LNG Solutions
DELIVERING CLEAN ENERGY AND PROVEN LNG SOLUTIONS
The World’s Energy Mix is Rapidly Changing

Movement toward cleaner energy alternatives is ushering in greater demand for liquefied natural gas (LNG) infrastructure. Black & Veatch supports LNG infrastructure development, combining technology and know-how on LNG production, storage, regasification and send out facilities with seamless solutions for design, procurement, fabrication and construction.

LNG VALUE CHAIN

Black & Veatch Offerings

GAS FIELD OWNERS

Exploration

Production

Feed Preparation

LNG Plant (Liquefaction)

Tank Storage

Transportation

Satellite Storage

Revaporization

END USERS
PRICO® KEY ADVANTAGES
- Simplified operation
- Minimal refrigerant inventory
- Reduced equipment count
- Maximum flexibility
- High reliability
- Low capital cost
- Reduced operating cost
- Rapid startup

PRICO® SMR TECHNOLOGY
Applied across a broad range of plants
- 30+ LNG plants in operation
- 50+ years of LNG production
- 176 MM tonnes of LNG produced
- 10 plants in engineering and construction
- Covered by three U.S./international patents

GUARANTEED PERFORMANCE
- LNG production
- Product purity
- Utility consumption

*The PRICO® Process is Black & Veatch Corporation’s proprietary LNG liquefaction technology.
Our Global LNG Footprint Delivers Value

BLACK & VEATCH AT A GLANCE
- Global workforce of approximately 11,000+
- More than 110 global offices

FULL SUITE OF SERVICES
- Conceptual studies
- Feasibility studies
- Process design packages
- Total EPC solutions

176 MM TONNES OF LNG
BLACK & VEATCH ADVANTAGES

- Proven track record
- Seamless LNG-to-market solutions
- Single-point lump sum responsibility
- Full complement of EPC services
- Global sourcing for lowest cost
- Fast-track execution
- Rapid startup to full production
- Unsurpassed training
- Guaranteed performance
<table>
<thead>
<tr>
<th>Client / Projects</th>
<th>Location</th>
<th>MMSCFD</th>
<th>MMTPA</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golar Gimi</td>
<td>FLNG</td>
<td>280</td>
<td>4x0.5</td>
<td>In Detail Design/Released for Pre-FEED</td>
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<tr>
<td>Golar Gandria</td>
<td>FLNG</td>
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<tr>
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<td>280</td>
<td>4x0.5</td>
<td>In Construction</td>
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<tr>
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<td>FLNG</td>
<td>613</td>
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<td>FEED Completed</td>
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<tr>
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<td>Algeria</td>
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<td>280</td>
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<td>Pre-FEED Completed</td>
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<td>Erdos II</td>
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<td>Xinjiang</td>
<td>China</td>
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<td>0.50</td>
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<td>China</td>
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<td>Various</td>
<td>Up to 37</td>
<td>&lt;0.30</td>
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</table>

*PRICO® LNG FACILITIES — NO SIZE LIMIT* Small-to large-scale production
### FLEXIBILITY OF TERMINALS  We know LNG

- 16 LNG terminal projects
- First LNG/power integration project
- First FERC permit received in modern era
- First new North American terminal on line May 2008
- 200-2,000 MMSCFD capacities
- Numerous vaporization technologies utilized

### *PRICO® LIQUEFACTION PLANT FLEXIBILITY  We know liquefaction*

<table>
<thead>
<tr>
<th>Nominal Capacity MMTPA</th>
<th>Driver Example</th>
<th>KW Available at 30°C</th>
<th>Fuel Efficiency % at 30°C</th>
<th>Main Exchanger No. x Cores</th>
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<tbody>
<tr>
<td>0.6</td>
<td>LM2500+</td>
<td>26100</td>
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<td>0.7</td>
<td>LM2500+(G4)</td>
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<td>RR Trent</td>
<td>43600</td>
<td>40.0</td>
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<tr>
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<td>2 x RR Trent or WLE</td>
<td>2 x 43600 or 49400</td>
<td>40.0</td>
<td>2 x 8</td>
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</table>

*Plant ranges do not include inlet chilling, which may add 20-30 percent capacity.
Through the excellent cooperation with Chemtex and Black & Veatch ... only 4 weeks to achieve LNG production — should be a new record in your LNG experience. Furthermore, the new record proves your capability and improves your reputation in China. Thanks for your cooperation, thanks for a great job!

MR. LEXIAN WU | PRESIDENT AND CEO
ERDOS XINGXING ENERGY SOURCE CO., LTD

Let’s get started. bv.com/contact-us