

## On Demand H<sub>2</sub> Generation



## **HOGEN Hydrogen generator features & benefits**

HOGEN hydrogen generators utilize PROTON's unique exchange membrane (PEM) electrolysis system and electricity to separate water into pure hydrogen and oxygen

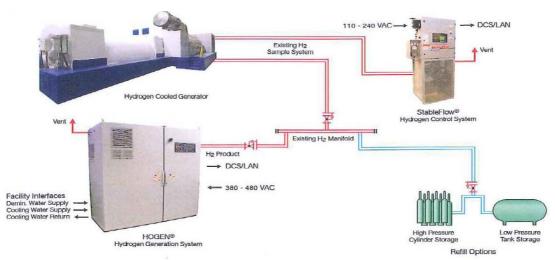
Its unique design allows the HOGEN hydrogen generator to contain *virtually no stored hydrogen*, even when generating hydrogen at 228 scf / hr (6 Nm³hr) – meeting the daily hydrogen requirements of power plants as large as 4,000 MW

- Pure hydrogen at process pressure up to 435
- psig (30 bar) and a dew point of -85°F / -65°C, 99.9995% purity without compressor
- Low-cost H<sub>2</sub> supply offering a 2- to 3-year payback
- Fast and easy installation up and running in a day
- Small footprint fraction of space needed for cylinder or trailers
- Remote monitoring and alarms



- Increased safety no caustic chemicals;
  hydrogen in unit amounts to less than 2% of hydrogen stored in standard cylinder
- Low maintenance requires as little as 4 hours of maintenance per year
- Reliable supply of hydrogen field-proven reliability
- Automated, unattended operation

## **Typical power plant implementation**



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