

# DariTech - Tillamook Tillamook, OR, USA

**avus 1200**  
Biogas

## Fast Facts:

**Location:** Tillamook, OR, USA  
**Generating Capacity:** 1200 kW  
**Configuration:** Container Module  
**Extra:** Biogas Treatment System



## About the Site:

The plant, situated within the foundation of a former World War II blimp hangar, will process manure from the equivalent of 5,000 milking Holsteins from Tillamook community dairies. Manure will be delivered in tanker trucks, and treated effluent will be returned to the dairies for agricultural applications. No substrates will be digested with the manure. The new system has three 1-million gallon insulated tanks — two for digestion and a third for “finishing” the effluent. There are also two 250,000-gallon storage tanks, one for receiving manure and the other for off-load back to the farms that are bringing manure to POTB. This modern biogas plant will provide electricity to the Tillamook People’s Utility District. POTB plans to sell the fiber by-product to nurseries and other horticultural users across the Pacific Northwest and northern California.

## Application

The Port of Tillamook Bay (POTB), a 1,600-acre industrial park on the Oregon coast, ordered a complete \$5.6 million manure anaerobic digester from DARITECH, including a highly efficient 1.2 MW 2G® avus biogas CHP system. The fully integrated prime mover of the CHP System is a 2G avus 1200 with an MWM core engine and a capacity of 1,200 kW/h or 9,960 MW p.a. electrical power and 1,225 kWh/th of thermal power. In addition to the CHP unit, 2G Energy Inc. also supplied the complete gas treatment, including cooler, dryer/ dehumidification, and the H<sub>2</sub>S removal system. The customer selected the 2G thermal heat distribution system including hydronic junction. It assures that the CHP maintains optimum thermal performance at any time in different load situations.



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