World-Class LNG Capabilities
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.
**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.

---

**PRICO® SMR TECHNOLOGY**

---

**PRICO-DMR® TECHNOLOGY**

---

*PRICO® 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
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
**PRICO® LNG FACILITIES – NO SIZE LIMIT**  Small-to large-scale production

<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>
</tr>
<tr>
<td>Golar Gandria</td>
<td>FLNG</td>
<td>280</td>
<td>4x0.5</td>
<td>In Detail Design/ Released for Pre-FEED</td>
</tr>
<tr>
<td>Golar Hilli</td>
<td>FLNG</td>
<td>280</td>
<td>4x0.5</td>
<td>In Construction</td>
</tr>
<tr>
<td>Excelerate</td>
<td>FLNG</td>
<td>613</td>
<td>4x1.15</td>
<td>FEED Completed</td>
</tr>
<tr>
<td>Excelerate</td>
<td>FLNG</td>
<td>405</td>
<td>3x1.15</td>
<td>FEED Completed</td>
</tr>
<tr>
<td>Skikda</td>
<td>Algeria</td>
<td>2x145</td>
<td>2x1.2</td>
<td>In Operation</td>
</tr>
<tr>
<td>Confidential</td>
<td>FLNG</td>
<td>280</td>
<td>2x1.0</td>
<td>Pre-FEED Completed</td>
</tr>
<tr>
<td>Confidential</td>
<td>FLNG</td>
<td>189</td>
<td>2x0.75</td>
<td>Pre-FEED Completed</td>
</tr>
<tr>
<td>Douglas Channel</td>
<td>FLNG</td>
<td>100</td>
<td>0.74</td>
<td>FEED Completed</td>
</tr>
<tr>
<td>Exmar</td>
<td>FLNG</td>
<td>72</td>
<td>0.55</td>
<td>In Construction</td>
</tr>
<tr>
<td>Erdos II</td>
<td>China</td>
<td>75</td>
<td>0.56</td>
<td>Startup '16</td>
</tr>
<tr>
<td>Xinjiang</td>
<td>China</td>
<td>65</td>
<td>0.50</td>
<td>In Operation</td>
</tr>
<tr>
<td>11 Projects</td>
<td>China</td>
<td>33-54</td>
<td>0.25-0.43</td>
<td>In Operation</td>
</tr>
<tr>
<td>19 Projects</td>
<td>Various</td>
<td>Up to 37</td>
<td>&lt;0.30</td>
<td>In Operation</td>
</tr>
</tbody>
</table>

**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
- Global sourcing for low

**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>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td>LM2500+</td>
<td>26100</td>
<td>38.5</td>
<td>1 x 4</td>
</tr>
<tr>
<td>0.7</td>
<td>LM2500+(G4)</td>
<td>28600</td>
<td>38.9</td>
<td>1 x 6</td>
</tr>
<tr>
<td>0.8</td>
<td>LM6000PC</td>
<td>33700</td>
<td>38.1</td>
<td>1 x 6</td>
</tr>
<tr>
<td>0.93</td>
<td>LM6000PG</td>
<td>40200</td>
<td>39.3</td>
<td>1 x 8</td>
</tr>
<tr>
<td>1.0</td>
<td>RR Trent</td>
<td>43600</td>
<td>40.0</td>
<td>1 x 8</td>
</tr>
<tr>
<td>1.2</td>
<td>RR Trent or WLE</td>
<td>49400</td>
<td>40.0</td>
<td>1 x 8</td>
</tr>
<tr>
<td>2.0-2.4</td>
<td>2 x RR Trent or WLE</td>
<td>2 x 43600 or 49400</td>
<td>40.0</td>
<td>2 x 8</td>
</tr>
</tbody>
</table>

Multiple trains for increased quantity and reliability

*Plant ranges do not include inlet chilling, which may add 20-30 percent capacity.*