# PIONEER



THE MAGAZINE OF QATARENERGY LNG

ISSUE 165, JULY 2024

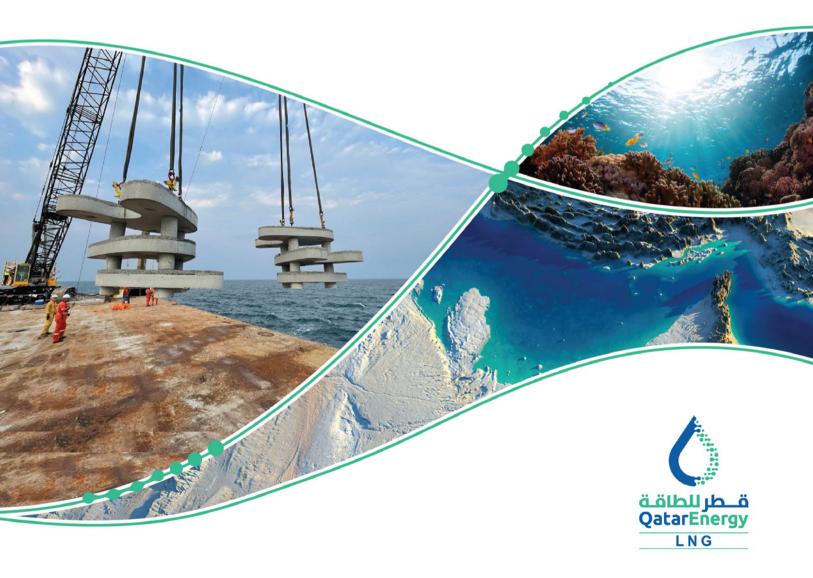


# World Class Environmental Performance for Major Projects

QatarEnergy LNG's Major Projects, comprising its LNG expansion and production sustainability facilities, are a critical element of the State of Qatar's long-term vision to enable the global transition towards cleaner and lower-carbon energy sources. QatarEnergy LNG has made significant investments in its Major Projects portfolio to incorporate advanced environmental controls and technologies, which ensure that the Company fulfils this key objective for the country while setting the benchmark for world-class environmental performance.

Our North Field Expansion Project (NFXP), the largest in the LNG sector, features one of the largest CO<sub>2</sub> capture and sequestration systems in the LNG industry with a capacity to inject **3.2 million tonnes per annum (MTPA) of CO<sub>2</sub>.** 

As part of our commitment to preserving Qatar's marine biodiversity, we have successfully relocated over **5,500 corals** from our Major Projects development areas to protected offshore sites. Additionally, approximately **15,000 juvenile corals**, nurtured in a first of its kind land-based Coral Nursery pioneered by QatarEnergy LNG, have been successfully transplanted to various natural habitats within Qatari waters.





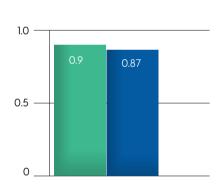
### **QatarEnergy LNG Corporate Scorecard**

YEAR TO DATE APRIL 2024

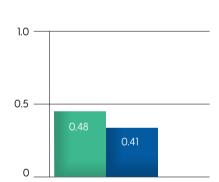


### SAFETY, HEALTH AND ENVIRONMENTAL PERFORMANCE





### Flaring (Onshore) {% of Sweet Gas}



Actual

### **QATARIZATION**

Actual

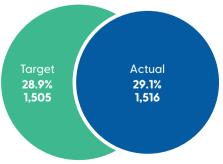
A High Calibre and Diverse Workforce {Total Headcount}

Target



**EFFICIENT AND RELIABLE OPERATIONS** 

Target



# Contents

# **PIONEER**

THE MAGAZINE OF QATARENERGY LNG

### **Editorial Team**

Editor in Chief: Ivan Giesbrecht

Editor:

### Thajudeen V. Aliar

Associate Editor: Eiman Fakhroo

Arabic Editor: **AlaAldin AlNaiiar** 

### **Published by**

The Public Relations Department QatarEnergy LNG

### **QatarEnergy LNG**

P.O. Box 22666 Doha, Qatar Tel: +974 4452 3224 Fax: +974 4473 6628 Email: media@qatarenergyIng.qa

(C) Copyright @ QatarEnergy LNG. All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise without the prior permission of the Public Relations Department, QatarEnergy LNG.



Printed on recycled paper



Scan QR CODE TO VISIT OUR WEBSITE

Follow QatarEnergy LNG











### **Message from the CEO**

### > 04-07

### **QatarEnergy LNG's** 2024-2028 Strategic Plan

Building on remarkable success.

### Sustainable energy transition takes centrestage

CEO highlights Company's commitment to a sustainable energy transition at Baker Hughes Annual Meeting.

### **Recognising safety** excellence

QatarEnergy LNG commended by TotalEnergies for outstanding safety performance and operational excellence.

### **Record-breaking support** for safety

Record attendance at QatarEnergy LNG's Safety Day





### > 12

### **Bringing the safety** message home in Korea

CEO emphasises collaboration, teamwork as safety critical success factors during Korean Shipyard visit.

### > 13

### Strategic talks with Baker Hughes

QatarEnergy LNG and Baker Hughes meet to explore avenues for further collaboration

### > 14-15

### **Moving forward with Barzan Gas**

Barzan Gas Diversion Project to be completed by QatarEnergy LNG as a top priority.

### **Sustaining Qatar's LNG** production

Large-scale NFPS Projects to secure Qatar's long-term gas production.

### 20 years of fostering generations of young engineers

Annual Plant Design Contest sponsored by QatarEnergy LNG celebrates 20th anniversary.

### **Spotting future talent**

QatarEnergy LNG reaches out to young, brilliant minds at Career Village and Outreach



### Streamlined accountability assures environmental success

QatarEnergy LNG Major Projects achieves significant success through effective implementation of Environmental Permitting.

# **CHARTING A BOLD FUTURE**



QatarEnergy LNG is in a defining moment as a company. As we reflect on the incredible milestones we achieved over the last four decades, I am both humbled by and proud of our remarkable progress.

Looking forward, our 2024-2028 Strategic Plan reaffirms our unwavering commitment to excellence, sustainability, and growth. It builds on our past achievements and sets QatarEnergy LNG on a course for a bold future.

A vital part of this future includes unprecedented growth. Earlier this year it was announced that we are expanding our production capacity to 142 million tonnes per annum by 2030. This industry-leading plan will help us meet the growing global demand for cleaner energy while maintaining our commitment to operational excellence and sustainability.

# Groundbreaking performance and innovation

Last year's rebranding from Qatargas to QatarEnergy LNG is not just a name change – it is a public statement of a new era recognising our integral role within the QatarEnergy family and solidifying our commitment to Qatar's global energy leadership.

This leadership is built on performance and innovation. In 2023, we safely completed six planned shutdowns and initiated groundbreaking projects such as the North Field Expansion Project (NFXP). Our Drilling and Completions Department set a world record, and we took a critical step towards sustainability with the award of the FEED contract for our  $\mathrm{CO}_2$  sequestration project.

Our safety performance in 2023 was exemplary, and we made significant strides in environmental sustainability, maintaining strong flaring and greenhouse gas performances.

These accomplishments, along with numerous industry recognitions, reflect the steadfast dedication that has assured our position at the forefront of our industry.

## 2024-2028: Driving growth and sustainability

While we celebrate our achievements, we must set the path for the future to ensure QatarEnergy LNG continues to innovate, grow, and sustain.

The Company's 2024–2028 Strategic Plan outlines a robust focus on safety, sustainability, operational excellence, and customer satisfaction. Developed through a comprehensive process involving key managers, subject matter experts, and shareholders, the strategy incorporates invaluable perspectives and insights from all stakeholders.

Safety and protecting our people remain top priorities, with a focus on maintaining an incident- and injury-free workplace. Achieving and surpassing Qatarization targets through a skill-based strategy, attracting and retaining top talent, and investing in employee development are also core to our continued success.

Environmental sustainability is integral with initiatives such as CO<sub>2</sub> sequestration, enhanced flaring performance, and the use of innovative technologies set to further reduce our environmental impact.

As we embark on this next chapter, we will continue to deliver unparalleled value to our stakeholders and contribute to global energy sustainability. I invite all of you to join us in achieving new heights and setting new standards in our industry.

### Khalid bin Khalifa Al Thani

Chief Executive Officer QatarEnergy LNG

# QatarEnergy LNG's 2024-2028 Strategic Plan: Building on remarkable success

QatarEnergy LNG's 2023 Town Hall reflects on the past year's successes as the Company consolidates its rebranding and commits to a raft of ambitious goals for continued growth and impact.



Led by the CEO, Khalid bin Al Thani, employees celebrated the successes of the past year at the QatarEnergy LNG annual Town Hall Meeting in late 2023, at which the Company's 2024-2028 strategic direction and goals were presented.

QatarEnergy LNG's annual Town Hall meeting, held in late 2023, proved the ideal occasion to present the Company's 2024-2028 strategic direction and goals.

Led by QatarEnergy LNG Chief Executive Officer, Khalid bin Khalifa Al Thani, employees celebrated the achievements of the year and reflected on the Company's journey, most significantly on the importance of the rebranding from Qatargas to QatarEnergy LNG, which emphasises the Company's value-adding role to parent brand, QatarEnergy, and strengthens Qatar's global positioning.

# 2023 Achievements: A year of milestones

The success of this rebranding represents more than just a logo and name change; it marks a new stage in

our journey which started 39 years ago as Qatargas – an ambitious company that has become a leading global operator in terms of scale, service, and reliability.

The relaunch of the Direction Statement was indeed a highlight of the Town Hall and emphasises environmental stewardship, social responsibility and robust governance practices.

777.58
feet
The Drilling and Completions
Department set a world record
by achieving the longest core

in a single run, measuring

777.58 feet.

In terms of projects and operations, 2023 was a banner year for the Company and included the safe completion of six planned shutdowns and the initiation of groundbreaking major projects, such as the North Field Expansion Project (NFXP).

The Company's Drilling and Completions Department set a world record by achieving the longest core in a single run, measuring 777.58 feet. The recordbreaking core recovery was achieved on the Energy Embracer rig, which was drilling the NF-25A well as part of the North Field Appraisal Project. This is a 43.6-foot improvement over the previous world record, which was achieved in 2022 on the NF-26 appraisal well.

Additionally, the award of the Front-End Engineering Design (FEED) contract for the carbon dioxide (CO<sub>2</sub>) sequestration project was a critical step towards sustainability and reducing the Company's carbon footprint.

Further significant achievements were reached in safety, and the Company's safety record in 2023 was indeed exemplary, with a Lost-Time Injury Rate (LTIR) of 0.13 and a Serious Injury Frequency Rate (SIFR) of 0.01 over

165.3 million man-hours – an incredible accomplishment.

Noteworthy recognitions included the 'Asset of the Year' and 'Goal Zero' awards from ExxonMobil Qatar and exceptional safety performance acknowledgements from TotalEnergies.

QatarEnergy LNG also made substantial strides in environmental sustainability. The Company maintained strong flaring and greenhouse gas performances against targets, including Jetty Boil-off Gas (JBOG) recovery of 89.3% against the year-end target of 90%, and launched initiatives such as the methane emissions quantification, using drones.

In terms of Qatarization, the Company achieved a Qatarization rate of 28.6%, an accomplishment recognised with a Crystal Award for exemplary support of Qatarization.



Unveiling of QatarEnergy LNG's updated Direction Statement.

In terms of projects and operations, 2023 was a banner year for the QatarEnergy LNG, and included the safe completion of six planned shutdowns and the initiation of groundbreaking major projects, such as the North Field Expansion Project (NFXP).

Moreover, the Company received the 'We Invest in People' Gold Accreditation from Investors in People (IIP), an international standard for exceptional people management.

# 2024 Focus: Driving growth and sustainability

The Strategic Plan 2024-2028 was developed through a comprehensive process, led by QatarEnergy LNG Corporate Planning, involving both bottom-up and top-down approaches. This inclusive strategy ensures that

the perspectives and insights of all stakeholders are incorporated.

Key managers and subject matter experts participated in workshops to discuss performance and aspirations, while shareholders provided valuable input during strategic interviews. The Management Leadership Team (MLT) contributed to the top-down direction, culminating in an off-site meeting to finalise and validate the Company's strategic direction.

Looking ahead, one of the primary goals for 2024 is to sustain and increase liquid natural gas (LNG) production.

This objective, which aims to build on the momentum gained in 2023, involves ramping up production capacity to meet growing global demand while maintaining operational excellence and sustainability.

Critical to meeting this goal is ensuring the safety of our workforce, and a cornerstone of the strategic plan is thus a commitment to an incident- and injury-free workplace. By fostering a culture of safety and continuous improvement, QatarEnergy LNG aims to maintain its industry-leading safety performance and protect its most valuable asset – its people.

Achieving and surpassing Qatrization targets through a skill-based strategy, along with continuing to attract and retain a top-calibre workforce, are among the Company's core people objectives. Coupled with continued investment in employee development and recognition programmes, this will ensure that QatarEnergy LNG remains a leader in the industry.

Strong emphasis has also been placed on environmental sustainability. The Company continues to be committed to reducing its environmental impact through initiatives such as  $CO_2$  sequestration, enhanced flaring performance and the implementation of innovative projects, for example, the use of drones for methane emission monitoring.

Innovation is indeed at the heart of QatarEnergy LNG's strategic vision. The Company plans to generate value through innovative solutions, leveraging digital technologies and capacity enhancements, ensuring readiness to operate and effectively execute investments and projects.

### **QatarEnergy LNG Direction Statement**

QatarEnergy LNG strategy is designed to facilitate the achievement of the Direction Statement and its vision to be 'The World's Premier LNG Company'. The purpose of the QatarEnergy LNG Strategic Plan is to translate the strategy into a measurable execution plan, in order to achieve the strategic goals and desired outcomes. QatarEnergy LNG seeks to achieve Premier Performance through focusing on six Strategic Pillars. The Strategic Pillars represent the key priorities and the focus areas where QatarEnergy LNG will deploy resources and efforts for the next five years. Strategic Goals, Key Performance Indicators, and Strategic Initiatives are defined for every Strategic Pillar for effective execution of the strategy.



### **QatarEnergy LNG Strategic Pillars**



Safety, Health and Environmental Sustainability



High Calibre Workforce



Efficient and Reliable Operations



Quality and Flawless Execution



**Customer Satisfaction** 



Financial Performance

A culture of innovation works hand-inhand with the reliability culture intrinsic to the Company, where improving uptime, reliability and utilisation to achieve full plant capacity is a critical focus. To achieve this, QatarEnergy LNG plans to drive efficiency and ownership at all levels through rigorous maintenance schedules, advanced technology deployment and continuous process improvements.

A customer-centric approach, exceptional health, safety and environmental (HSE) performance, and reliable deliveries, will continue to build the Company's competitive edge.

# The remarkable journey continues

The Strategic Plan 2024-2028 outlines a strong focus on safety, sustainability, operational excellence and customer satisfaction, ensuring that the Company is well-positioned to navigate future challenges and capitalise on opportunities.

As QatarEnergy LNG embarks on this next step in what has been a remarkable journey thus far, the Company remains dedicated to the vision of being the world's premier LNG supplier, delivering value to stakeholders and contributing to alobal energy sustainability.

94%

QatarEnergy LNG received positive feedback from 94% of LNG customers, reflecting excellent service flexibility and reliability.

Looking ahead, one of the primary announcements for 2024 is to further increase LNG production to 142 million tonnes per annum by 2030. This objective, which aims to build on the momentum gained in 2023, involves ramping up production capacity to meet growing global demand while maintaining operational excellence and sustainability.



CEO Khalid bin Khalifa Al Thani is pictured on a site visit to the Company's North Field Bravo offshore operations.



In his keynote address to the audience of industry leaders and stakeholders, the CEO highlighted the two companies' shared commitment to the energy transition journey.

The CEO was accompanied at the Baker Hughes Annual Meeting by a delegation that included members of the Management Leadership Team and other senior leaders from QatarEnergy LNG. In his keynote address to the audience of industry leaders and stakeholders, the CEO highlighted the Company's shared commitment with Baker Hughes to the energy transition journey, and outlined QatarEnergy LNG's ambitious plans for expansion and innovation in the liquefied natural gas (LNG) sector.

"At QatarEnergy LNG, we are deeply committed to advancing the global energy transition while ensuring sustainable and reliable access to clean energy for nations worldwide," said the CEO. "Our strategic investments and megaprojects underscore our unwavering commitment to meeting the growing demand for LNG while minimising our environmental footprint."

The CEO emphasised QatarEnergy LNG's ongoing efforts to expand its production capacity, with plans underway to increase production from 77 million tonnes per annum (MTPA) to 126 MTPA.

"We are executing several megaprojects in Qatar's North Field, including the construction of offshore platforms and LNG trains, to significantly boost our production capacity and meet the

evolving needs of the global energy market," he said.

The CEO highlighted QatarEnergy LNG's environmental stewardship and outlined the Company's initiatives to mitigate carbon emissions and protect marine ecosystems. These efforts include the implementation of the Coral Management Programme and a CO<sub>2</sub> sequestration project aimed at capturing millions of metric tons of CO<sub>2</sub> annually.

"Our commitment to environmental sustainability is integral to our business philosophy, and we are proud to lead the way in implementing innovative solutions to address climate change and protect our planet," he said.

The CEO also emphasised LNG's importance as a cleaner and more efficient alternative to traditional fossil

"LNG is not an obstacle to the energy transition: it is the solution. As one of the safest and cleanest fuels available. LNG plays a crucial role in meeting the world's energy needs while reducing environmental impact."

In conclusion, the CEO expressed optimism about the future of the energy transition and thanked Baker Hughes Chairman and CEO Lorenzo Simonelli for organising the Annual Meeting.



QatarEnergy LNG CEO, Khalid bin Khalifa Al Thani, and members of the QatarEnergy LNG delegation at the Baker Hughes Annual Meeting in Florence, Italy.

# QatarEnergy LNG commended by TotalEnergies for outstanding safety performance and operational excellence

QatarEnergy LNG was honoured with three awards at a special ceremony in April by one of its long-standing partners, TotalEnergies Qatar, for the Company's outstanding safety performance and operational excellence.

The occasion underscored the commitment to excellence shared by QatarEnergy LNG and TotalEnergies, which is evident across our projects, reinforcing our pursuit of the highest standards within the industry.

Mansur Zhakupov, TotalEnergies Country Chair and Managing Director TotalEnergies EP Qatar, presented three awards to commend QatarEnergy LNG's Operations' outstanding achievements.

Khalifa Ahmed Al Sulaiti, Chief Health, Safety, Environment and Quality Officer, and Ahmed Al Fadhala, N2 Asset Manager, accepted the HSE Award for Five Years without LTI in N2 Operations. This recognition is a reflection of QatarEnergy LNG's unwavering commitment to prioritising safety above all else.

In addition, Nafez Bseiso, Chief Major Projects Officer, and Abdulaziz Al-Naimi, Senior Project Manager – NFPS, accepted the accolade for celebrating 20 Million Manhours Safe on the EPCOL Project. This achievement underscores our dedication to safety within the complexities of offshore gas infrastructure development.

Ahmad Ashkanani, North Onshore Operations Manager, received the Beyond Excellence Award 2023 for operational excellence and outstanding performance in safety, operations, and production. This recognition highlights QatarEnergy LNG's efficiency in surpassing industry standards and setting new benchmarks for excellence.

Key accomplishments include two consecutive years of producing 16



Khalid bin Khalifa Al Thani, Chief Executive Officer of QatarEnergy LNG, was joined by Mansur Zhakupov, TotalEnergies Country Chair and Managing Director, TotalEnergies EP Qatar and senior management from QatarEnergy LNG and TotalEnergies Qatar to congratulate the winners of the three awards.

million tonnes of LNG. Our team's innovative approach enabled increased utilisation of LNG Train 4, contributing to the industry's standards in LNG production.

Moreover, the scheduled shutdown of Train 5 was safely executed and completed on time from October to November 2023, enhancing the integrity and maintenance of critical components within the operation, including the maintenance of liquefaction process turbines.

This level of recognition from TotalEnergies Qatar underscores QatarEnergy LNG's ongoing commitment to safety, operational excellence and innovation in the LNG industry, setting new standards for the future.

TotalEnergies Qatar presented three awards to commend the outstanding achievements of QatarEnergy LNG's Operations.

- HSE Award for Five Years without LTI in N2 Operations: Khalifa Ahmed Al-Sulaiti, Chief Health, Safety, Environment and Quality Officer and Ahmed Al-Fadhala, N2 Asset Manager
- Beyond Excellence Award 2023: Ahmad Ashkanani, North Onshore Operations Manager
- 20 Million Manhours Safe on the EPCOL Project: Nafez Bseiso, Chief Major Projects Officer and Abdulaziz Al-Naimi, Senior Project Manager – NFPS

# Record attendance at QatarEnergy LNG's Safety Day 2024



QatarEnergy LNG's Safety Day Summit 2024.

QatarEnergy LNG's third annual Safety Day was a resounding success, with record attendance and widespread industry recognition. This year, we once again gathered to celebrate our commitment to safety in the workplace and reaffirmed our pledge to ensure the continued well-being of our employees, contractors, and stakeholders.

Hosted by the Company at multiple locations over several days at QatarEnergy LNG's Doha headquarters, Operations sites, Major Projects sites at Ras Laffan Industrial City, and with further events planned offshore, this year's Safety Day attracted more than 60,000 visitors, the largest turnout in the event's three-year history.

Highlights included live demonstrations, virtual reality and Artificial Intelligence (AI) simulations, interactive activities, competitions, and more. There was something for everyone to engage with and learn from. Visitors were able to experience many of QatarEnergy LNG's most innovative and industry-leading safety achievements, initiatives and programmes first-hand.

Employees drawn from across
QatarEnergy LNG departments and
groups, shareholder representatives
and external agencies – including
ExxonMobil, TotalEnergies, Mowasalat,
the Ministry of Interior (MOI) and
Lekhwiya – were on hand to showcase
their latest technologies, including
cutting-edge virtual training simulations.

These collaborations highlight the Company's dedication to innovation as well as QatarEnergy LNG's leading position at the forefront of modern safety practices in the industry, affirmed by leading Company leaders in attendance.

Khalid bin Khalifa Al Thani,
Chief Executive Officer (CEO) of
QatarEnergy LNG said, "Safety Day is
a unique celebration of our collective
achievements in prioritising safety
across our operations. This occasion
allows us to emphasise our holistic
approach to safety. Our success in
fostering an incident- and injury-free
culture is a testament to the hard work,
commitment, and dedication of our
entire team."

60,000

The 2024 QatarEnergy LNG Safety Day attracted more than 60,000 visitors, the largest turnout in the event's three-year history.

Reflecting on the event, Chief Health, Safety, Environment and Quality Officer, Khalifa Ahmed Al Sulaiti said, "Safety Day stands as a testament to the Company's achievements, its continuous pursuit of safety excellence, and to setting new industry benchmarks in safety."

Chief Major Projects Officer, Nafez Bseiso noted, "To personalise safety is to care, and caring gives rise to courage, courage to intervene and to do the right thing when no one is looking. Safety Day reminds us to care for ourselves and each other, every day."

Chief Onshore Operations and Supply Officer, Ahmad Helal Al Mohannadi said, "Safety Day gives us an excellent opportunity to celebrate outstanding safety achievements and listen to the voices of our frontline workers whose experiences and insights are invaluable."

Chief Offshore, Terminals and Refinery Officer, Fahad Mohd Al-Khater, remarked, "This important annual event reminds us that safety is not a destination; it's a continuous journey. This journey requires each of us to demonstrate visible leadership, and to take ownership of safety."

At its core, Safety Day represents QatarEnergy LNG's continuous pursuit of safety excellence and serves as a testament to our unwavering commitment to creating a safe and secure work environment for everyone. It also provides an exceptional opportunity to bring together individuals from all levels of the organisation, as well as external partners, to recognise our collective knowledge, achievements and expertise in safety.

This cooperative engagement underscores our shared commitment to safeguarding lives and setting expectations as high as possible regarding industry safety standards.

As we reflect on another successful QatarEnergy LNG Safety Day, let us carry forward the lessons learned and the connections made, prioritising safety in all we do. Together, we will build on this foundation of excellence, ensuring a safer future for all.



A safety equipment demonstration at QatarEnergy LNG Safety Day 2024.



Khalid bin Khalifa Al Thani, CEO of QatarEnergy LNG, attends Safety Day in Ras Laffan.



Demonstration of firefighting techniques using virtual reality devices at Safety Day in Doha.

# "Safety Day is a unique celebration of our collective achievements in prioritising safety across our operations."

- Khalid bin Khalifa Al Thani, Chief Executive Officer of QatarEnergy LNG.

# **QatarEnergy LNG CEO emphasises safety at** NFE Shipping Projects on Korean Shipyard visit



QatarEnergy LNG's Chief Executive Officer Khalid bin Khalifa Al Thani and the North Field Expansion Project (NFXP) shipping project leadership team visited the Samsung Heavy Industry (pictured) and Hanwha Ocean shipyards in South Korea recently.

Khalid bin Khalifa Al Thani, Chief Executive Officer (CEO) of QatarEnergy LNG, was accompanied by the Company's North Field Expansion Project (NFXP) shipping project leadership team to the shipyards in Goeje Island, South Korea, where he engaged in high-level dialogue with the CEOs of both Hanwha Ocean (Hanwha) and Samsung Heavy Industry (SHI).

During these discussions, the CEO emphasised QatarEnergy LNG's unwavering commitment to worker safety and shared project safety experiences from QatarEnergy LNG, further underlining the value of fostering a robust safety culture at all times.

The QatarEnergy LNG CEO discussed the importance of achieving worker well-being and encouraged both shipyards to establish an 'Active Caring' culture, a global model in occupational safety standards that places the concern for and the welfare of others as the paramount focus on site.

Led by the CEO, the discussions expanded into a broad range of safety-related topics. These included the enhancement of staff competency through targeted training programmes in safety procedures; investment in improved education and communication initiatives for foreign workers to reduce incident risks, and exploration of the adoption of advanced safety

technologies and equipment to mitigate incident risks.

The CEO reaffirmed QatarEnergy LNG's long-term commitment as a major client for both shipyards. He also discussed the importance of collaboration and stressed that the shipyards, NFXP shipping project team and shipowners must work as a single team to achieve their shared goal of an incident-and injury-free construction process.

QatarEnergy LNG also visited the NFXP shipping project construction sites, where the CEO personally interacted with shipyard workers, reiterating QatarEnergy LNG's dedication to their safety and well-being.

Upon the visit's conclusion, the Hanwha and SHI shipyard CEOs expressed sincere appreciation for the QatarEnergy LNG CEO's personal dedication to safety and his willingness to engage directly with workers.

All stakeholders committed to further regular joint visits to review and monitor progress in the implementation of agreed-upon plans to improve safety.

This ongoing collaboration signifies QatarEnergy LNG's commitment to ensuring that shipyards working on Company projects are held accountable and maintain the highest standards of safety possible.



Following dialogue with the shipbuilding CEOs, QatarEnergy LNG's Chief Executive Officer Khalid bin Khalifa Al Thani personally interacted with shipyard workers (pictured at Hanwha Ocean), reiterating the Company's dedication to their safety and well-being.

# QatarEnergy LNG hosts Baker Hughes strategic meeting

Khalid bin Khalifa Al Thani, Chief Executive Officer (CEO) of QatarEnergy LNG, and Lorenzo Simonelli, CEO of Baker Hughes attended the strategic meeting alongside senior leadership from both companies.

Present in the State of Qatar for 45 years, Baker Hughes is an important strategic partner to QatarEnergy LNG, providing diverse industrial equipment, technology, and specialised services and solutions. Baker Hughes also supports the North Field Expansion Project (NFXP) by contributing to various engineering, manufacturing, and site installation projects.

The recent strategic meeting strengthened the current business partnership between the two companies and explored avenues for enhancing future collaboration by leveraging different technologies and building in-country capabilities.

The strategic meeting also marked a significant milestone in QatarEnergy

LNG's ongoing efforts to implement its Supplier Relationship Management (SRM) framework, which strengthens the Company's partnership with key suppliers and drives greater value across its supply chain by exploring opportunities for innovation, risk management, continuous improvement, and operational excellence.

QatarEnergy LNG's CEO commended the Baker Hughes team for their support and underscored the importance of further advancing the strong relationship. In turn, the CEO of Baker Hughes thanked QatarEnergy LNG for the opportunity to serve and actively contribute toward the realisation of Qatar's Vision 2030.

45 years

Baker Hughes has been present in Qatar for 45 years, providing an array of industrial equipment, technology, and specialised services and solutions.



Khalid bin Khalifa Al Thani, CEO of QatarEnergy LNG, hosted Lorenzo Simonelli, CEO of Baker Hughes, alongside senior leadership from both companies at the recent strategic meeting.

The recent strategic meeting between QatarEnergy LNG and Baker Hughes strengthened the current business partnership between the two companies and explored avenues for enhancing future collaboration.

# On-schedule completion of Barzan Gas Diversion Project a top priority



Recognising the rapidly growing global demand for Liquified Natural Gas (LNG), QatarEnergy LNG is implementing its Barzan Gas Diversion Project (BGD) as a top priority, commencing operations as soon as possible.

The Barzan Plant began its gas processing operations in 2020. The facility can produce up to 1.4 billion standard cubic feet of methane gas per day and delivers treated gas via QatarEnergy Station A4 to various domestic gas customers in Qatar.

Due to Qatar's domestic gas requirements remaining lower than Barzan's production capacity, the BGD Project is intended to maximise the utilisation of its sales gas output by delivering excess uncommitted gas volumes to the existing QatarEnergy LNG Mega Trains (QatarEnergy LNG North and QatarEnergy LNG South) for liquefaction and export.

The BGD Project also includes provisions for future diversion and liquefaction to the new Mega LNG Trains currently under construction as part of the North Field East (NFE) and North Field South (NFS) Development Projects. Overall, BGD will boost QatarEnergy LNG's production and exports to enable QatarEnergy LNG to meet increasing global demand for natural gas as a transition fuel.

### **Project Overview**

The BGD Project is designed to take maximum advantage of the existing Barzan Gas Plant layout as minimal physical modifications are required within the plant itself to deliver high pressure gas from the three existing gas compressor trains into the BGD pipeline. The modifications will also ensure that important domestic sales gas demands are still met.

A new operating mode will be implemented at the Barzan Gas Plant for the diversion to ensure that the sales gas is diverted to the new BGD pipeline via QatarEnergy Station A-4 with stringent associated operations, controls and safeguards being set in place.

During Barzan Gas Diversion mode, gas will continue to be routed on a priority basis to the domestic gas network via QatarEnergy Station A4 through the Medium Pressure (MP) header, where it is metered in an existing custody transfer metering skid (CM).

The remaining surplus higher-pressure treated sales gas will utilise the existing high-pressure (HP) piping network through the High Pressure Custody Meter. Here it will be connected to a new high-pressure 36-inch diameter

# The Barzan Gas Diversion Project is designed to take maximum advantage of the existing Barzan Gas Plant asset layout and to ensure that important domestic sales gas needs are not compromised.

buried gas pipeline, of approximately 12 kilometres in length, from Barzan Gas Plant to Mega Trains N2, N3 and N4 at QatarEnergy LNG North.

The new pipeline will be designed for intelligent pigging and includes provisions for leak detection. It also includes a 30-inch diameter high-pressure pipeline branch to deliver gas to the Mega Trains S6 and S7 at QatarEnergy LNG South Station and a valve station for future tie-in to NFS Trains.

In addition, a separate 36-inch diameter high-pressure gas pipeline is under construction from Station A-4 to service future NFE trains. Since BGD is designed for maximum flexibility to enable future gas diversion and liquefaction where spare capacity exists, this pipeline will also be tied into the NFE pipeline within Station A-4.

The BGD pipeline is being installed across Ras Laffan Industrial City (RLIC) and includes more than 100 crossings. Seven micro-tunnels are being executed including one micro-tunnel approximately 550 metres in length which will cross under critically important live assets currently in operation in RLIC.

The BGD project is being executed concurrently with several major and critically important development projects within RLIC all of which need to be completed on schedule to achieve goals set forth by QatarEnergy. This strategically important project is planned to be operational within three years of the idea conception.

BGD will prove to be one of the Company's most challenging projects to date; but given QatarEnergy LNG's stellar track record in executing similar large-scale projects, it will no doubt be successfully completed on schedule.

## BARZAN AND THE ENVIRONMENT



Designed to meet 0.1% flaring intensity, which is 66% lower than the regulatory target for existing LNG and gas facilities.



State-of-the-art emission controls to meet 9-15 ppm nitrogen oxides level. This is 40% lower than regulatory standards.



Advanced technology guaranteed to meet a 99.6% recovery efficiency – higher than the 99% standard in the State of Qatar's regulations.



Equipped with a high-tech membrane bioreactor to treat wastewater for irrigation



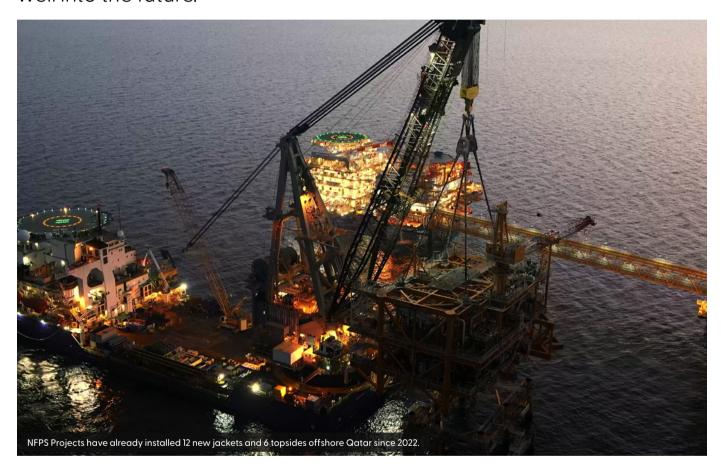
Relocation and preservation of over 1,600 live corals from nearshore pipeline corridors to offshore protected areas and deployment of 200 artificial coral reefs.



A map of Ras Laffan illustrates how the Barzan Gas Diversion Project will deliver spare gas treating capacity output from the Barzan Gas Processing Plant to existing QatarEnergy LNG Mega Trains.

# NFPS Major Projects to secure Qatar's long-term gas production

North Field Production Sustainability (NFPS) Projects will ensure that the current gas production levels from the existing North Field offshore assets are economically, reliably and safely sustained well into the future.



The strategically important QatarEnergy LNG NFPS investments will deliver the facilities required to sustain the supply of feed gas to existing LNG and domestic gas production facilities and will be completed in three investment phases.

### **NFPS Projects Scope**

The three NFPS investment phases encompass:

**Investment 1:** Drilling of new wells to further the development of the subsurface from additional

well locations, reached via newly constructed wellhead platforms WHPs, as well as from existing wellhead platforms.

**Investment 2:** Looping of the main trunklines to shore to reduce the pressure drop in the production system and back pressure on the wells.

**Investment 3:** Introduction of Compression, involving the construction and installation of new offshore compression complexes to boost the pressure of the gas offshore and pump it to shore.

The execution and delivery of the entire NFPS scope is scheduled to take place over 10 years, through to 2032. These three investment phases are currently being executed by several integrated multibillion-dollar major projects:

- NFPS Investment 1 Project 1 (I1P1)
- NFPS EPC Offshore and Pipelines (EPCOL)
- Multiple NFPS Compression Projects (COMPs)

# The NFPS Projects will significantly change Qatar's offshore facilities over the coming years.

The immense scale and complexity of the NFPS programme of projects cannot be overstated. They encompass 7 new WHPs, 3 new 'looping' trunklines to shore, 7 compression complexes, 18 intrafield pipelines and 13 associated riser platforms. There is also a significant brownfield scope both onshore and offshore required to connect the new facilities to the existing offshore infrastructure.

The NFPS Projects will significantly change Qatar's offshore facilities over the coming years. Execution of the entire scope is currently well underway. The first of the projects, NFPS IIPI – which is focused on enabling new infill drilling campaigns to unlock more reservoir potential – has already been completed.

### **NFPS Investment 1 Project 1**

The IIP1 Project successfully delivered 5 new wellhead platform WHP jackets substructures, which enabled the first drilling programmes to be executed, as well as two wellhead platform WHP topsides which, along with the interconnecting intrafield pipelines and riser platform, delivered their first-gas production in March 2024.

### **NFPS EPCOL Project**

The second of the NFPS projects, EPCOL (EPC for Offshore and Pipelines) is primarily tasked with the



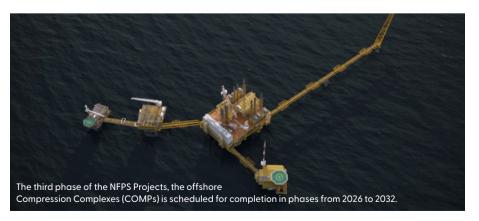


delivery of the 3 new looping trunklines and 4 new WHP topsides, to support the new wells, as well as 8 intrafield lines and associated riser platforms. The project is already 80% complete, with over 170 kilometres of trunkline laid, 7 platform substructure jackets and 3 topsides already installed. The fabrication of the remaining offshore

structures is well underway at the fabrication yard in Indonesia, with installation to be phased in in batches to mid-2025.

### **NFPS Compression Projects**

The third phase of the NFPS Projects will introduce 7 massive offshore Compression Complexes to the field and provide the additional energy to pump the gas to shore. The topsides of each new compression platform topsides weighs a staggering 35,000 tonnes and take around four years to construct and install, making them some of the largest offshore platforms installed in the region. The fabrication of the first compression complex, commenced in 2023 in China and is scheduled for delivery and start-up in 2026. The remaining 6 compression complexes are scheduled to be delivered before 2032.



# **Annual Plant Design Contest sponsored by** QatarEnergy LNG celebrates 20th anniversary

The Annual Plant Design Contest. organised by the Department of Chemical Engineering at Qatar University, recently marked its 20th anniversary with QatarEnergy LNG sponsoring and presenting prizes to the winners.



Sheikh Khalid Bin Abdulla Al Thani, QatarEnergy LNG Chief Engineering and Projects Officer provided the opening remarks at the event.

This year's Annual Plant Design Contest featured six female teams and four male teams, judged by a panel comprised of engineering experts from multiple industrial partners in Qatar. Sheikh Khalid Bin Abdulla Al Thani, QatarEnergy LNG Chief Engineering and Projects Officer, and Dr Khalid Kamal Naji, Dean of the College of Engineering at Qatar University (QU), awarded the prizes. Add a sentence here as follows:

The judging panel included Khalid Hisham Al-Mannai, Lead of Process Engineering at QatarEnergy LNG, Dr. Lina Rueda, Manager of Research and Development at Qatar Shell GTL Limited, Mathew Swatton, Technology Team Lead at Qatar Shell GTL Limited, Awad Al-Yafei, Head of Plant Productivity at QAFCO, Ahmed M Homssi, Environmental Manager at QChem, and Pradeep Pugazhendgi, Head of Process & Technology Department at Technip Energy.

First place was awarded to Maryam Al Naimi, Mariam Wisam, Haya Al Naimi, and Alreem Al Musleh – supervised by Dr Ibn Al Waleed Hussein – for their outstanding design of an ethylbenzene

production facility. Their project assessed the feasibility of producing ethylbenzene in Qatar, considering market trends and compliance with national and international standards. The team conducted an environmental impact assessment and explored emissions reduction options.

Second place went to Nchwa Ndame, Nadeen Alshaibi, Noura Boudjema, and Ushnah Khan for their innovative design of an ethylbenzene plant using benzene and ethylene as feedstock. Their project emphasised sustainability, economic viability, and minimised environmental impact through cleaner resources and energy conservation. Dr Seckin Karagoz supervised the team.

Third place went to Tarfa Al Buhindi, Ruqaya Al Sada, Fatiha Tuz Zahra, Tahmina Akther and Donghyun Kim for their blue ammonia design plant. With a production capacity of 1.1 MTPA and a purity of 99.99%, their design met market demand and supported the hydrogen revolution by integrating carbon capture and utilisation technologies. Dr Donghyun Kim supervised the team.

This year's contest celebrated the 20th anniversary of this unique collaboration between QatarEnergy LNG and Qatar University. Sheikh Khalid Bin Abdulla Al Thani presented a special recognition award to QU Vice President for Academic Affairs, Dr Ibrahim Al Kaabi, honouring the long-standing partnership between the two parties.

The event also recognised Dr Mohd Al Marri, Dr Fadwa Taher Al Jak and Dr Zeinab Abbas Jawad, representatives from the QU Department of Chemical Engineering, and QatarEnergy LNG's Ahmed Al Mohannadi and Khalid Al Kuwari.

In his opening remarks, Sheikh Khalid Bin Abdulla Al Thani said, "This event holds special significance for all of us, as it represents two decades of innovation and excellence, and underscores our commitment to fostering the next generation of engineering leaders.

"Our partnership in organising this competition is a testament to our shared commitment to advancing engineering excellence in Qatar. Together, we have witnessed remarkable growth and development over the past two decades, and today, we celebrate the fruits of our collective efforts."

Dr. Khalid Kamal Naii. Dean of the College of Engineering, expressed heartfelt appreciation and gratitude to QatarEnergy LNG and its management on behalf of Qatar University and guests, stating: "I would like to express our deepest gratitude to QatarEnergy LNG for their unwavering support over the 20 years. Their commitment to nurturing future engineers through this competition is truly commendable. Your partnership allows our students to gain invaluable experience working on industry-relevant projects, interacting with experienced professionals, and developing the technical expertise crucial for success in the energy sector."



The winning teams, QatarEnergy LNG staff and Qatar University students and faculty celebrated the 20th anniversary of the Annual Plant Design competition recently.

"This event holds special significance for all of us, as it represents two decades of innovation and excellence, and underscores our commitment to fostering the next generation of engineering leaders."

- Sheikh Khalid Bin Abdulla Al Thani, QatarEnergy LNG Chief Engineering and Projects Officer.

# QatarEnergy LNG engages future talent at Career Village and Outreach Programme

Held from 29 April to 1 May at Kidzania, the three-day Career Village attracted more than 3,000 students aged 12 to 18 from Qatari Public Schools for Boys and Girls and international schools. The event was organised by the Qatar Career Development Centre, in partnership with the Ministry of Education and Higher Education (MoEHE) and KidZania Doha.

A prominent participant, QatarEnergy LNG's booth provided a vibrant platform for students to explore the LNG value chain and to take part in interactive sessions. With a focus on highlighting career prospects and developmental pathways within the Company, QatarEnergy LNG staff shared insights into the organisation's values, culture and unique job propositions.

Led by the Learning and Development Department's Qatarization Section and supported by the Public Relations Department, QatarEnergy LNG's involvement in the event underscored its dedication to nurturing local talent and fostering a skilled workforce. The presence of 20 National graduates from departments such as IT, Onshore, Offshore, HR, Finance and Supply further enriched the experience by offering firsthand career perspectives from within the Company.

The fifth edition of this landmark career educational event, Career Village 2024 aims to encourage career awareness and development among high school students in Qatar. Aligned with the Third National Development Strategy (NDS) 2024-2030, it bridges the gap between educational outcomes and labour market demands, to prepare a future-ready workforce.



QatarEnergy LNG staff shared insights into the organisation's values, culture and unique job propositions at Career Village 2024.

Beyond career exploration, Career Village 2024 provided students with immersive experiences, empowering them to make informed academic and career decisions. With the participation of parents, career professionals and practitioners, the event served as a comprehensive support network for students, ensuring they are well-equipped for the challenges of tomorrow.

Career Village brought together representatives from ministries and leading organisations across sectors including medicine, science and technology, education, energy, finance, manufacturing, hospitality and tourism. QatarEnergy LNG is honoured to have participated and contributed to the development of the next generation of Qatar's leaders and professionals.

### **Outreach Programme**

The QatarEnergy LNG Outreach Programme took place from January to February 2024 and comprised a joint team of staff members from the Learning and Development, Human Resources, Operations Support and Emergency Response Operations departments,

The Outreach team participated in four career fairs and focused on the diverse and dynamic career prospects awaiting students within the Company. The programme was also designed to create awareness among the students of the career development opportunities available with QatarEnergy LNG, including recruitment, internship, scholarship and sponsorship programmes.

The Outreach Programme concluded with visits to 23 local high schools and the new Military and Technology schools in Qatar. QatarEnergy LNG representatives engaged with over 1500 students to highlight the benefits of embarking on a career journey with the Company.



The QatarEnergy LNG Outreach Programme was designed to create awareness among the students of the development opportunities available with QatarEnergy LNG.

# QatarEnergy LNG Major Projects demonstrate world-class environmental design and performance

QatarEnergy LNG's Major Projects, comprising its liquefied natural gas (LNG) expansion and production sustainability facilities, are critical to the State of Qatar's long-term vision to enable the global transition towards cleaner and lower-carbon energy sources. QatarEnergy LNG has made significant efforts and investments in its Major Projects portfolio to incorporate advanced environmental controls and technologies, which ensure that the Company fulfils this key objective for the country while setting the benchmark for world-class environmental performance.



### GHG Reduction



One of the largest  $CO_2$  capture and sequestration systems in the LNG industry with capacity to inject 3.2 MTA



Enhanced energy efficiency due to waste heat recovery facilities



Electrical power import from Qatar's solar projects



# Emission Reductions



NO<sub>x</sub> limit to **9ppmv and 25ppmv** for onshore and offshore turbines respectively - best in class in LNG industry



Pace-setting SO<sub>2</sub> reduction with **99.9%** sulfur recovery



Predictive Emissions Monitoring (PEMS) installation for NFPS Compression emission sources monitoring - first in State of Qatar



Jetty Boil-Off Gas (JBOG) recovery to minimise flaring during LNG ship loading operations



### Water Management



Cooling towers to minimise seawater intake and discharge for plant cooling



Near Zero Liquid Dicharge represented by 75% recycling of process wastewater for reuse as desalination water



127,000 tree plantation during project phase to support QatarEnergy million tree plantation initiative



### Biodiversity Protection



Extensive coral relocation program including relocation of **5,500** corals to alternate protected areas



First of its kind Coral Nursery facilitating outplantation of **150,000** juvenile corals across Qatari waters



Multi-party collaborative initiatives with Ministry of Environment and Climate Change (MECC), Qatar University, Aquatic Fisheries Research Center (AFRC) and QatarEnergy LNG shareholders

Best-in-class environmental controls are incorporated into QatarEnergy LNG Major Projects design.

QatarEnergy LNG's Major Projects encompass the North Field Expansion (NFXP) and North Field Production Sustainability (NFPS) projects, which demonstrate the State of Qatar's commitment to expanding the supply of cleaner energy in the form of LNG to support global decarbonisation efforts. These projects will increase the Company's LNG production and supply to global markets from 77 million tonnes per annum (MTA) to 142 MTA.

The successful implementation of these major expansion projects required careful consideration of a range of environmental challenges. These included mitigating and minimising construction and operational impacts on air quality, groundwater and seawater, as well as waste generation.

Project operations, such as subsea pipeline construction, drilling, onshore civil works and other activities, also had the potential to affect terrestrial and marine ecology and local biodiversity. In addition, Major Projects development was impacted by rapidly changing environmental regulations both globally and locally.

To mitigate and minimise these impacts, the Company's Major Projects development programme included a wide range of environmental design studies and impact assessments, driven by a stringent Environmental Permitting Programme with regulatory agencies and other stakeholders.

## Stringent Environmental Permitting

Environmental Permitting is a vital regulatory element for any new project, which typically requires a comprehensive Environmental Impact Assessment (EIA) and the mitigation of risks to the environment associated with all stages of the project. These can range from early civil works and drilling activities to commissioning, start-up and steady-state operations.

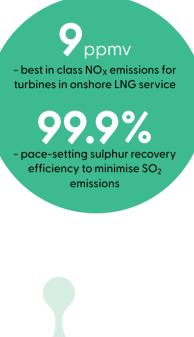
In the State of Qatar, EIAs and subsequent Environmental Permits (EPs) are issued by the Ministry of Environment and Climate Change (MECC), which is the custodian for local, ratified regional and international environmental regulations and their implementation within state boundaries. The MECC can also advise on the use and implementation of international legislation and regulatory standards if local ones are not available.

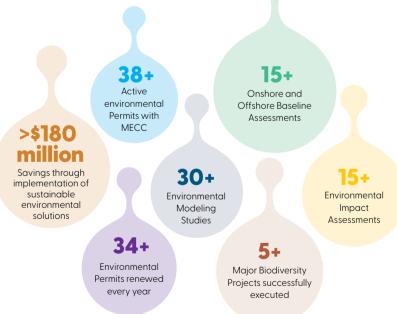
## Comprehensive Environmental Studies

A wide range of comprehensive studies and assessments were conducted for each QatarEnergy LNG Major Project development to understand their impact of and mitigate associated environmental risks:

 Detailed baseline surveys for soil, groundwater, terrestrial ecology, marine biodiversity and air quality were conducted utilising advanced monitoring methodologies and techniques.

- Comprehensive monitoring of offshore and nearshore areas with remotely operated vehicle (ROV) surveys and towed video surveys.
- Best Available Control Technology (BACT) assessments for all major emission sources such as gas turbines, heaters, oxidizers, sulphur recovery units (SRUs) and fugitive sources.
- 4. As part of the quantitative assessments, more than 30 modelling assessments covering air quality and dispersion, hydrodynamic parameters, noise, drill cuttings discharge, potential rupture and emergency release scenarios were performed for onshore and offshore areas to assess various environmental impacts.





Key Environmental Statistics – Studies and Permitting.

QatarEnergy LNG's Major Projects are an important element of the Company's Environmental Strategy which aims to achieve sustainable premier environmental performance as a key contributor to the Environmental Development Pillar of the Qatar National Vision (QNV) 2030.

### Key Environmental Achievements

NFXP features world-class carbon dioxide  $(CO_2)$  reduction initiatives, supported by one of the largest  $CO_2$  capture and sequestration systems in the LNG industry in terms of its capacity to inject 3.2 million tons per annum (MTPA). This is coupled with the partial use of solar power from the State of Qatar's new solar power plants to further mitigate greenhouse gas (GHG) emissions. Energy efficiency has been improved with waste heat recovery facilities in place on gas turbines that drive refrigeration compression units and generators.

There will also be a significant reduction in nitrogen oxide ( $NO_X$ ) emissions through the use of Dry Low  $NO_X$  (DLN) technology on gas turbine drivers for refrigeration and power generation and Ultra Low  $NO_X$  (ULN) for process heaters and oxidizers. These controls are further complemented by a  $NO_X$  emission limit of 9ppmv which is the best-in-class for turbines in LNG compressor service.

In addition, there will be a significant reduction in sulphur dioxide ( $SO_2$ ) emissions footprint through the use of advanced sulfur recovery units with tail gas treatment capable of achieving more than 99.9% sulfur recovery, which is a pace-setting level for the LNG industry.

With the installation of Predictive Emission Monitoring System (PEMS) for the Company's offshore turbines, QatarEnergy LNG is stewarding the introduction of an advanced and more sustainable environmental solution in



### 2020-2023: NFE and NFPS EPCOL Coral Management Program

- Fabrication and deployment of scientifically designed hybrid set of Artificial Reef modules
- Scientific selection of recipient site at Al Ghariya
- Relocation of 4,500 Corals
- 22,000 juvenile fish released to coral



### Coral Nursery Program at Aquatic Fisheries Research Center (AFRC)

- Fragmentation of 1,050 corals
   Multiple experiments to study effect of light.
- Multiple experiments to study effect of light, temperature fragment size
- Coral fragments out-planted accross Qatari waters



### Three (3) Offset Projects -Compensation Program

- Secured MECC approval on the scope
   Collaboration with ExxonMobil Research Qatar
- Sensitive Map for State of Qatar, Rehabilitation Guide, Coral Assessment as key objective

Major Biodiversity Achievements.



the State of Qatar that has the potential to result in a step change in emissions monitoring methodology in the country.

With advanced wastewater treatment, QatarEnergy LNG's new LNG mega trains will recycle more than 75% of their process wastewater for reuse as desalinated water within the plant, with additional treated water reused for irrigation, thereby achieving near Zero Liquid Discharge (ZLD) to sea. Furthermore, there will be no stormwater discharge to sea, it will be utlised within the plant premises.

## Major Biodiversity Conservation Projects

Biodiversity preservation is another key focus area of QatarEnergy LNG's Environmental Strategy. To support this, QatarEnergy LNG has led and facilitated major environmental initiatives to preserve and enrich Qatar's marine ecosystem.

More than 5,500 corals have been relocated from Major Project areas to alternate protected sites by QatarEnergy LNG. The Company has also pioneered the establishment of a first-of-its-kind Coral Nursery in collaboration with MECC, Qatar University (QU) and the Aquatic Fisheries Research Centre (AFRC). At this nursery, coral husbandry involving the fragmentation and incubation of corals was carried out before approximately 15,000 juvenile corals were out-planted to different sites across Qatari waters.

### An enduring commitment

A comprehensive approach to environmental protection has ensured that QatarEnergy LNG's Major Projects has achieved the highest levels of environmental performance and continues to set the pace for LNG developments worldwide.

These achievements by QatarEnergy LNG have demonstrated the Company's commitment to environmental performance excellence and its continued position as a key role player in the ongoing sustainable growth of the State of Qatar.

### **Proactive Environmental Decision-Making**

Benthic (sea floor) surveys conducted at one of the offshore NFXP wellhead platforms revealed the presence of rocky coral outcrops east of the proposed wellhead location. Subsequent ROV surveys showed that the area is of high ecological sensitivity with the presence of both soft and hard coral communities with significantly high coverage.

To preserve this ecologically sensitive area, QatarEnergy LNG relocated the wellhead platform to another location. In collaboration with the MECC, the Company also embarked on a series of proactive annual monitoring campaigns at the original coral outcrop site to ensure that this area remained protected and unaffected by project development activities. Successive annual monitoring programmes continue to show a thriving ecosystem in the area comprising a healthy coral community of 16 species, along with 30 fish and 32 different species of invertebrates and vertebrates.