

# Van Dyk Farms Lynden, WA, USA

**agenitor 212**  
Biogas

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## Fast Facts:

**Location:** Lynden, WA, USA

**Generating Capacity:** 400 kW

**Configuration:** Machine Room

**Extras:** Biogas Treatment System



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## About the Site:

This farm owns and operates a Biogas Plant with a high yield anaerobic digester made by DARITECH. The combined heat and power plant uses the 2G agenitor 212, a thermodynamically optimized 400 kw biogas engine with MAN core, coupled with the patented 2G drives technology, especially developed for high efficiency CHP operations.

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## Application

This combined heat and power plant uses the 2G agenitor 212. The biogas is treated with a 2G Gas Treatment system. The biogas dehumidification system is designed for highly efficient gas drying including re-heating. H<sub>2</sub>S is removed from raw biogas with 2G's carbon based filtration system. The CHP plant is producing energy for more than 400 homes in Washington, with close to 4,000 MW of thermal energy and 3,320 MW/h of electricity per year, feeding the entire electrical production into the PSE grid. The dairy farm improves its energy efficiency, cuts down on greenhouse gas emissions, and keeps manure out of the waste stream. Residues are utilized as fertilizer and bedding.



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