



ENGINEERED COMPOST SYSTEMS

MEETING CLIENT DEMANDS WITH SMART PRODUCTS AND SKILLED DESIGN

# Compost News:

## Biosolids Composting in Big Sky, MT



### System Features

*Big Sky's high-rate composting takes place in an automated in-vessel compost system: **The CV Composter**. The system's features include:*

- Automated aeration control and monitoring;
- Reversing and recirculating process aeration;
- Plug-resistant aeration floor;
- Leachate and condensate collection; and,
- Biofiltration of all exhaust air.

*For the Big Sky's project, ECS also supplied a heavy-duty compost mixer for efficiently mixing their biosolids with bulking agents and integrated with a specially designed vessel-loading conveyor; a stationary trommel screen and feed-hopper for removing oversized particles from the finished product prior to markets; motor controls for ECS supplied equipment; and, engineering and design services.*



In June 2005 Engineered Compost Systems (ECS) started up a five-vessel CV Composter™ for the ski resort town of Big Sky Montana. The five vessel system accommodates their current capacity of 130 dry/tons/year—and the system includes provisions to add seven more vessels for a total of twelve as their need for capacity increases.

The CV Vessels are made with stainless steel interiors, exteriors and specialized aeration floor. The Vessels are built on roll-off skids compatible with locally available refuse container hauling trucks.

The ECS CompTroller™ provides automated process control and monitoring within the vessels. It modulates the amount and direction of air flowing through each vessel based on temperature measurements and user selected set-points. It is designed to guide each batch through USEPA 503 regulations.



The facility has an enclosed mixing-building for controlling fugitive odors when blending biosolids and amendments at their odor-sensitive site. The aeration system uses mixing-building exhaust air for the compost system's process air, eventually sending it through site-built biofilters.

The CV Composter™ aeration system is installed partially below grade to accommodate the facility's small footprint, abundant accumulation of snowfall and cold weather conditions. The vessels are equipped with a "cold weather package" that doubles the typical amount of vessel insulation found in most applications.

**Engineered Compost Systems**  
**4211 24th Ave West**  
**Seattle, WA 98199 USA**

Phone  
Email  
Web

206-634-2625

[info@compostsystems.com](mailto:info@compostsystems.com)

[www.compostsystems.com](http://www.compostsystems.com)