## OnQuest - Turnkey EPC for LNG

Established in 2002, OnQuest, Inc. is an industry leader in process design and applied combustion technology for clients in the energy industry. We specialize in design and engineering for mid-sized liquefied natural gas (LNG) plants, hydrocarbon reforming—including hydrogen, ammonia, methanol—and renewable energy production facilities such as biofuel and waste-to-energy plants. OnQuest designs and delivers a full range of direct-fired heaters and related combustion technologies, including burner management systems, waste-heat recovery systems, NOx reduction technologies and thermal oxidizers, and we are experts in furnace revamps and retrofits. We also support process facilities with a range of custom spare parts.

Based in Los Angeles, California, we have offices in Calgary, Alberta, and Houston, Texas, and have sales representatives worldwide. OnQuest is a subsidiary of Primoris Services Corporation (NASDAQ: PRIM), one of the nation's largest specialty civil construction companies.


## Considering Small-Scale LNG?

**It's Not Just Technology. You Need Know-How.**

It's a tempting equation. Seemingly inexhaustible domestic natural gas supply. Growing demand for LNG to meet high horsepower applications and transportation needs. A range of different cryogenic technologies. Small-scale natural gas production facilities hold tremendous promise. But there's an important complication - and that's cost. While natural gas is everywhere, purification and processing need to happen where the gas is captured, and must be done economically.

Depending on the technology selected, a range of risks can impact costs - from infrastructure and utilities availability to fire control and safety systems, from throughput capacity to power consumption.

How do you control your initial outlay? Predict ongoing operations costs? And realize your forecasted returns? The best way is to anticipate risk and manage contingencies as far in advance as possible - long before breaking ground.

**Turnkey EPC for Small-Scale LNG**

Purpose-built, dedicated LNG production facilities present a worthwhile economic proposition. They can be built to your specifications and are scalable. But the economics only make sense if owners and/or developers can forecast costs- including capital outlays for design and construction, as well as ongoing operating expenses - and control project risk.

As a value-focused investor, you need to understand the variables that affect project cost and timeline for construction. And you need a contracted engineering firm to model and manage those risks at the appropriate stages of a project.

OnQuest's model for managing technical requirements and execution identifies risks in advance by project phase. By plotting risks on a standardized project timeline, OnQuest helps you predict and manage the potential implications of different risks before they emerge, which reduces bottlenecks, speeds decision-making, and allows projects to continue on the critical path to completion.

**OnQuest** | 180 East Arrow Highway, San Dimas, CA 91733 | (909) 451-0500 | www.prim.com
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**OnQuest** | 8111 Ashlane Way Ste 110, The Woodlands, TX 77382 | (918) 314-7033 | www.prim.com

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## BETTER BALANCE COST & RISK.

**OnQuest specializes in lump-sum, turnkey engineering, procurement and construction (EPC) for smaller-scale LNG production and distribution facilities. We focus in particular on owners and developers requiring purpose built facilities or that have natural gas assets far from existing LNG terminals.**

**OnQuest has completed engineering, procurement, and construction supervision on some of the highest-profile small scale LNG plants in the U.S. and we're a global leader in providing engineering feasibility studies and project cost estimates to companies considering investments in small to mid-scale process plants. We're involved in multiple Phase I reviews for planned purpose-built LNG facilities with capacity from 50,000 to 500,000 GPD per train.**

**OnQuest has the hydrocarbon processing experience, knowledge of cryogenic technologies, and project management capability to offer fixed-price, turnkey EPC on small-scale LNG production facilities. Our engineers are familiar with the range of alternative solutions for natural gas purification, treatment, compression and chilling, and storage, as well as natural gas liquids processing and recovery.**

**We know how to forecast and manage risks that can impact your costs. That helps safeguard your returns.**

## LNG PROJECT TIMELINE WITH RISKS BY PHASE

| | | | |
|---|---|---|---|
| **Phase I Planning** | • Contract Sales Price for LNG<br>• Liquefaction Technology<br>• Site Location | • Feedstock Availability<br>• Feedstock Price & Supply<br>• Regulatory & Permitting | • FERC Permissions<br>• Utilities Supply |
| **Design / Engineering** | • Siting Studies<br>• Defining Design Basis | • Engineering Resources<br>• Fire Dept. Requirements | • Vendor Info. Availability<br>• Timely Decision Making |
| **Procurement** | • Shortage of Equipment Suppliers<br>• Logistics | • Timely Order Release<br>• Deliveries | |
| **Construction** | • Subcontractor Performance<br>• Labor Availability | • Equipment Deliveries<br>• *Force Majeure* (Weather) | • Construction Permitting<br>• Rework |
| **Commissioning** | • Experience of Operators | | |

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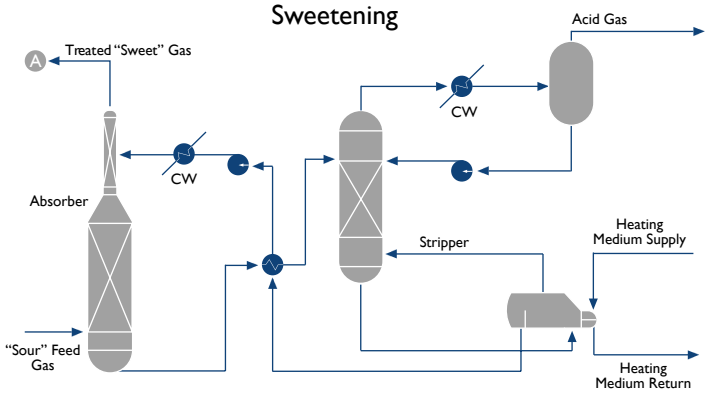
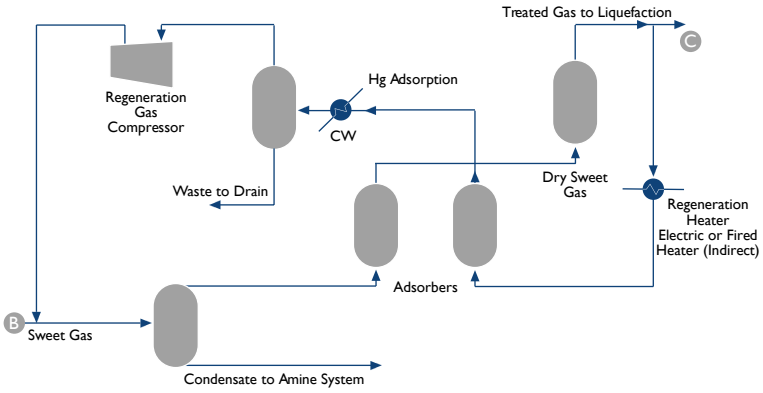
# LNG PROCESS FLOW & EQUIPMENT

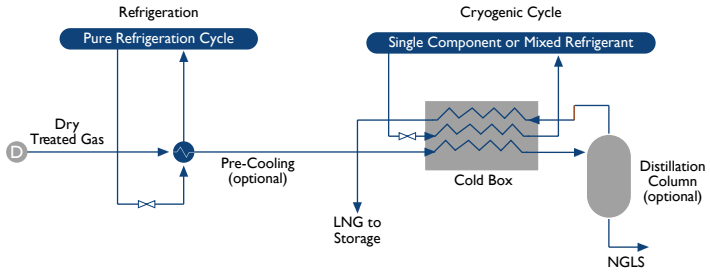
## Sweetening



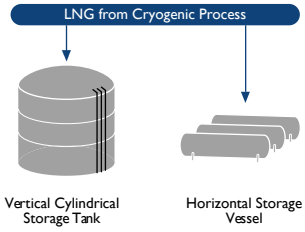

## Dehydration & Hg Removal




## Liquefaction & NGL Recovery




## LNG Storage Alternatives

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## LEARN MORE

Turnkey EPC for small-sized LNG process plants is OnQuest's sweet spot - from feasibility analyses to cost estimates, from design engineering to piping, from procurement to construction.

OnQuest can provide fixed-price EPC for developers of LNG facilities up to 1 million gallons per day (1600 metric tons/day), delivering on schedule and on budget.


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