Energy Storage – Project Introduction

Washington Energy Facility Site Evaluation Council (EFSEC) Public
Informational Hearing

August 13, 2024



Introduction

A Proven Team



- ▶ Tenaska is an independent power producer whose expertise lies in leveraging changing energy needs into infrastructure solutions.
- ▶ Tenaska is responsible for approximately 8,200 megawatts (MW) in managed plant operations and just under 800 MW of renewable energy projects in operation.
- ▶ The company is proud to be known for safe, efficient and responsible power generation.

Technology Overview

What is a Battery Energy Storage System?

- ▶ A Battery Energy Storage System (BESS) facility is designed to store power from the power grid (charge) when there is an excess of power being produced, and release power back to the power grid (discharge) when there is a shortage of power being produced.
- ▶ BESS facilities do not generate any power, but only store and release power that was produced elsewhere.
- ▶ Following construction, the facility will not require water or sanitary facilities.





BESS Quick Facts

- ▶ **Size:** approximately 10-20-acre footprint for 200 MW Project
- ▶ **Noise:** low noise impact, complies with noise ordinance, additional mitigation measures available
- ▶ **Traffic:** unstaffed once operational
- ▶ **No Light Pollution:** minimal lighting needs, motion activated security lighting at night
- ▶ **Visual Impact:** vertical height is 8-10 ft maximum, can be mitigated with added vegetation or fencing
- ▶ **Infrastructure Needs:** Does not require sanitary sewer connection

Project Siting

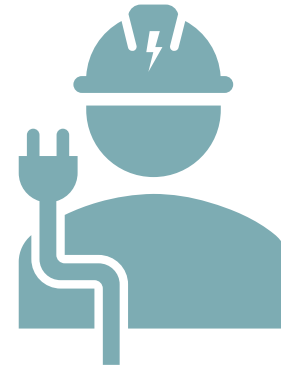
- ▶ Standalone BESS facilities must be sited close to an electrical substation and transmission system to provide maximum support and value for the electric grid.
- ▶ This means projects are ideally suited to be sited in areas that already coexist with high voltage energy infrastructure – BESS facilities integrate with an existing electrical system and footprint.
- ▶ With these parameters in mind, we search for the best available site that minimizes impacts while maximizing energy resiliency benefits for the community.



Safe, Reliable Technology



Our BESS projects utilize state-of-the-art battery technology, supplied by an experienced manufacturer, that has demonstrated the equipment meets or exceeds all applicable safety codes and standards.



We work with independent BESS safety experts on every aspect of the battery system to ensure it meets the latest industry standards, and all safety and technical requirements will be certified by an Independent Engineering firm, which will be necessary for financing parties and insurers.

Safe, Reliable Technology



There are more than 20,000 BESS facilities operating safely across the United States.



The industry has learned from rare, yet well-publicized, malfunctions at older BESS facilities.



Advancements in siting, technology, operations and maintenance – combined with updated standards – make BESS a safe energy solution.



Our team is committed to working with local emergency management to ensure first responders are equipped with appropriate training and resources to respond to safety incidents, however rare.

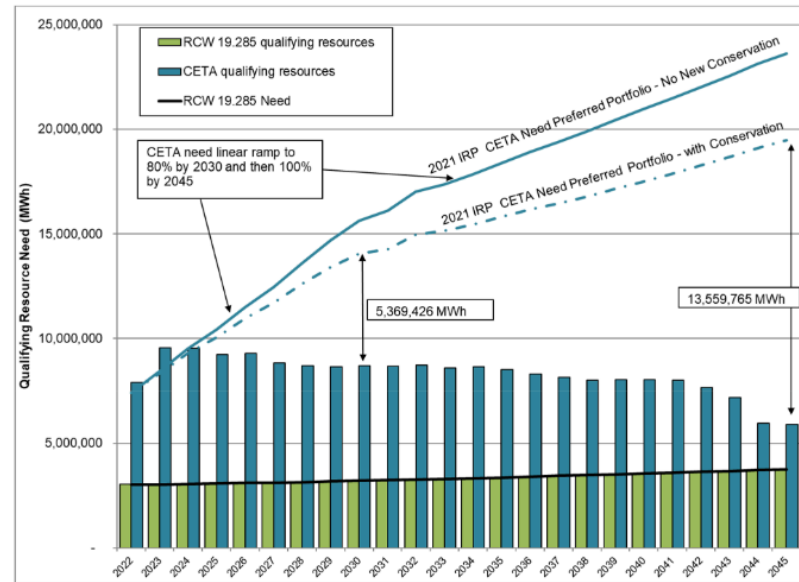
Community Education

- ▶ Additional community education is needed – concerns about utility-scale BESS systems are often conflated with older technologies, consumer-grade lithium-ion systems (from residential BESS to e-scooters) and other “apples to oranges” comparisons
- ▶ We are committed to working with our industry partners to provide information to stakeholders, answer questions, and clarify misunderstandings throughout the process
- ▶ *Contact form available at www.GoldeneyeEnergyStorage.com*
- ▶ *Questions can be submitted directly to info@goldeneyeenergystorage.com*
- ▶ *BESS introductory video and safety video available on project website*
- ▶ *Safety experts at open house and available for questions after hearing*

Project Need

Utilities are seeking new CETA-compliant resources

- ▶ Additional 5,300 GWh needed by 2030 and 13,500 GWh by 2045



Emphasis on firm resources for meeting peak demand

- ▶ CETA-required renewable resources are intermittent
- ▶ There is a strong need for technologies that deliver firm, dispatchable power – the clean energy transition requires BESS facilities located near load centers



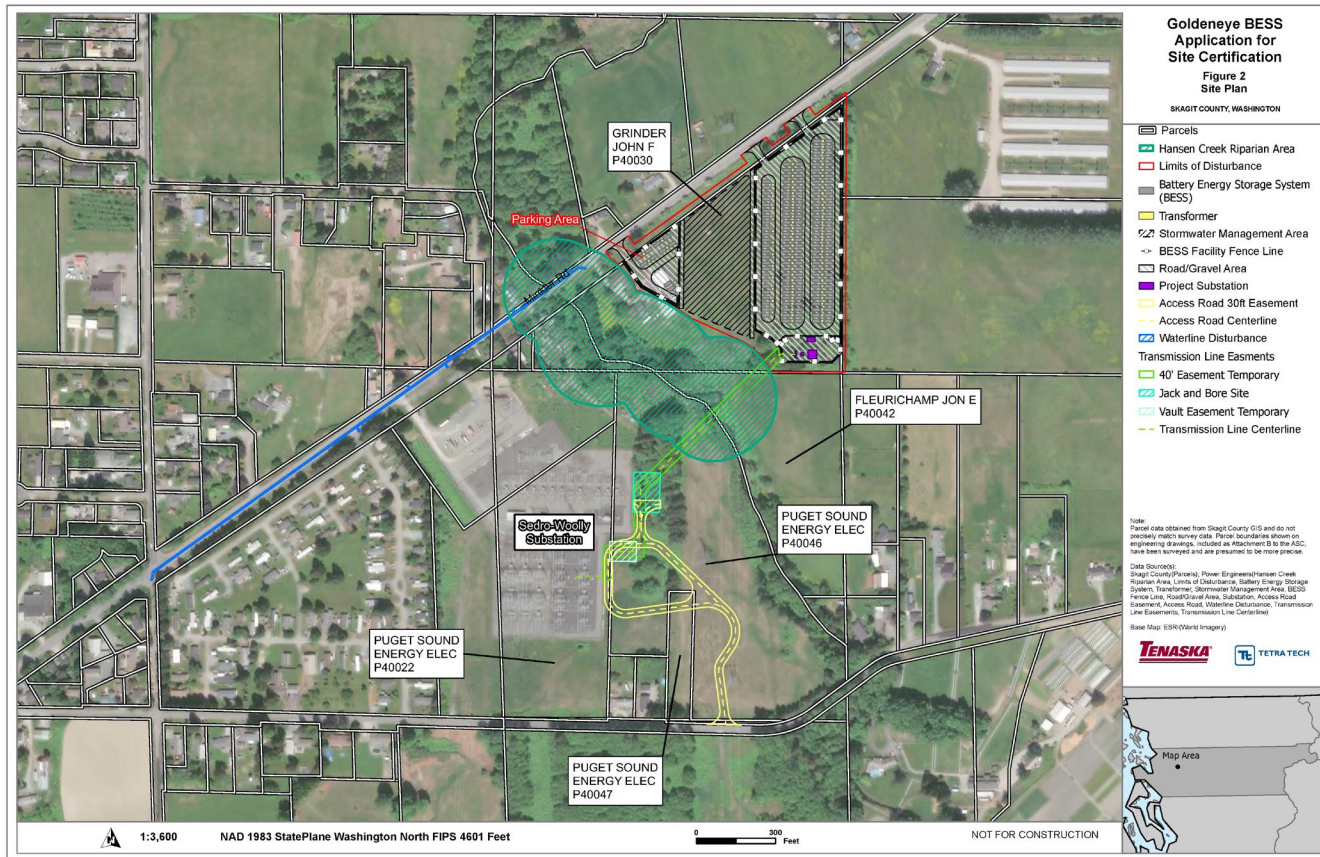
Regional Challenges Ahead

- ▶ Increased demand for electrification due to population growth, extreme weather, EVs, and other factors.
- ▶ Data centers in the PNW, which are notorious for high energy use, are expected to more than double their electricity use in the coming years.
- ▶ The region is increasingly at risk for rolling blackouts and brownouts.
- ▶ Aging transmission infrastructure that cannot meet current or projected demand
- ▶ Grid modernization will establish adaptive communities with long-term stability.



Project Overview

Goldeneye Proposed Location



- 8-acre parcel
- Located .4 miles east of the existing Sedro-Woolley substation that currently co-exists with the community
- Privately owned property
- Land under lease option
- Collaboration with local stakeholders on site plans, including environmental mitigation measures, buffer enhancements, controlling of non-native vegetation, and more.



EXISTING CONDITIONS



PROPOSED CONDITIONS



EXISTING CONDITIONS



PROPOSED CONDITIONS



EXISTING CONDITIONS



PROPOSED CONDITIONS

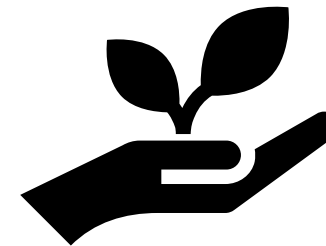
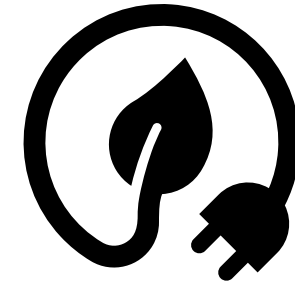
Sedro-Woolley Substation



View of Sedro-Woolley Substation from Minkler Road
facing South

Goldeneye Project – Benefits

- \$250 million investment
- Creates approximately 100 well-paying construction jobs – signed commitment to use local union labor
- Provides energy security and capacity for growing businesses and residential development
- Strengthens existing electrical infrastructure, improves electric grid resiliency and reliability, helps avoid blackouts
- Maximizes the use and integration of renewable energy sources
- Can safely power up to 200,000 homes for four hours
- Safe and proven technology

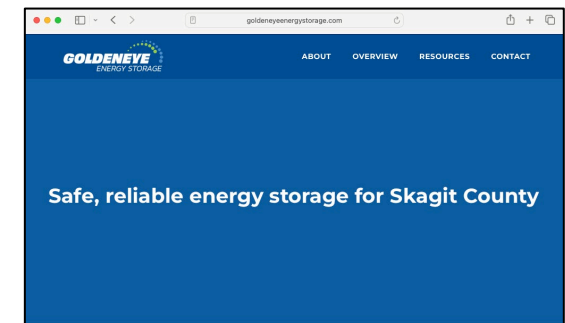


Goldeneye Project – Low Impact Development

- ▶ Light environmental footprint
- ▶ Minimal site disturbance
- ▶ Low elevation profile
- ▶ Does not require water or sanitary sewer connection
- ▶ Operationally quiet
- ▶ Limited traffic impacts to nearby residents or businesses during construction
- ▶ No traffic impact when operating
- ▶ Robust environmental permitting process – project will undergo a full SEPA analysis, biological, Class III Cultural, and wetland evaluation, as well as undergo a Phase 1 Environmental Site Assessment
- ▶ Project not anticipated to result in any impacts that cannot be mitigated
- ▶ Robust safety protocols

Stakeholder Engagement and Community Outreach

- ▶ Engaging with stakeholders and incorporating community feedback is a core value of our development process.
- ▶ The project team met with over 60 stakeholders in the local community, including area tribes, elected officials, and community organizations, to introduce the project and collect input prior to the application filing.
- ▶ Other highlights include:
 - Labor MOU to ensure jobs and wages stay in the community
 - Engagement with Skagit River System Cooperative to collaborate on environmental protection
 - Website and contact form launched in June prior to EFSEC filing
 - Introductory letter sent to nearby residents immediately following EFSEC application filing



Conclusion/Questions