

# PUBLIC SUBMISSION

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US SFR Owner, LLC; Construction Permit Application

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US SFR Owner, LLC.; Kemmerer Power Station Unit 1; Notice of Intent To Conduct Scoping Process and Prepare Environmental Impact Statement

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## General Comment

While I believe that SAFE nuclear power is needed, we should not give up on natural gas and coal. I do not believe we can satisfy the energy needs of a growing population without them. WY is the largest coal producing state, and coal has been important to the WY economy. Also, while the US has been cutting back on coal, coal usage in China and India continue to grow and usage in those countries dwarfs the rest of the world combined.

The DOE should continue to support a new technology for clean power generation from natural gas and clean(er) power generation from coal, called the Allam-Fetvedt supercritical carbon dioxide (sCO<sub>2</sub>) power cycle which is disclosed in US Patent No. 8,959,887 and others.

<https://patents.google.com/patent/US8959887B2/en?q=US+8959887>

A pilot plant has been built in Texas to demonstrate the cycle for both natural gas and coal. The first commercial natural gas cycle is begin commercialized near Odessa, TX. Here is a quote from an article in Power magazine:

<https://www.powermag.com/net-powers-first-allam-cycle-300-mw-gas-fired-project-will-be-built-in-texas/>

NET Power, developer of the novel Allam-Fetvedt supercritical carbon dioxide (sCO<sub>2</sub>) power cycle, will build its first 300-MW natural gas-fired power plant at an Occidental-hosted site near Odessa, Texas.

The “serial number one” project will demonstrate—at utility scale—NET Power’s potentially revolutionary technology, which promises to provide low-cost gas-fired power generation, no atmospheric emissions, no water usage, and inherently captures all its carbon dioxide (CO<sub>2</sub>) emissions.