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Marion Facility

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Energy-from-Waste Facility



**Covanta Marion, Inc.
Brooks, Oregon**

The Marion County Energy-from-Waste facility began commercial operation in March 1987, serving the solid waste management needs of the 300,000 people of Marion County, Oregon. The facility operates as Covanta Marion and processes 550 tons per day of municipal solid waste (MSW), which generates up to 13.1 megawatts of renewable energy sold to Portland General Electric. The facility was the first mass-burn waterwall resource recovery facility combusting MSW in the United States to use dry flue gas scrubbers and fabric filter baghouses to control acid gases and particulates. In addition to MSW, the facility processes about 250 tons-per-month of supplemental waste including non-hazardous medical waste. It is located in Brooks, a small farming community about four miles north of Salem, the state capital, and 40 miles south of Portland.

Notably, the facility has been a member of Oregon's safety and health recognition program, the **Safety and Health Achievement Recognition Program (SHARP) Alliance**, since 2006 and an Occupational Health and Safety Association (OSHA) Voluntary Protection Program (VPP) Star member since 2008.

Technical Data

Address:

4850 Brooklake Road, NE
Brooks, OR 97305
(503) 393-0890

Site:

15.2 acres in Brooks, OR

Commercial Operation:

March 1987

Energy-from-Waste System:

Two 275 ton-per-day waterwall furnaces with Martin® reverse-reciprocating grates and ash handling system

Boiler Design:

655 psig/700°F superheater outlet conditions

Air Pollution Control Equipment:

Semi-dry flue gas scrubbers injecting lime, fabric filter baghouses, nitrogen oxide control system, mercury control system, and continuous emissions monitoring system

Covanta Marion



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Rated Refuse Capacity:

550 tons per day

Energy Generation at Rated Capacity:

up to 13.1 megawatts from one condensing steam turbine generator

Sold to:

Portland General Electric Company



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