

Grays Harbor Energy Center

Proposed Expansion: Units 3 & 4

What is Grays Harbor Energy?

Grays Harbor Energy (GHE) is the company that owns and operates the Grays Harbor Energy Center in Elma, Washington. GHE is a subsidiary of Invenergy LLC.

Invenergy is a company that develops, owns and operates many natural gas and renewable electrical generation facilities in North America and Europe.

What is the Grays Harbor Energy Center?

The Grays Harbor Energy Center is a 650 megawatt natural gas-fired power plant located in the Satsop Development Park. The existing facility has two combustion turbine generators and one steam turbine generator.

The Grays Harbor Energy Center began operating in July 2008. It is capable of running 24 hours a day, 7 days a week, but only operates when there is demand for the power it produces. During 2009, it operated approximately 3,100 hours, which is about one-third of the time.

What is the proposed expansion?

GHE proposes to expand the facility by adding two more combustion turbine generators and one more steam turbine generator.

GHE calls the existing facility Units 1 and 2, and calls the expansion Units 3 and 4.

Units 3 and 4 will use much of the infrastructure that already exists at developed site, such as the water intake wells and supply lines, the water discharge lines and outfall, the natural gas pipeline, the transmission poles, and the operation and maintenance buildings.

Why is GHE proposing to expand the facility?

Federal and state energy policy is encouraging the development of clean sources of electricity. The Grays Harbor Energy Center is very efficient and reliable. It produces electricity with natural gas, which means fewer greenhouse gas emissions and less air pollution. Expanding an existing facility also results in fewer environmental impacts than building a new facility at an undeveloped site.

GHE wants to expand the Grays Harbor Energy Center because there is growing demand for reliable, clean power in the Pacific Northwest. The demand for electricity varies throughout the year, so GHE does not necessarily expect that the facility will operate 365 days-a-year, but GHE does expect the region to need more generating capacity so that enough

electricity can be produced when it is needed.

How will the local community benefit from the expansion?

Construction of the expansion will cause an influx of economic activity. It will take about 22 months, and have over 500 workers expected on site during the peak of construction. About \$22 million will be paid in wages and another \$28 million spent on local materials, supplies and sub-contractors. This money will multiply through the community as workers buy foods and goods, and local businesses in turn pay their employees.

Once the expansion is complete, the Grays Harbor Energy Center expects to hire eight more full-time employees. The expansion will also significantly increase the facility's assessed property value, which means a much larger tax base for the local taxing districts.

When does GHE expect to begin construction?

GHE has started marketing this proposed energy resource to various electric utilities. Utilities often require permitting activities to be completed or well underway before entering into a contract. Construction will begin after a long-term contract is reached.

Will GHE be removing the trees east of the site?

No. GHE originally proposed to clear this area and use as a staging and parking area. In response to concerns, GHE has agreed not to clear this area. GHE will lease other nearby property instead.

How will traffic be addressed during construction?

Before construction of the existing Grays Harbor Energy Center, GHE made improvements to the Keys Road – SR 12 intersection. Dedicated left and right turn lanes were added to east-bound SR 12, and a dedicated left turn lane was added to west-bound SR 12. A dedicated right turn lane was added to north-bound Keys Road and a flared approach was added to south-bound Keys Road.

During the original construction, a traffic mitigation plan was also developed. An important part of the plan encouraged workers to take the Wakefield/Lambert route to and from the site, in order to minimize traffic at the Keys Road – SR 12 intersection.

For construction of the expansion, GHE will update the traffic management plan as needed. The plan will again encourage workers to use the Wakefield/Lambert route.

What will be done to address light from the facility?

After hearing concerns about light during the public meeting last December, GHE started turning off all lighting that is not needed for safety or security and installing shielding to direct light downward. The same lighting procedures and shielding will be implemented for the expansion.

Who will GHE have to answer questions at EFSEC's meetings?

Brett Oakleaf and Todd Gatewood will make a presentation and answer questions. Brett is the project manager for the proposed expansion. Todd is the plant manager for the existing facility.

Where can you find additional information?

More information can be found in the Application for Amendment 5 to the Site Certification Agreement (Oct. 30, 2009).

It is available on the EFSEC website at:
http://www.efsec.wa.gov/Satsop_Amend%205.shtml