

W|EPC LNG Research

LNG Infrastructure • Project Analysis • Alternative Fuels



Unparalleled Insight. Comprehensive Solutions.



We Speak Your Language

Webber R|A integrates finance, risk, technology, engineering, & capital project execution into a comprehensive strategy to mitigate risk & increase stakeholder value.

We separate our consulting services into two distinct practices: **W|EPC** Technical Consulting, & Strategic Advisory through **Armistead Street Capital Partners.**

Each practice leverages our extensive expertise across the entire energy supply chain, with a deep understanding of commercial, technical and financial dynamics putting us in position to add unique insight, context, and clarity for our clients.

Whether it's long-term due diligence on hard asset investments, independent engineering services, bespoke valuations, fairness opinions, or corporate & strategic consulting, our unique position in the market – sitting at the nexus of Energy, Industrials, & Renewables - gives us a valuable and unique perspective.







W|EPC: Platform Overview

Term: Quarterly (billable and cancelable). Two Quarter Minimum.

Platform Pricing (3-4 Users): email us at info@webberresearch.com

Individual Pricing: bespoke

Subscription Includes:

<u>Comprehensive Research & Insights:</u> Immediate access to our **Top-Ranked LNG**, **Energy** & **Utility**, and **Alternative Fuels** research, curated data & updates, distributed via email with secure, individualized links, including:

Full Coverage Of The LNG Value Chain, Energy Infrastructure, & Alternative Fuels:

- <u>LNG Project Deep Dives</u> (including in-house timeline estimates, budgets, and cost-overruns)
- Satellite & drone imagery, analysis of key updates and market changes differentiated depth.
- W|EPC Project Database: key cost, timeline, & regularly data cutting through the clutter.
- Independent project timeline & budget analysis identifying issues before the market.
- Alternative fuel comparisons, infrastructure deep dives adding definition to a sea of white space.
- Corporate Access (includes access to Fireside Chats, replays & takeaways)

Full Research Library Access:

- Access to our full Research Library
- Updated models, industry data & satellite imagery
- Our multi-factor LNG S/D model probability weighting +70 liquefaction and +100 Regas projects
- Webber Research's LNG Weekly & Other Insights

On-Demand Analyst Access:

- On-demand access to our analyst teams, EPC experts & engineers in New York & Houston
- Bespoke sensitivity analysis & project work
- Project reviews, teach-ins, or client calls live expertise, whenever or wherever it's needed.





Webber Research Project & Industry Coverage

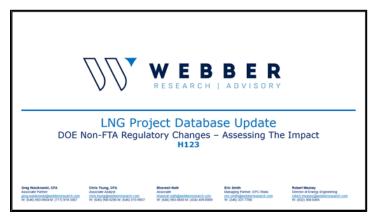
W|EPC Project & Industry Coverage

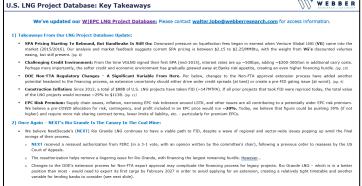
LNG Projects	Relevant Companies	Industries & Alt Fuels
Arctic 2 LNG	ADNOC	Ammonia
Browse LNG	AirProducts (APD)	Ethane
Calcasieu Pass LNG	Baker Hughes (BKR)	Floating Liquefaction
Cameron LNG	Bechtel	Floating Regas
Commonwealth LNG	Cheniere (LNG, CQP)	Hydrogen
Corpus Christi LNG	Chevron (CVX)	Liquefaction
Costa Azul (ECA)	Chiyoda Corp. (CHYCY)	LNG
CP2 LNG	Energy Transfer (ET)	LNG Bunkers
Delfin LNG	Enterprise Product Partners (EPD)	LNG Carriers
Driftwood LNG	ExxonMobil (XOM)	Methanol
Elba Island LNG	Fluor (FLR)	Micro-grids
Freeport LNG	Golar LNG (GLNG)	Natural Gas
Fujairah LNG	JGC Holdings (JGCCY)	Nuclear
Golden Pass LNG	KBR, Inc. (KBR)	PDH
Lake Charles LNG	Kiewit	Petro-Chemicals
LNG Canada	Kinder Morgan (KMI)	and more
Mozambique Area 1	Kosmos (KOS)	
Nigeria Train 7	McDermott (MCDIF)	
Plaquemines LNG	Methanex (MEOH)	
PNG LNG	Mexico Pacific Limited	
Port Arthur LNG	New Fortress Energy (NFE)	
Qatar NFE	NextDecade (NEXT)	
Rio Grande LNG	Petronas (PNAGF)	
Rovuma LNG: Area 4	Qatar Energy (QE)	
Sabine Pass LNG	Sempra Infrastructure (SRE)	
Saguaro LNG (MPL)	Shell (SHEL)	
Tortue LNG	TotalEnergies (TTE)	
and more	Woodside Energy (WDS)	
	Worley Ltd. (WYGPY)	
	and more	



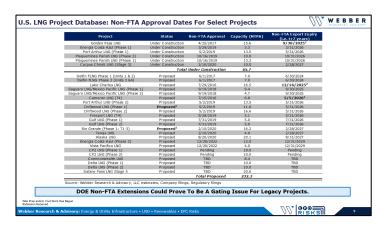


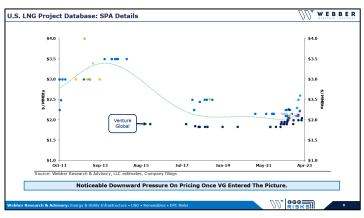
LNG Project Database: Unapparelled Detail & Depth

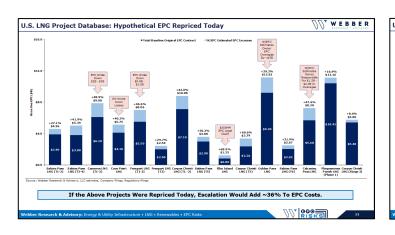


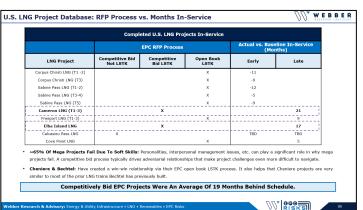


W RISKS













W|EPC LNG Project Deep Dives: In-House Project Curves, Insight, & Analysis

Golden Pass LNG Project Update: Q221 Key Takeaways



1. New Forecasted EPC Costs (~\$11.6B) - ~\$2.4B Higher Than The Original EPC Contract Value (~\$9.2B)

- On May 19, 2021, Golden Pass LNG (GPX) requested approval to increase the construction workhours & on-site peak labor until the end of the project (Dec 2025). The new forecasted construction peak (7,700) is ~165% higher than GPX's pre-FID forecast (2,900). (pages 3 & 4)
 - Cost Impact: The increased labor costs alone could add ~\$3.8B to the EPC costs. (page 5)
 - Project Schedule: GPX is currently maintaining their completion date of late 2025. Our experience & recent project comps (i.e., Cameron LNG) suggest this strategy (drastic increase in construction labor/cost to chase the original schedule) may not be successful and put balance sheets in harms way. (page 6)
 - o Progress Has Stalled: Adding ~42MM construction hours to the project schedule, primarily from 2022 to 2025, dilutes previously achieved progress. (page 7)

2. Engineering Delays & Changes Continue

- In the last ~45-days, GPX has submitted at least (7) variances &/or engineering design changes to FERC. FERC needs to approve the revised engineering drawings before GPX is authorized to proceed with the requested construction activity. (page 8)
 - What It Means: Engineering changes always delay construction activities & increase risks on higher-cost, more skilled construction labor.
 - Construction Change Orders: Zachry & McDermott (MDR), Chiyoda's EPC partners, are likely impacted by Chiyoda's engineering progress & could result in internal change orders.

3. Chiyoda (6366-JP), ExxonMobil ((OM), & NcDermott (MCDIF) - Questions You Should Be Asking

- o Bigger picture analysis XOM & Oatar Petroleum (QP) needs Chiyoda to stay in business (Chiyoda is partnered with Technip Energies to build QP's North Field Expansion Project). To better understand the dynamics of the changes & who might be responsible for billions in cost increases, we suggest asking Chiyoda, XOM, & MCDIF the following questions:
 - o Increased Capacity: What was the impact to Chiyoda's engineering efforts, if any, when the GPX facility increased its capacity in June 2020? Did Chiyoda receive change orders?
 - o COVID-19: Has COVID-19 impacted the project's on-site construction activities? Has Chiyoda's late engineering impacted potential Force Majeure claims?
 - o Geotechnical Data: The piling design keeps changing; Is the geotechnical report rely-upon or is the EPC consortium assuming full responsibility for any changes?

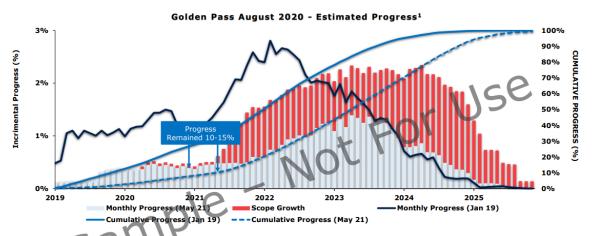
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Impact Of Increased Hours On EPC Progress





- As labor hours are added to a project (via Change Orders), the previously achieved progress has been diluted.
 - In December 2020, W|EPC forecasted the project was 10-15% complete.
 - 5 Months Later, WIEPC is still forecasting the project is 10-15% complete due to the increased labor hours added.

~42MM Labor Hours Were Added To the Project, Which Dilutes Previously Completed Progress Claims.

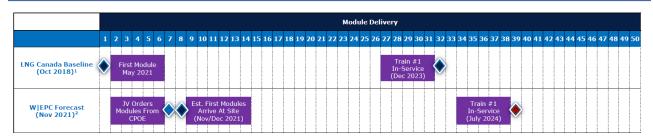
WEPC Analysis OF Company & Regulatory Filings



W|EPC LNG Project Deep Dives: Estimated Timelines & Aerial Image Analysis

LNG Canada Q421 Update: Module Delivery (Baseline vs. November 2021)





- ~7-Month Delay On First Modules: In Nov 2018, Fluor indicated the first modules would arrive in Q221. In Oct 2021, Fluor shipped 16 modules (out of 192) from China to arrive Nov/Dec 2021... ~7 months behind schedule.
- COVID Status: Yes, COVID has impacted the project; however, Fluor/JGC were behind schedule and overstaffing the project before COVID, which could limit their Force Majeure (FM) claims.
 - · Fluor has announced an agreement for COVID impacts on engineering & procurement but no mention of construction.
- History: In Q313, CPChem awarded Fluor & JGC a ~\$6B EPC contract for an Ethylene Cracker in Texas. ~39 months later, Fluor/JGC announced the
 project would be over budget & 12-months late. To date, Fluor has not indicated possible losses/issues on LNGC. In our opinion, they are giving the
 notion things are okay even with COVID and the delays. For the sake of shareholders, let's hope this isn't a repeat of CPChem.

First Modules Are ~7-Months Late & Fluor Has Not Commented On \$B's In Construction FM Claims.

Comments From Project Open House in November 2018
 W|EPC Estimate Based on Comps & Public Data

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LNG Canada Q421 Update: Aerial Images





Utilities & Water Treatment Equipment Set But No Steel Or Pipe.

1) WEPC Analysis OF Company & Regulatory Filing:



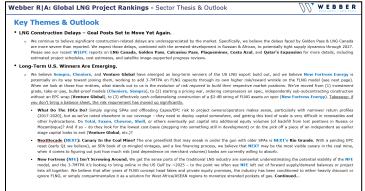






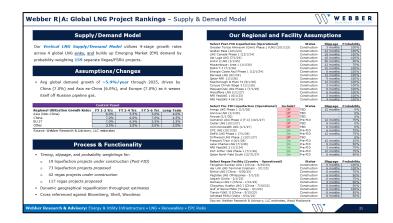
Global LNG Project Rankings: W/ Multi-Factor Supply Demand Model

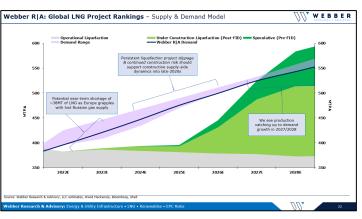
















Full Research Library Access:

Our Library Includes:

- Historical reports & presentations (via Blue Matrix)
- Access to our proprietary W|EPC Project Data Base
- Relevant company & industry Models
- Industry data, satellite images, & supporting documentation (via secure data room)

Rewelse Q1 Earnings Roundup PLUG, BLDP, & CLNE. Earnings Recap, PT & Est. Updates BLM (C1) Earnings Roundup PLUG, BLDP, & CLNE. Earnings Recap, PT & Est. Updates BLM (C2) Earnings Roundup SED & TPIC RNV C10 Mink With CED/CD Key Takeaways & Notes C11 Mink With Strong Q2 Outlook. Earnings Recap, PT & Est. Updates DHT (C1) Grig Wastoonski, CFA (Company, Note May 1) 2023 013291M. MRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter? AMRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter? PLP (C1) Carget Debases Updates to Industry Note May 60 2023 03297M. MRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter? PLP (C1) Carget Debases Updates to Industry Note May 60 2023 03297M. MRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C1) Carget Debases Updates to Industry Note May 60 2023 03297M. MRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C1) Carget Debases Updates to Industry Note May 60 2023 03297M. MRC (Minked Q1 & Q2 Guidance Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C2) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C3) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C3) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C3) Carget Maintain Uncertainty Around 2024 Targets, But Does It Really Matter) PLP (C3) Ca	itle	□ Symbol □	Author 1	Type 11	Date 1	11
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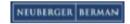
















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Key Team Members



Mike Webber, Managing Partner
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Mike co-founded Armistead Street Capital Partners and Webber Research & Advisory in 2019, before which he spent 15-years in finance and equity research roles covering Renewables, LNG & Energy Infrastructure, Shipping, & Transportation at Wells Fargo & Deutsche Bank. Mike was Institutional Investor's #1 ranked LNG & Shipping Analyst for 5 consecutive years (2015, 2016, 2017, 2018, 2019). Mike finished as runner-up in 2020, while guiding Webber Research to become the only new U.S. research firm to receive ranked recognition in any sector.



Greg Wasikowski, Associate Partner Greg.Wasikowski@webberresearch.com - (646) 993-0694

Greg co-founded Armistead Street Capital Partners and Webber Research & Advisory in 2019, and leads the equity team for renewables & clean energy. Greg was a senior member of the #1 I.I. ranked Wells Fargo LNG, Shipping, & Equipment Leasing team from 2017-2019, prior to which he worked in Consulting for RSM US LLP.



Eric Smith, Director | Energy & EPC Risk Management Eric.Smith@webberresearch.com - (346) 337-7788

For the last 12+ years, Eric has focused his career in the EPC sector of the energy industry concentrating on large scale energy, LNG, and petrochemical projects. His experience includes leading the commercial efforts for petrochemical and LNG business lines for a global engineering and construction company, supporting the development of a Gulf Coast LNG liquefaction company, and negotiating commercial LNG sales agreements with global LNG buyers.



Robert Meaney, Director | Engineering & Technology Robert.Meaney@webberresearch.com - (832) 368-8456

Robert Meaney has spent the past 12 years of his career in the Government Infrastructure and O&G markets executing \$30 billion in Capital Projects from conceptual design through construction with deep expertise in process technology, project analysis, & construction.



Walter Lobo, Director of Institutional Sales

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Walter Lobo joined Webber Research in September 2020 as Director of Institutional Sales. From 2007 to 2017 Mr. Lobo was a Director of Institutional Sales at Wells Fargo Securities. While at Wells Fargo he managed a diverse book of institutional clients in Europe, New York and the Midwest.



Kamran Javed, Associate Analyst Walter.Lobo@webberresearch.com - (646) 767-6425

Kamran joined Webber Research in 2023, with a focus on LNG. Prior to joining Webber Research, Kamran worked in various roles at JERA Energy America, RasGas, Chevron and ConocoPhillips. He brings over 22 years of experience across the oil and gas value chain with a heavy focus on risk management, strategy, clean products trading and LNG (marketing/trading, economic valuations, strategic planning and commercial shipping).



Qamer Iqbal, Engineering Manager Carbon Capture Qamer.Iqbal@sentinelcorellc.com - (713) 499-9159

For the last 17 years, Qamer has focused his career in the Technology Development and Engineering sectors of the Energy Industry concentrating on large scale Refinery, Midstream and Petrochemical projects. Qamer has a leading expertise in Process Design & Technology, Project Management and for multiple global Engineering and Construction companies.



Toni Su, Engineering Manager H2 Midstream & Emissions Toni.Su@sentinelcorellc.com - (713) 499-9159

Toni Su has over 10 years of experience as a senior technical advisor and project manager for upstream and midstream field operations. Specifically, Toni has designed, constructed, and operated facilities ranging from gas processing and treating (CO2 and Sulphur) to storage and pipeline systems across gas, NGL, and crude commodities.





Dr. Bruno Cateni, Process Engineering | H2 & Ammonia Bruno.Cateni@sentinelcorellc.com - (832) 312-6820

Dr. Cateni has more than 25 years of work experience in downstream and midstream Energy Chemicals, Refining, O&G. His duties have included leadership and engineering support roles in all phases of projects, from conceptual design to detailed engineering and commissioning ISBL and OSBL, capital investment planning, project management, resource planning and financial justification for large scale engineering projects.



Brent Knapton, Project Engineering Manager Brent.Knapton@sentinelcorellc.com - (832) 741-7141

Brent Knapton has more than 30 years of experience in the energy industry managing projects, leading large resource teams and innovating tools and systems to increase efficiency and productivity. He holds a patent entitled "Energy Recovery from Waste Heat Sources" and has managed diverse technical teams in the roles of Project Engineering Manager, Engineering Manager and Lead Engineer.



Bhavesh Nath, AssociateBhavesh.Nath@webberresearch.com - (646) 993-0693

Bhavesh joined Webber Research & Advisory in 2021, prior to which he spent three years with CRISIL (an S&P Global Company) as a Senior Analyst, supporting credit trading at bulge bracket European Investment Banks. Prior to CRISIL, Bhavesh spent five years with Transparent Value Pvt. Ltd. (a Guggenheim Partners Company) as a part of the credit research team working with Guggenheim, focused on both Investment Grade and High Yield credit opportunities across multiple geographies and verticals. Bhavesh has an MBA from N.L. Dalmia Institute of Management Research.

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