

refuse sector

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Clean Energy's fleet clients in the refuse sector include one of the nation's largest refuse collection companies, as well as a leading heavy-duty trucking fleet. Clean Energy designs, constructs, operates and maintains state-of-the-art CNG and LNG fueling stations specifically equipped to meet the particular needs of refuse fleets, including both collection vehicles and roll-off vehicles.



A growing number of U.S. cities are requiring natural gas refuse trucks as part of the franchise process. Manufacturers such as Cummins-Westport, John Deere and Clean Air Partners offer heavy duty natural gas engines well suited to the refuse industry.

Waste Management, Southern California

One of the nation's largest refuse collection companies, Waste Management, had become keenly aware of the increasing scrutiny directed at diesel exhaust. Following the success of Clean Energy partner SunLine, Waste Management made the strategic decision to convert a portion of its fleet to compressed natural gas. Working closely with key Clean Energy executives in 1998, the refuse leader secured the grant funding needed to replace 33 of its diesel refuse collection trucks with natural gas. Waste Management then partnered with Clean Energy to design, build, own and operate a CNG fueling station capable of meeting the needs of its Palm Desert fleet.

Carefully reviewing the various fueling options, Clean Energy designed and installed a time-fill system that best served current fueling needs and can be easily modified to accommodate the entire residential and commercial collection fleet. Now in operation, the site is a combined time-fill, fast-fill station with fleet access. With a compressor capacity of 800 standard cubic feet per minute (scfm), the station fuels more than 60 refuse trucks overnight. The station also has a 24-hour fleet access dispenser, allowing other local fleets,

such as municipalities and taxis, to fuel.

Following the success of the project in Palm Desert, Waste Management expanded its deployment of natural gas trucks to Corona (LNG), Irvine (CNG) and Moreno Valley (CNG), turning to Clean Energy as the fuel provider for these new facilities.

Norcal LNG Station

At Brisbane and Southern San Francisco County, Clean Energy opened a dedicated LNG fueling station for Norcal Waste Systems, Inc., the largest private refuse hauler in California and fifth largest in the nation. Norcal currently operates a fleet of Class 8 tractors powered by the Cummins-Westport ISX-G engine. Using LNG, Norcal's transfer trucks are able to carry more fuel while still meeting stringent weight requirements (80,000 GVW), traveling up to 600 miles roundtrip per day. Clean Energy's on-site LNG station has been an ideal solution for Norcal's needs and can accommodate up to 50 refuse trucks per day.



Smithtown, New York

In 2007, Clean Energy began fueling all refuse trucks under contract to the town of Smithtown, Long Island New York. Smithtown is the first municipality outside California to require natural gas-powered refuse trucks for its services.