

FutureBridge

EXECUTIVE REPORT 2025

How to de-risk your **‘Clean Energy’ business** from systemic shocks like volatile tariff policies?

Actionable insights to futureproof your business against **potential global disruptions.**



Securing your business against future uncertainties



Recalibrating for resilience: Sourcing & CAPEX realignment

Organizations should optimize their current CAPEX and adopt a policy-resilient, risk-adjusted sourcing strategy to build resilience against future market disruptions that may impact the global energy landscape.



Overcoming strategic gridlock with agile investment models

Capital planning gridlock may arise from external shocks such as tariff volatility, stalled energy policies, and uncertain trade alignments—making it crucial to accelerate decision-making through flexible investment models and cross-functional insights to navigate volatility and maintain competitive agility.



Building future-ready, shock-resistant supply chains

To thrive amidst globally impactful disruptions, the supply chain strategy must shift from an efficiency-first to a resilience-first model by localizing critical inputs, partnering with low-risk, diversified suppliers, and embedding digital foresight tools to anticipate disruptions early.

FutureBridge can help futureproof your business through

1

Supply chain vulnerability & vendor evaluation review

to safeguard your business against systemic global shocks.

2

Cost reduction & process optimization strategies

to improve your margins.

3

Policy-resilient project viability models

to derisk your investments

4

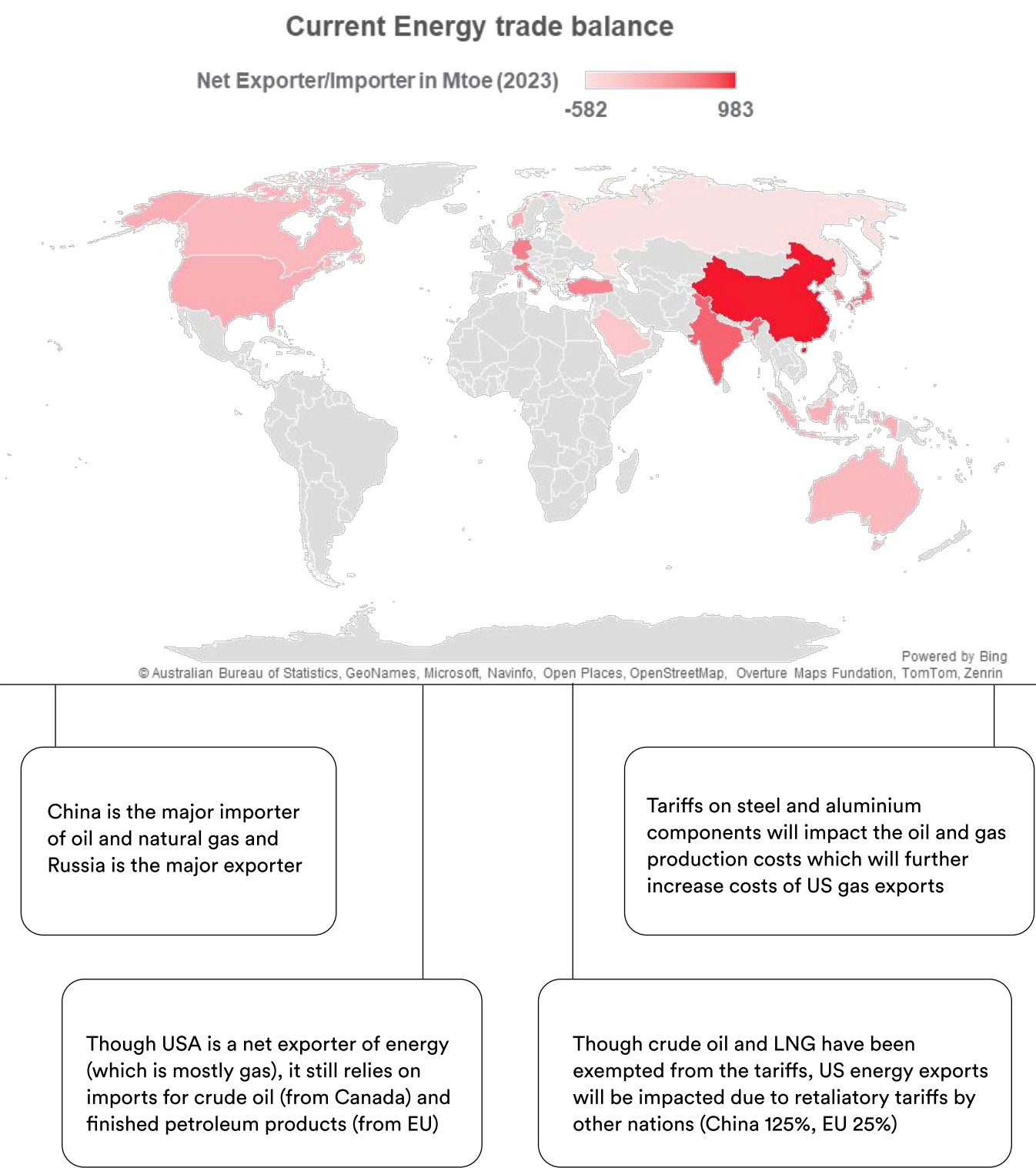
Dynamic IRR Forecasting

to respond quickly to market disruptions.

Talk 1:1 with our Energy experts



If the harshest Trump tariffs are enforced, the WTO projects a 4.2% drop in global trade by 2025, one threatening to destabilize the global energy trade equilibrium.



Global energy balance is likely to disrupt due to Trump tariff in the short - medium term



Unprecedented Trump-era tariffs, and the resulting retaliations, are poised to disrupt billions of dollars in global trade across multiple industries—including energy



Highlights of Trump 2.0 Tariffs – Across the board

10%	Up to 50%	27%
Universal Baseline Tariff	Country Specific Tariff	Average Tariff Rate
A minimum tariff rate applicable on all imports*	Over and above the baseline tariff, there are country specific tariffs** (Excluding Canada/ Mexico). For detailed tariff refer Annex 1	The highest tariff rate since 1920. This was just 2.5% in 2024

* Few goods are exempted . Refer [Annex 2](#)
** Trump has announced a 90-day hiatus on the country-specific tariff rates.

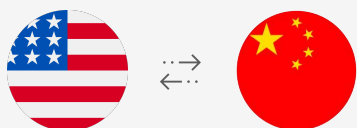
Other Tariffs

25%

- ✓ On all foreign made cars and auto parts into US
- ✓ On steel and aluminium imports, including products made from these metals
- ✓ All imports from Mexico and Canada. However, a lower rate of 10% has been imposed on Canada Energy imports**

Retaliatory Tariffs

Countries like China and Europe have imposed retaliatory tariffs in response to the reciprocal tariffs.

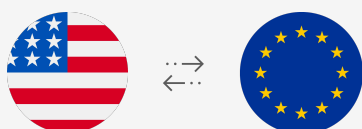


125%

*China's Retaliatory Tariffs

\$145 bn

Worth imports to China impacted***



25%

EU's Retaliatory Tariffs

\$24 bn

Worth imports to EU impacted

* Trump has announced a 90-day hiatus on the country-specific tariff rates.

** Few goods are exempted under USMCA trade pact and Section 232

*** China is considering exemptions for few critical goods.

The U.S. clean energy sector, heavily dependent on imports, is likely to face inflationary cost in the short to medium term, with little relief from current domestic policies.

Tariffs are set to increase costs across the U.S. clean energy supply chain, from wind blades and solar panels to EV batteries

90%

Of the global solar PV manufacturing capacity is in China, majority of the US solar equipment are imported from China.

\$1.9 bn

US lithium-ion batteries imports from China in a month alone (Dec'24). **With 18.2 GW battery storage being added to US energy grid annually, we expect US battery prices to keep increasing.**

100%

Tariffs on Chinese-made EV's, US has banned their sale, however, tariffs on steel and aluminum will drive up EV prices.

With the new tariffs, the rates have increased to 175% for finished solar panels and 195% for PV components imported from China

“

US has been heavily reliant on importing clean power technologies, not just the final goods but also the components used for manufacturing, and this cannot be resolved overnight.



Leslie Abrahams, Senior Fellow, CSIS

\$7.7 billion worth clean energy projects were cancelled in Q1 2025

“

IRA funding freeze has put ‘many’ clean energy projects on pause.



ESGDIVE

“

Tax credit uncertainty risk ‘tens of millions’ in US renewables investment



ACORE

“

Drill, Baby, Drill: How Trump’s MAGA Vision will stall Global Climate Fight



OUTLOOK

EV Industry will be the most impacted sector as Trump revokes the Biden ‘50% EV Target’ mandate

ACORE – American Council on Renewable Energy
[The Biggest Clean Energy Impacts from Trump's Tariffs | TIME](#)

Both conventional fuel (oil, gas) and Clean energy sectors are likely to be impacted by Trump tariffs, creating long-term uncertainty across the board



Oil & Gas

Global oil and gas industry is going through a turmoil, with brent crude at its 3-year low. China stopped importing LNG from US pushing the buyers to look for alternate sources for their energy requirements. OPEC+ also increased their oil output which pushed the oil prices further down. We see this trend continuing at least in the short to medium terms



Renewable Power

Tariffs will have a significant global impact on clean energy trade. With restricted imports to the USA, China is already seeking alternative buyers for its surplus capacities. This shift could potentially drive down the prices of clean energy components beyond US, reshaping the global market dynamics



Green Hydrogen

The cost of green hydrogen in the US is expected to rise as production costs increase. This is primarily due to higher prices for components such as solar panels, wind blades and electrolyzers (steel, aluminum and other rare earth metals)



Carbon Capture

The tariff impact would depend on the advanced materials and equipment imports required for CCUS technology. However, in the short term, companies might realign their priorities due to Trump pro-fossil agenda and US withdrawal from the Paris Agreement. In the US, pausing of IRA incentives on clean tech like CCUS is expected to slowdown investments



Biofuels

Domestically produced bio-fuel prices are expected to remain same. However, the costs of setting up new bio-fuel plants are expected to rise as the equipment and components required for plant setup are imported

Trade Tensions Trigger Long-Term Concerns in Global Energy Markets

The global energy sector has also voiced concerns given the uncertainty and risks triggered by tariffs, signaling potential long-term disruptions

“



Trump's trade tariffs add another level of uncertainty to LNG market.



Tom Summers

Senior LNG Marketing
Executive, Shell

“



Donald Trump's tariffs will raise prices, create market inefficiencies and stunt economic growth.



Mike Hall

CEO, Anza
Renewables

“



This could be a potential de-railer when we really have to usher in this new era of energy dominance to put the US at the epicentre of data centers and AI technology. It is unsettling from a business perspective and creates disruption.



Sandhya Ganapathy

Chief Executive, EDP Renewables

“



The sweeping tariffs introduced by US president Donald Trump could lead to higher electricity prices around the world.



Hendrik Andersen

CEO, Vestas (leading wind
turbine manufacturer)

Energy companies are facing yet another VUCA moment. How can the sector prepare to reduce the fallout?

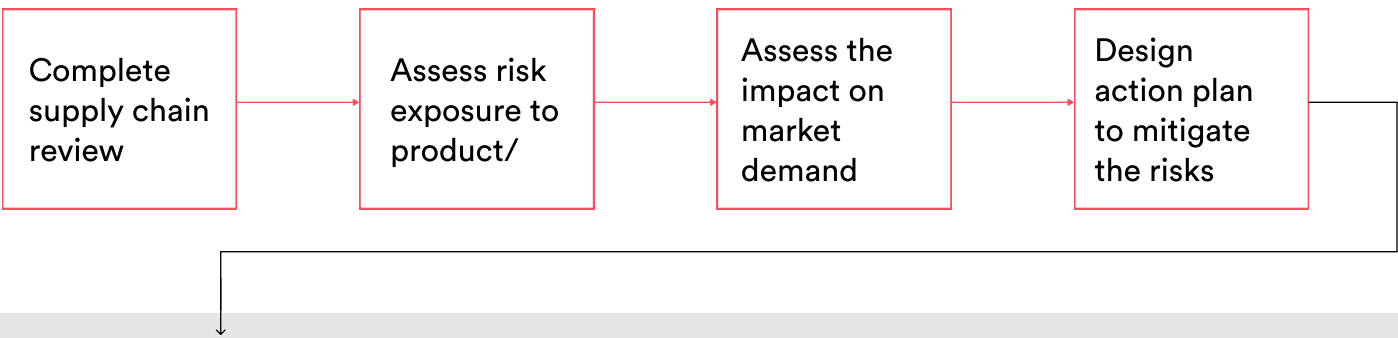
What is happening today due to tariff uncertainty?

- Delayed decision making

Clean energy investments, already uncertain due to IRA funding freeze, have been further impacted.

Companies may prioritize cost reduction and process optimization initiatives over clean energy investments

What companies must do?



How can the companies plan to mitigate the tariff impact

Market growth	High	<div>✓ Prioritize product/ geography mix</div> <div>✓ Invest in new projects and expand footprint</div>	<div>✓ Invest in cost reduction projects</div> <div>✓ Rethink supply chain</div>
	Low	<div>✓ Maintain market share</div> <div>✓ Diversify into new products</div>	<div>✓ Rethink strategy - Innovate or divest</div>
		Low	High
		Cost Position vis-a-vis domestic production	

How can FutureBridge support in navigating these uncertainties



Supply Chain vulnerability review – To assess the tariff exposure and design risk mitigation strategies



Evaluation of shifts in the market demand and technology choices



Assist in exploring alternate suppliers and markets



Competitor assessment – Evaluating the impact on competitors



Realign and validate business strategies

Talk 1:1 with our Energy experts



FutureBridge

About FutureBridge Energy practice



FutureBridge offerings across the 8 pillars of energy transition



CCUS & carbon trading

- Industrial carbon capture
- Carbon dioxide removal including BECCS and DACS
- Carbon storage and transportation
- Carbon utilization & sequestration
- Carbon offsets and credits



Electricity

- Renewable energy options: Wind, solar, geothermal
- New sources of energy (ocean/ tidal)
- Low carbon energy: Nuclear
- 24/7 Carbon free electricity
- Energy storage
- Flexible generation
- EV charging
- Electricity trading



Heating & cooling

- Waste heat recovery
- Renewable heating & cooling



Future of oil & gas and energy utilities

- Decarbonization of assets
- Energy intensity reduction
- Industrial revolution 5.0
- Adjacent sector technologies

ENERGY TRANSITION INITIATIVES

Hydrogen & its derivatives including E-fuels

- Hydrogen (Green, Blue, Turquoise, Pink...)
- Offshore & onshore Green hydrogen
- Hydrogen value chain including last mile connectivity
- E fuels – E-Methanol, E Ammonia, E-methane, E-SAF

H₂

Biofuels

- Biofuels : Renewable & biodiesel
- Bio-methane
- Waste to fuels
- SAF

Digitalization

- Digital readiness assessment
- Digital solution discovery
- Digital partner selection

Scope 1-2-3 emissions reduction for hard to abate sectors

- SBTi targets & GHG emissions
- Lifecycle assessment
- Energy intensity reduction
- Process & equipment optimization

Our Energy team

With over 100 years of combined global experience, our Energy team delivers cutting-edge solutions to global clients across emerging domains such as **Energy Transition, Decarbonization and Green Fuels.**



Mukesh Dhiman 

Practice Head

With **23+ years of experience**, Mukesh guides global energy clients through transition, innovation, and growth strategies across emerging domains.



Devay Gupta 

Senior Director

With **18+ years of experience**, Devay drives growth and transformation for global energy clients across oil, gas, and emerging green fuel domains.



Saurabh Jain 

Director

With **20+ years of experience**, Saurabh leads energy transition and decarbonization strategies for global clients across the US, Europe, and Asia.



Saurabh Uniyal 

Associate Director

With **15+ years of experience**, Saurabh leads strategic advisory and management consulting initiatives for global energy clients with a focus on new energies & sustainable solutions.

Schedule a 1:1 deep dive session





Our addresses



North America

55 Madison Ave, Suite 400,
Morristown, NJ 07960, USA



Europe

WTC Utrecht, Stadsplateau 7,
3521 AZ Utrecht, The Netherlands



United Kingdom

Holborn Gate, 330 High Holborn,
London, WC1V 7QH, UK



Asia-Pacific

Millennium Business Park, Sector 3,
Building 4, Mahape, Navi Mumbai, India



FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective.



www.futurebridge.com