



## SNT Ventures, LLC

**Company Overview:** SNT Ventures, LLC is commercializing the SuperCritical Water Extraction and Refining (SCWER) system for upgrading non-conventional reserves such as heavy oil, bitumen and oil shale, at the production site. It promises to be a less expensive method than conventional refining to recover, upgrade, and separate high-value compounds. The result will be substantially increased revenues for producers of heavy oil and bitumen by enabling a \$25 per barrel pricing premium.

**Problem:** The global demand for liquid petroleum fuels is projected to grow from 86.1 million barrels per day in 2007 to over 103.9 million barrels per day in 2030. Easily accessed conventional reserves are depleting, forcing shortages and costly efforts into environmentally and politically riskier locations to satisfy demand. More easily accessed non-conventional reserves are plentiful, however, heavy oil producers face added extraction, separation and transportation costs, yet realize \$25 per barrel less revenue for their product. Compounding this, only 25 percent of U.S. refineries can process the non-conventional reserves.

**Solution:** The SCWER technology takes advantage of the high solvent capacity of supercritical water to 'thermally crack' the heavy oil/bitumen into smaller, higher-value compounds without the additional processing required in conventional refineries. In addition, the patent-pending solution is applied in the field, thus enabling the transport of the new, higher-value oil through existing infrastructure rather than requiring alternative transportation methods. The SCWER solution provides the non-conventional producer with a 10-times better return than drilling new wells.

**Business Model:** Upfront direct sales of configured skid-mounted SCWER units based on customer funded engineering assessments of production sites, with a per barrel royalty stream. Custom designed plants will be offered for larger operations. Industry established partner provides engineering, design and construction services for installation.

**Market Opportunity:** The U.S. and Canada hold upwards of 1.1 trillion barrels of easily accessible non-conventional heavy oil and tar sands reserves.

### Competitive Advantage:

- Deploys at the recovery site
- Upgrades hydrocarbon value
- Removes sulfur and metallic impurities in the same process step
- Reduces energy required for further separation
- Product readily accepted by more refiners
- Uses existing piping and storage equipment

**Management Team:** Stephen Yarbro, owner SNT Ventures, LLC has more than 27 years of process engineering and management experience with complex, high-hazard operations. Tresa Yarbro, co-owner, has more than 27 years of experience with managing operations with intensive quality assurance and data management requirements.

**Funding Request:** \$1.5 million dollars for validation and design.



**STEVE YARBRO**

**Year Founded:** 2008  
**Employees:** 2

*SNT Ventures, LLC*  
531 Rover Blvd  
Los Alamos, NM 87544  
Phone: (505) 412-2934  
Fax: (505) 672-3395  
sntventures@gmail.com

**In Attendance:**  
Steve Yarbro

**Revenue Forecast:**

2012:	\$ .2M
2013:	\$ 1.5M
2014:	\$ 6.2M
2015:	\$ 16.9M
2016:	\$ 39.3M