Case Study

Inland Empire Regional Composting Authority

REOTEMP INSTRUMENTS

The Inland Empire Regional Composting Authority is the largest indoor composting facility in the United States. Reotemp currently has 85 wireless temperature probes (EcoProbes) in use.

IERCA FACILITY STATS

- **Biosolids – 150,000 Tons/Year**
- **Fully Enclosed 453,900 Sq Ft Building**
- **24 acre site**
- **Automation of fans for pile aeration based on temperature probes**

REOTEMP PROJECT SCOPE

- **85 Wireless Probes (EcoProbes)**
- **Corrosion resistant stems**
- **Moisture & corrosion resistant housing.**
- **Integration into existing PLC system.**

The picture to the left gives you an idea of the size of the static piles being composted. The pile shown is roughly 15ft high. Notice how the 70" marking flags improve visibility in low light, high moisture, environments.

Large (3 acre) outdoor biofilter. EcoProbes are used to monitor the biofilter and relay temperature information to a receiver mounted on the outside of the building.

Active compost piles. Reotemp's EcoProbes are specifically designed to withstand this harsh compost environment. This picture illustrates the high level of moisture and gas in the atmosphere.

These stems were fitted with a protective sheath designed to guard them against the corrosive effects of the biosolids.

Wireless temperature data was fed into the existing IERCA PLC system to provide real-time monitoring of pile temperatures.

Temperature data was also used to control IERCA blowers for pile aeration.

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