Technical Innovation for the Future of LNG

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ConocoPhillips
• Largest Independent E&P
• LNG Plant Owner/Operator
• Commercial Player in LNG Value Chain
• Licenses the Optimized Cascade® Process
  – 15 Trains commissioned since 2015
  – Used in ~25% of global LNG capacity
  – Renowned for easy/flexible operations
  – Train size from 1.5 – 7+ MTPA
  – Provides ongoing technical services
Important Innovation Themes for the Future of LNG

• Collaboratively develop standardized/modularized designs to expedite FEED and then execute projects on schedule & within budget.
• Continuous improvement implementing driver/compressor technologies.
• LNG suppliers will benefit from efficient turnup/turndown capabilities to better serve the growing LNG spot market.
• Leaner gas feedstocks and/or higher N₂/CO₂ content make heavies, acid gas and nitrogen removal more challenging and can negatively impact plant reliability.
• Data science technology & advance process control solutions/services are the latest craze – what’s the best strategy to optimize value?