



## H2S Technologies Inc.

**Company Overview:** H2S Technologies Inc. developed a Hydrogen Sulfide treatment process, HYREC™, that recovers hydrogen and sulfur, greatly reduces flaring, and eliminates or substantially reduces sulfur emissions from flaring facilities into the atmosphere.

**Problem:** Flaring consumes vast amounts of natural gas to get rid of hydrogen sulfide that, when burned, contributes to acid rain and other environmental problems. Regulations by enforcement authorities, and growing environmental concerns are pressuring the industry to find alternatives to the flaring process.

**Solution:** H2S Technologies has demonstrated the separation of hydrogen/hydrogen sulfide gas mixtures in repeated tests. The process maximizes hydrogen recovery, minimizes the energy used for separation, and integrates the separation technology into the sulfur removal process. Flaring is essentially eliminated. Elemental hydrogen and sulfur are cost-effectively recovered. H2S has licensed intellectual property from Argonne National Laboratories, Physical Sciences Inc, and ExxonMobil. It has integrated these technologies and own exclusive patent rights to HYREC.

**Business Model:** H2S will manufacture, install and maintain the HYREC process at client facilities, charging a fee based on gas volume throughput. Using the HYREC process and a fee of \$0.45/Mscf on 15 plants in Alberta with a gas volume throughput of 10,000 Mscf/d (2004 data) yields an annual income of \$28 million. Companies will consider the fee as production cost.

**Markets/Customers:** H2S will target the 1,000 sour gas plants flaring up to 3 tons per day in North America. These plants are flaring approximately 99 billion cubic feet of gas annually. They will benefit from H2S technology by: (1) increased sales production, (2) qualifying for greenhouse gas credits, and (3) generation by-products (hydrogen, sulfur and CO<sub>2</sub>) for additional revenue.

### **Competitive Advantage:**

- Patent awarded in the U.S.; filed in Canada, Mexico, China, India, EU, Russia
- Reduces flaring restrictions on oil and gas producers.
- An economical solution to environmental pollution, e.g acid rain
- Produces hydrogen as a by-product
- Small footprint, easily transported and adaptable to offshore applications
- Compliments current competitive technologies

**Management Team:** Doug Robinson (president and director), 30 years of senior level experience in the oil and gas industry; Richard Selinger (COO and director), 35 years of oilfield experience, founded H2S Technologies Inc.; John Harkness, Ph.D. (Director), 30 years of experience in industrial process development; Cory Selinger, 15 years in sales, marketing, fabrication and information technology.

**Funding Request:** \$4 million



**DOUG ROBINSON**

*Investors: Founders*

*H2S TECHNOLOGIES  
4725 – 68 Ave  
Edmonton, AB  
780-466-0404  
www.h2s.ca*

*In Attendance:  
Doug Robinson  
Dick Selinger*

*Revenue Forecast:*

2008:	\$ 0
2009:	\$ .36M
2010:	\$ 5M
2011:	\$ 7M
2012:	\$ 15M