



Case Study

Harvest Power: East Bay Municipal Utility District (EBMUD) Organic Waste Pre-processing Facility

Background

East Bay Municipal Utility District (EBMUD) selected Harvest Power to design, build and operate an organic waste pre-processing facility that would receive and process organic waste, and prepare the waste for introduction into a dedicated existing EMBUD anaerobic digester. The initial phase called for 190 tons per day, with a future phase build out to 380 tons per day. The facility would also treat biogas from the digester and compresses the gas to generate Compress Natural Gas (CNG) fuel.

DEI Scope of Work

DEI was hired to manage the overall site plan development and detailed design process. DEI also provided project management and coordination between EBMUD, Harvest Power and the design team.

DEI Tasks

DEI was responsible for the following work tasks as part of its scope of work:

Overall Facility Design Development

- Site plan development
- Traffic flow analysis
- Equipment and technology vendor coordination

Detailed Design Development

- Development of Pre-Engineered Metal Building (PEMB) design and specifications to support request for proposal process
- Detailed design plans to support the building permit process including:
 - All site civil engineering
 - Architectural plan development for buildings
 - Structural engineering of all building and equipment foundations

Results

- While the project did not proceed beyond the design phase, the building permit package was completed to the satisfaction of Harvest Power and EBMUD

DEI

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