

Nelson Stewart

Energy Industry Consultant

Profile

Experience in the field of energy production mechanical infrastructure contracting includes, but is not limited to, most of the existing New York metropolitan area power plant facilities, including the manufacture of approximately 50 cryogenic industrial gas liquefaction plants (40 to 100 ton per day of liquid air) and approximately 18,000 MW of thermoelectric power plant construction with refinery and power plant installation, retrofit, outage, upgrades, combined cycle, peak energy LNG and/or oil-to-gas conversions. Built and modified industrial facilities for Con Ed, LIPA (LILCO), Keyspan and most major energy production companies, in addition to having worked on Indian Point, Shoreham and the first major grid effort on a 4.5 MW fuel cell for Con Ed.

Career Highlights

Approximately 2,000 MW peak energy installations with units by GE Worthington and Westinghouse located at Con Ed Astoria, Ravenswood, Narrows, Gowanus, Astoria, Pier 11 (15 days), LIPA (formerly LILCO) Shoreham West Yard (280 MW GE gas turbines in 12 weeks). The manufacture of the first 4.5 MW fuel cell for United Technologies installed at Con Edison at 14th Street in Manhattan, New York (see article attached).

Design, manufacture and installation of tens of thousands of Verticon all-utilities modular units.

*Design and development of HydroPoint Energy point-of-use energy manufacturing plants and design and development of 17.5 kW Model E drives with generator for residential stand-alone, point-of-use, 1 barrel/day oil-equivalent energy production. **Note:** All Model E 17.5 units qualify for a \$30,000 per kW \$525,000 loan against carbon credits, repaid with 115 tons of carbon credits per year.*

*Design and development of 1MW to 100 MW Model I drives with generator as stand-alone, point-of-use energy production unit to transitionally repower energy facilities and phase out central plants, grids and fossil fuel infrastructures. **Note:** All Model I 1 MW units qualify for a \$30,000 per kW \$30,000,000 loan against carbon credits, repaid with 6,586 tons of carbon credits per year.*

Two 1 Million Barrel LNG Plant



Professional Experience

Most of the following were accomplished within rigorous time constraints: days – weeks – months versus years) and represent 100% of the existing New York metropolitan area power plant and New York City Steam (Con Edison) infrastructure:

- Construction of the last unleaded gas refinery in the northeastern United States for Exxon at Bayway, NJ (9 months to complete)
- The mechanical installation and upgrade of liquefied natural gas (LNG) plants 1 and 2 at Brooklyn Union Gas, Greenpoint, Brooklyn, NY (weeks to months to complete) and the installation of Distrigas LNG plant at Arthur Kill, Staten Island NY (9 months to complete)
- The manufacture of approximately 50 cryogenic industrial gas liquefaction plants (40 to 100 ton per day of liquid air, which currently produce 7,000 gallons/200 BBL to 30,000 gallons/800 BBL per day of liquid oxygen and nitrogen (from liquid air) all over the world. 50 BBL per day units are a simple development as the separation unit (Cold Box) is not required.
- Approximately 18,000 MW of thermoelectric power plant construction in the New York Metropolitan area with refinery and power plant installation, retrofit, outage, upgrades, combined cycle, peak energy LNG and/or oil-to-gas conversions, e.g., Con Edison projects in Astoria, 1 through 5 Ravenswood, Indian Point Nuclear 2 and 3, Waterside, Kent Avenue, 74th Street, 59th Street, 14th Street, Arthur Kill, New York City Steam send-out plants 12.5 million pounds per hour, including 65 major NY City Steam meter conversions (all weeks - months to complete) LIPA (formerly LILCO) thermoelectric power plant construction located in Northport, Port Jefferson, Island Park, William Floyd combined cycle LNG Shoreham Nuclear Plant (7 years).