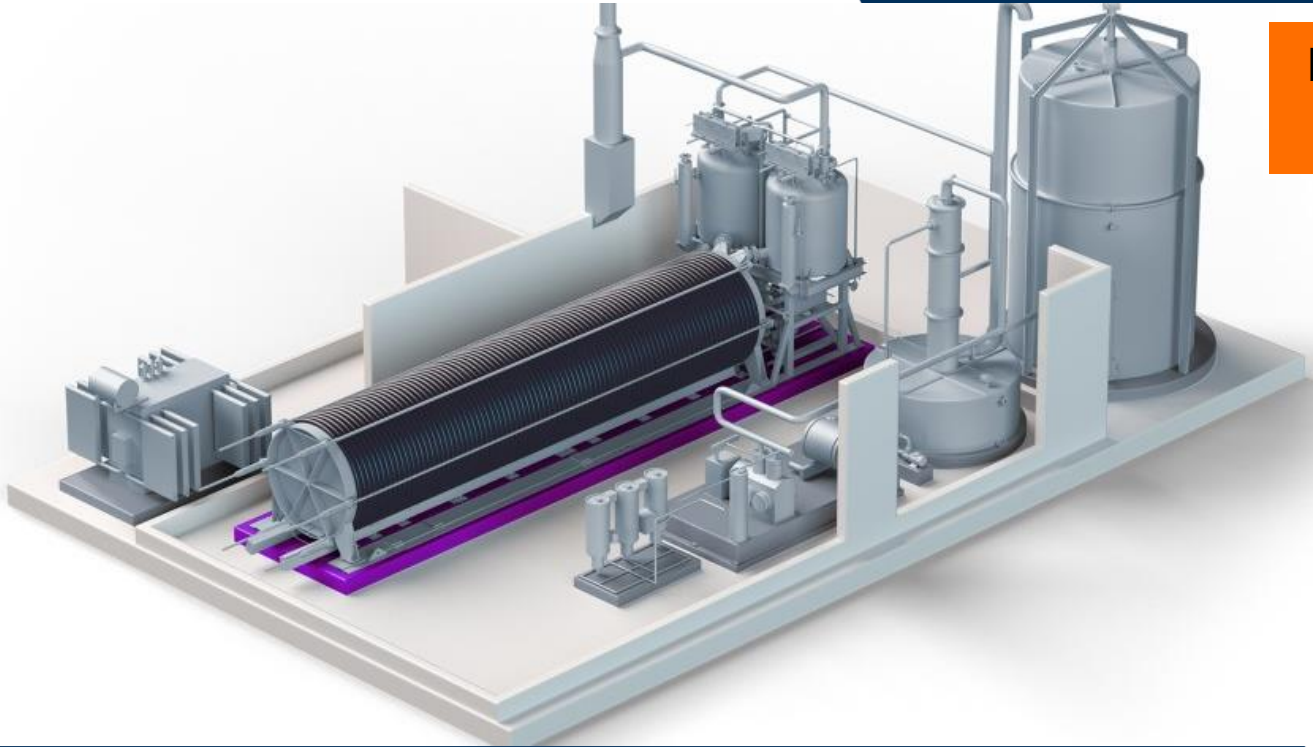


Plant #  
**606**



## Unused NEL Hydrogen Electrolyzers – 30,000 Nm<sup>3</sup>/hr

**Capacity:** 30,000 Nm<sup>3</sup>/hr.

**Process Information:** This system splits purified water into hydrogen and oxygen using electricity, producing high-purity hydrogen for industrial applications.

### Major Equipment

- Bi-polar filter press electrolyzers
- Electrolyte system module
- Gas analyzers
- Transformer
- Rectifier
- Lye tank
- Water purifier
- Gas scrubber
- Oxygen ventilation system
- Hydrogen compressor
- Deoxidizer
- Hydrogen gas dryer

### Brief Plant Description

Never used, never installed NEL atmospheric alkaline electrolyzers with maximum hydrogen production capacity of approximately 30,000 Nm<sup>3</sup>/hr. Product hydrogen has purity of greater than 99%. Production turndown ratio 15%. Electrical consumption at 100% production load: 4.5 kWh/Nm<sup>3</sup>. This bi-polar alkaline electrolyzer stack and electrolyte system module has operating pressure at 0.435 psig. DCS control system is included. Also available is a never-used hydrogen liquefaction plant.

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