

# THE PIONEER

THE MAGAZINE OF QATARGAS OPERATING COMPANY LIMITED

ISSUE 160, QUARTER 3, 2021

## LARGEST LNG SHIPBUILDING PROGRAMME IN HISTORY

ITT PACKAGE A MAJOR STEP FORWARD

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**FIRST SALE AND Q-FLEX DELIVERY TO SHANGHAI LNG**



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**ENRICHING QATAR'S MARINE BIODIVERSITY THROUGH CORAL RELOCATION**



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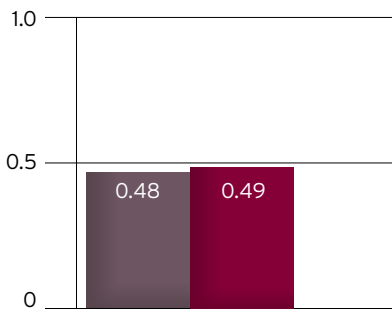
# QATARGAS CORPORATE SCORECARD

YEAR TO DATE JULY 2021

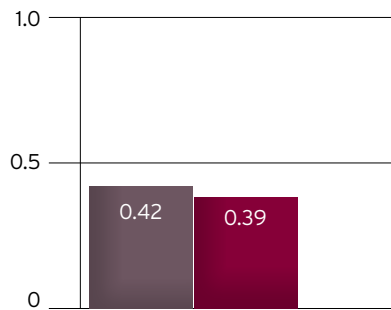


## SAFETY, HEALTH AND ENVIRONMENTAL PERFORMANCE

### TRIR



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



Target Actual

## EFFICIENT AND RELIABLE OPERATIONS

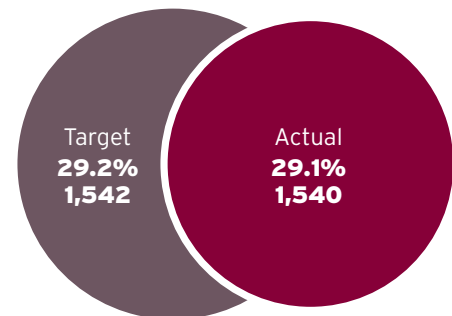
	Actual	Target
LNG Reliability	98.2%	98%
LR Reliability	94.9%	98.4%

## CUSTOMER SATISFACTION

	Actual	Target
Late deliveries - LNG	0	0
Positive Responses to Customer Change Requests (over and above firm commitments)	98%	100%

## QATARIZATION

A High Calibre and Diverse Workforce  
{Total Headcount}



# Achieving Premier Environmental Performance



Qatargas is committed to a long-term strategy to achieve sustainable premier environmental performance. We have made significant investments on numerous environmental improvement projects to reduce our carbon footprint by 12%, our flaring by 76%, and our Nitrogen Oxide (NOx) emissions intensity by 85%. Our Jetty Boil-off Gas Recovery Project reduces our flaring during LNG ship loading by 90%. We operate the region's largest carbon sequestration facility and we aim to recycle and reuse up to 70% of our wastewater through our suite of advanced wastewater treatment projects.

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THE MAGAZINE OF QATARGAS OPERATING COMPANY LIMITED

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# AN AUTHENTIC COMMITMENT TO SUSTAINABILITY

## FOLLOWING AN AGENDA FOR FUTURE GENERATIONS



Despite the ever-shifting landscape of the energy sector, one challenge remains at the forefront of the oil and gas industry, and that is sustainability.

To this end, responsible

operators embed strategies that mitigate or minimise their impact on the environment, ensure the safety and development of their people, and empower their companies to pivot efficiently in response to external events.

This is certainly the case at Qatargas, where sustainability resides in all areas of our business and in our initiatives with internal and external stakeholders,

guiding our investment in projects and programmes.

The Methane Leak and Detection Programme, for example, not only lowered the overall Greenhouse Gas footprint of Qatargas facilities, but also increased the safety of plant personnel and strengthened the core skills of Environmental and Operations employees.

Similarly, through a long-standing collaboration with the Mary Kay O'Connor Process Safety Center, Qatargas has been able to drive notable research in areas such as hazardous phenomena and risk assessment, while also supporting process safety education and the development of process safety professionals in Qatar.

Our sustainability roadmap includes too an economic agenda, and in this vein, we continue working with Qatar Petroleum on the North Field Expansion project, which will increase the State of Qatar's liquefied natural gas (LNG) production

capacity from 77 to 126 million tonnes per annum.

In this vein, we are pleased to confirm that Qatargas has been entrusted with the management of a selection programme to secure the project's chartering of LNG carriers.

Our authentic commitment to sustainability brings with it enormous responsibility. Yet Qatargas has seen the positive impact of adhering to our values, and we will continue to work to advance an environmental, social and economic agenda to benefit future generations.

**KHALID BIN KHALIFA AL THANI**  
CHIEF EXECUTIVE OFFICER,  
QATARGAS

# QATARGAS COMPLETES NFB LIVING QUARTERS EXPANSION PROJECT

Structure consists of five decks, a fully equipped helideck and six bridge links to the existing living quarters.

The North Field Bravo (NFB) Living Quarters Expansion (LQE) project, which provides an additional 90-person accommodation facility to the NFB Offshore Operations, was safely completed by Qatargas in February 2021.

The structure consists of five decks, a fully equipped helideck and six bridge links to the existing living quarters. The fabrication, construction, load-out, sail away and modification activities on the LQE project involved 2.98 million man-hours, with a peak workforce of 900 people.

The project's scope included a four-legged jacket and piles weighing approximately 2,200 tonnes to support the additional living quarters platform

weighing approximately 2,800 tonnes.

Commenting on the project, Khalid bin Khalifa Al Thani, Chief Executive Officer (CEO) of Qatargas, said, "I am pleased to announce the completion of this significant project which saw, for the first time in the State of Qatar, a major offshore platform fabricated locally at the Erhama Bin Jaber Al Jalahma shipyard (NKOM). The safe delivery of this project is a testament to the commitment of Qatargas to quality and flawless execution in developing state-of-the-art LNG facilities in the country."

The CEO added that a dedicated team of experts from Qatargas' Project Management, Operations Expansion & Startup (OES) and Offshore Operations departments, together with their partners

Rosetti Marino (EPIC Contractor), NKOM (Fabrication Contractor for EPIC Contractor), and Heerema Marines (Transportation & Installation Contractor), had worked exceptionally well to overcome various challenges, including those posed by the COVID-19 pandemic, to reach this major milestone.

The original NFB accommodation was installed in 1995 and was designed for the operational needs of Qatargas Trains 1 and 2. The expansion project was initiated to cater for the changes in the operational requirements following various expansion projects. Modifications were also done on the existing living quarters and platform to properly integrate the new additional living quarters.



The North Field Bravo (NFB) Living Quarters Expansion (LQE) project marks the first time that a major offshore platform has been locally fabricated, a testament to Qatargas' commitment to developing state-of-the-art LNG facilities in Qatar.

## LQE BY THE NUMBERS

### 5,000 tonnes

The completed LQE project's jacket, piles and deck weigh approximately 5,000 tonnes.

### 2.98 million

The number of man-hours it took to complete the LQE project.

### 90

The LQE project provides an additional 90-person accommodation facility to the NFB Offshore Operations.

### 5

The LQE project consists of five decks.

### 6

These decks link to the existing accommodation via six new bridges.

**"The safe delivery of this project is a testament to the commitment of Qatargas to quality and flawless execution in developing state-of-the-art LNG facilities in Qatar."**

- Khalid bin Khalifa Al Thani, Chief Executive Officer, Qatargas.

# MOU WITH QATAR UNIVERSITY TO POWER FURTHER COLLABORATION

Qatargas and Qatar University to partner on research, training and knowledge transfer.

Qatargas and Qatar University's College of Engineering (QU-CENG) have signed a Memorandum of Understanding (MoU) to collaborate in the field of research, consultancy and knowledge transfer, as well as to facilitate the exchange of information and consultancy.

The MoU was signed by Khalid bin Abdulla Al Thani, Chief Engineering and Projects Officer at Qatargas, and Dr. Omar

Al Ansari, Qatar University's Vice President for Academic Affairs. Also present at the signing ceremony was Khalid bin Khalifa Al Thani, Chief Executive Officer (CEO), Qatargas, and Dr. Hassan Al Derham, President of Qatar University.

Commenting on the impact of the MoU, which supports the goals of the Qatar National Vision 2030, Qatargas' CEO confirmed, "This is a reflection of the

continuing and historical collaboration between Qatargas and Qatar University, which has been firmly established for the last two decades in the areas of education, research, knowledge-sharing and community development. This joint collaboration recognises the vital role that the Ministries, private sector and government entities play in serving the country and society. The exchange of experience and information between us will strengthen the relationship between the oil and gas sector and academia and enhance fields of study focusing on science, technology and research."

Dr. Hassan Al Derham said, "The MoU highlights Qatar University's continuous efforts to provide solutions to local challenges, in line with national priorities towards a knowledge-based economy. It will also serve to facilitate knowledge and technology transfer and provide consultancy and research services, which will contribute to driving socio-economic development and sustainability in the State of Qatar."

Under the terms of the MoU, Qatar University will additionally provide Qatargas with workshops covering different areas as well as support for different projects by ensuring knowledge transfer and consultancy on the progressive development of existing projects.



Khalid bin Abdulla Al Thani, Chief Engineering and Projects Officer at Qatargas, and Dr. Omar Al Ansari, Qatar University's Vice President for Academic Affairs, exchange the documents witnessed by Khalid bin Khalifa Al Thani, Chief Executive Officer, Qatargas, and Dr. Hassan Al Derham, President of Qatar University.

**"This recognises the vital role that the Ministries, private sector and government entities play in serving the country and society. The exchange of experience and information will enhance fields of study focusing on science, technology and research."**

- Khalid bin Khalifa Al Thani, Chief Executive Officer, Qatargas.

# QP ISSUES TENDER INVITE TO SHIP OWNERS TO SECURE LONG-TERM LNG CARRIER CHARTERS

The ITT package also includes options to replace charters for several of Qatar's LNG carriers that are set to expire in the next few years.

Qatar Petroleum (QP) issued an 'Invitation to Tender' (ITT) to several large liquefied natural gas (LNG) ship owners in March. The ITT is intended to secure the chartering of LNG carriers for the future shipping requirements of QP and its subsidiaries. This includes its ongoing expansion projects in the North Field, which will raise Qatar's LNG production capacity from 77 million tonnes per annum (mtpa) to 126 mtpa by 2027.

In addition to the North Field

Expansion Project, the ITT package also covers the requirements for the LNG volumes that will be produced from the Golden Pass LNG export project in the United States. It also includes options to replace charters for a number of Qatar's LNG carriers that will expire in the next few years.

Commenting on this occasion, His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QP, and Chairman

of the Qatargas Board of Directors, said, "The release of this ITT package reflects the steadfast progress Qatar Petroleum is making on the expansion of our LNG production capacity both in Qatar and abroad."

**126  
MTPA**

Qatar will increase its LNG production capacity from the current 77 million tonnes per annum (mtpa) to 126 mtpa by 2027, requiring additional LNG carriers.



**"The release of this ITT package is a major milestone in our efforts towards securing the most qualified ship owners and operators for our future LNG carrier fleet."**

- His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of Qatar Petroleum, and Chairman of the Qatargas Board of Directors.



## Largest LNG shipbuilding programme in history

QP will review each bidders' technical and commercial capabilities, with the objective of assigning selected ship owners to the shipyards' construction slots reserved at several Chinese and Korean shipyards.

H.E. Minister Al-Kaabi said, "Qatar Petroleum has entered into agreements with major Korean and Chinese shipyards to reserve LNG ship construction capacity for building as many as 100 new LNG carriers to cater for the needs of North Field Expansion Project as well as for Qatar Petroleum's future LNG carrier fleet requirements, in what will be the largest LNG shipbuilding programme in history. The release of this ITT package is a major milestone in our efforts towards securing the most qualified ship owners and operators for our future LNG carrier fleet."

QP has entrusted Qatargas with the management of this important ship-owner selection programme. As the World's Premier LNG Company, Qatargas has a proven track record of establishing long-term partnerships. The Company has been successfully and safely operated a fleet of 45 Q-Flex and Q-Max LNG carriers, the world's largest LNG carriers, which constitute the core of Qatar's current LNG carrier fleet.



## QP awards Contract for North Field Expansion Project LNG storage and loading facilities

In early March, Qatar Petroleum (QP) announced the award of a major engineering, procurement, and construction (EPC) contract to Samsung C&T Corporation. The contract is for the expansion of the LNG storage and loading facilities located within Ras Laffan Industrial City, as part of the North Field East (NFE) Project.

The EPC contract was signed by HE Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QP, and Chairman of the Qatargas Board of Directors, and Mr. Oh Se-chul, the President and CEO of Samsung C&T, during a

special ceremony at QP Headquarters along with senior officials from Qatar Petroleum and Qatargas in attendance.

The contract was awarded on a lump sum basis and is the second major onshore EPC contract award for the NFE Onshore project. QP previously awarded an EPC contract for the construction of four LNG mega-trains and associated facilities to Chiyoda Technip Joint Venture in February 2021.

These contracts are the culmination of front-end engineering and design work that began in early 2018. When completed, the NFE Project will increase the State of Qatar's LNG production capacity from 77 to 110

million tonnes per annum (mtpa). The second phase of the planned LNG expansion, the North Field South (NFS) Project, will further increase Qatar's LNG production capacity from 110 mtpa to 126 mtpa by 2027.

Commenting on the occasion, HE Minister Al-Kaabi said, Minister of State for Energy Affairs, The President and CEO of Qatar Petroleum, said, "The award of this contract marks another concrete step towards the further development of our natural gas resources, and enhancing our position as the world's largest, most reliable LNG producer."

# QATAR PETROLEUM, QATARGAS AND OTHER INDUSTRY LEADERS TO DEVELOP NEW LNG CARRIER DESIGNS

New multi-party agreement targets development of new designs using the LNT A-BOX® LNG cargo containment system.



The agreement, signed between Qatar Petroleum, Qatargas and other leading LNG players, paves the way for the establishment of a Joint Industry Project that develops new LNG carrier designs as seen on the recently deployed 'Saga Dawn'.

Qatar Petroleum, along with several leading international LNG players including Qatargas and affiliates of ConocoPhillips, ExxonMobil, Shell and Total, have signed a multi-party agreement with LNT Marine, the American Bureau of Shipping (ABS), and Shanghai Waigaoqiao Shipbuilding (SWS) to collaborate on the development of new medium and large liquefied natural gas (LNG) carrier designs.

The agreement paves the way for the establishment of a Joint Industry Project (JIP) that targets the development of new LNG carrier designs utilising the LNT A-BOX® LNG cargo containment system, a new design that has recently been deployed on the 45,000m<sup>3</sup> ABS-classed vessel 'Saga Dawn', which entered commercial service in 2020.

## Committed to continuous improvement

Commenting on the agreement, His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QP, and Chairman of the Qatargas Board of Directors, said, "With this signing, Qatar Petroleum reaffirms its commitment to the continuous improvement of the LNG industry by supporting new concepts and encouraging innovation in areas that benefit the

industry as a whole, in a safe and economic manner."

LNG cargo containment systems are highly specialised and have experienced few improvements over the past decades. But LNT A-BOX® introduces a step change that demonstrates the potential to improve LNG transportation economics in coming years.

**LNG cargo containment systems have experienced few improvements over the past decades, but LNT A-BOX® is a step change that demonstrates the potential to improve LNG transportation economics in coming years.**

## LNT A-BOX<sup>®</sup>, a simple and efficient system

Designed and developed as a volume-efficient and flexible cargo containment system, the LNT A-BOX<sup>®</sup> offers a self-supporting prismatic IMO independent type A tank placed in an insulated cargo hold with a full secondary barrier.

The idea behind the concept was to enable more shipyards to build LNG carriers at a reasonable cost, and it is based on proven design principles

and technologies, though in a new configuration to fulfill the highest possible standards.

Said David Wu, LNT Marine's Founder and Chairman, "We are very pleased to cooperate with Qatar Petroleum and other market leaders in the LNG industry, to support new technology development for the next wave of LNG carriers. Based on our decade of hard work and today's

cooperation with Qatar Petroleum, Qatargas and the other distinguished international partners, including ABS and SWS, we have confidence in our ability to develop state-of-the-art LNG carrier designs with the LNT A-BOX<sup>®</sup> containment system to accommodate the future shipping requirements of the LNG industry."

### LNT A-BOX<sup>®</sup> OFFERS:

- **Robust and self-supporting tank - sloshing mitigated**
- **Insulation with optimal thermal properties**
- **Full visual condition monitoring of all barriers**
- **Excellent volume utilisation and flexible hull design**

Self-supporting prismatic tanks is a proven technology, successfully used for more than 50 years in the transport of LNG.

Internal structure and bulkheads inside the tanks curb movements of the liquid, while the solid tank framework structure prevents vacuum problems in the tanks, simplifying pressure control and cargo handling work.

Thermal insulation with the secondary barrier is moved to the inner hull to facilitate visual access of the secondary barrier system. The hold space is protected from sloshing loads, allowing arrangement of a flexible cold insulation system with outstanding thermal properties.

The independent tank supported by the hull structure prevents the insulated hold spaces from extensive sloshing impulses, allowing the use of insulation materials with outstanding thermal properties.

The thickness of the insulation system can easily be adjusted to achieve the required boil-off rates.

#### PRIMARY BARRIER:

Self supporting IMO independent tank type A. Material stainless steel or 9% nickel steel.

#### SECONDARY BARRIER:

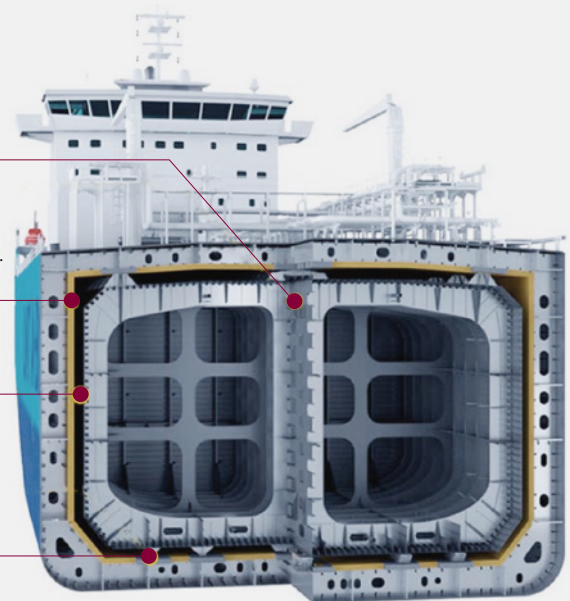
Liquid tight thermal insulation. Based on polyurethane foam panels.

#### INTERBARRIER SPACE:

Accessible spaces between tank and insulation.

#### CARGO TANK SUPPORT:

Conventional cargo tank support system.



Source: <https://lntmarine.com/lnt-a-box-system>

# QATARGAS MEDICAL DEPARTMENT MAINTAINS WORLD-LEADING ACCREDITATION

US-based Joint Commission International confers qualification to the Company for fourth consecutive time.



group of healthcare facilities worldwide with JCI accreditation and the Gold Seal of Approval. This should be a point of pride and confidence for all Qatargas employees."

The US-based JCI is the world-leading accrediting body specialising in healthcare. Established in 1997, it represents a worldwide consensus on quality patient care that reflects advanced healthcare practices and delivery trends that enable organisations to excel while remaining dedicated to improving patient outcomes.

This prestigious accomplishment maintains the Qatargas Medical Department's authority as one of the leading primary care and occupational medical clinics in the Middle East and is a reflection of the high-quality standard of delivery and service that Qatargas Medical staff consistently demonstrate.

Qatargas' Medical Department has been successfully re-accredited for the fourth consecutive time by the United States-based Joint Commission International (JCI).

The accreditation is awarded to well-managed medical service organisations that meet its standards for high quality of care and patient safety.

The accreditation was conferred to the Qatargas Medical Department for the first time in 2012 and is renewed every three years. The 2021 reaccreditation came after an exacting performance assessment, conducted virtually by a team of international healthcare experts.

The assessment involved all onshore and offshore clinics in Ras Laffan, Al Khor Community Medical Clinic and the Doha Headquarters Medical Clinic. Safety of clinical practices, value-based care, and patient-centricity are the leading pillars in the JCI assessment, in addition to 630 metrics involving every single aspect of care.

"Maintaining the JCI accreditation is a measure of the exceptional healthcare services provided by Qatargas Medical," stated Dr. Mohamad Hamad Al Naemi, Qatargas Medical Services Manager. "Qatargas Medical remains in an elite

**630**

The number of metrics involving every single aspect of patient care that is used to determine whether a medical organisation receives JCI accreditation.

**"Maintaining the JCI accreditation is a measure of the exceptional healthcare services provided by Qatargas Medical."**

- Dr. Mohamad Hamad Al Naemi, Qatargas Medical Services Manager.

# 'AL NUAMAN' DELIVERS FIRST CARGO OF LNG TO INDIA'S ENNORE TERMINAL

Qatargas carrier is the largest LNG ship to ever call at Indian Oil Corporation's Chennai facility.



Qatargas delivered its first consignment of liquid natural gas (LNG) to India's Ennore receiving terminal in late February. The Q-Flex vessel, 'Al Nuaman', was loaded with 147,000 cubic metres of LNG on February 11 at Ras Laffan Port, and called at Ennore terminal on February 20.

Apart from being the debut delivery by the Company to this location, 'Al Nuaman' also became the largest LNG carrier to ever call at Ennore. The cargo was delivered to Indian Oil LNG Private Limited, a subsidiary of Indian Oil Corporation (IOC), which operates the five million tonnes per annum (mtpa) terminal.

Ennore terminal is situated inside Kamarajar Port, 40 kilometres from Chennai City, on the east coast of India and is dedicated for LNG import, storage, regasification and send-out.

It has two aboveground storage tanks, each with a capacity of 180,000 cubic metres, and two 36-inch lines fitted along the jetty trestle, which are used for unloading LNG to its storage tanks from

ships with the capacity of up to 266,000 cubic metres.

In February 2019, Qatargas helped commission the Ennore terminal by supplying LNG volumes, delivered by the Swiss commodity trader, Gunvor. Qatargas and IOC have been sales partners and in recent years IOC has been an important customer to Qatargas with its active purchases of spot cargoes.

India is a key market for Qatargas given its geographical proximity and growth potential. Qatar established a strong partnership with India in July 1999, when Qatargas began supplying LNG to India's Petronet. Since then it has delivered thousands of cargoes as well as supplying significant volumes into the short term / spot market.

In addition to Ennore, another LNG receiving terminal in Mundra, Gujarat, was commissioned by Qatargas in early 2020. The country is also set to commission Jaigarh LNG receiving terminal in Maharashtra later this year, in addition to

**5**  
**MTPA**

India's Ennore LNG terminal has a capacity of five million tonnes per annum.

undertaking a host of other gas-related infrastructure projects, which significantly increase India's capacity to import LNG and achieve its ambitious target to make gas 15 percent of its energy mix.

**India is a key market for Qatargas given its geographical proximity and growth potential.**

# **QATARGAS COMPLETES FIRST SALE TO SHANGHAI LNG (SHENERGY) AND FIRST Q-FLEX DELIVERY TO YANGSHAN TERMINAL IN CHINA**

The Yangshan Shanghai LNG Terminal is located in Yangshan Deepwater Port, Shanghai International Shipping Centre, at the mouth of the Yangtze River.



Qatargas Q-Flex carrier, 'Al Ghariya' loaded a full cargo of 206,000 cubic metres (cbm) of liquified natural gas (LNG) at Ras Laffan 10 January 2021, the Company's first sale and delivery bound for the Yangshan Shanghai LNG Terminal in China.

Shanghai LNG Company Limited (Shanghai LNG) was established in January 2005. It is a state-owned enterprise and a joint venture between Shenergy Group Company Limited (55%) and CNOOC Gas and Power Group Company Limited (45%).

Shanghai LNG is responsible for the investment, construction and operation of Shanghai LNG terminal and trunkline projects. The company's annual LNG

supply accounts for more than 50% of Shanghai gas demand. Since November 2020, the terminal's annual receiving capacity has been increased from three million tonnes per annum (mtpa) to six mtpa.

Shenergy Group was founded in 1987 as a state-owned enterprise owned by the Shanghai municipal government and the terminal commenced operations in 2009. Following its inception, the group structured an end-to-end LNG supply chain consisting of procurement, production, pipe transmission networks and sales supply. This is known as the 'Multiple Sources of Natural Gas Security System' or 'Shanghai 6 plus 1'.

**6  
MTPA**

**The current annual LNG receiving capacity of Shanghai receiving terminal.**

Shanghai terminals can accept vessels up to Q-Flex size and their total combined LNG storage capacity is 895,000 cbm, with five storage tanks of 165,000 cbm and two each of 200,000 cbm. Qatargas has conducted due diligence and compatibility studies for 13 Chinese terminals (including one floating storage regasification unit or FSRU).

**Qatargas has conducted due diligence and compatibility studies for 13 Chinese terminals (including one floating storage regasification unit or FSRU).**

# EMERGENCY RESPONSE DIVISION RE-AWARDED PRESTIGIOUS INTERNATIONAL FIRE READINESS ACCREDITATION

Qatargas' Emergency Response (ER) Division has qualified for reaccréditation from the United States (US) Commission on Fire Accreditation International (CFAI). Ratified by the US Center for Public Safety Excellence (CPSE), the Company's designation as an 'Accredited Agency' followed a public hearing in the US in May 2021.

The CPSE's programme, the only one of its kind in the world, is a comprehensive self-assessment and evaluation model that enables fire and emergency service organisations to examine past, current, and future service levels and performance and compare them to industry best practices. The accreditation process is a proactive mechanism whereby the team is required to develop a five-year strategic plan, as well as a comprehensive risk-

monitoring programme.

Qatargas was the first industrial fire brigade in the world to receive this status, as well as the first entity of any kind in the Middle East in 2015. The CFAI is governed by a council from across the fire service industry, including fire departments, the National Fire Protection Association (NFPA), city and county management, code councils, the US Department of Defence, and the International Association of Firefighters.

Representatives of the Qatargas ER Division, led by Hassan Jassim Abu Khamis, Emergency Response and Security Manager, received the 2021 reaccréditation certificate in a virtual session with CFAI.

Commenting on this accomplishment, Qatargas' Khalifa Ahmed Al Sulaiti,

**250**  
Qatargas remains among the elite of only 250 agencies around the world to receive the prestigious CFAI Fire Accredited Agency status.

Chief Health, Safety, Environment and Quality Officer, said, "We are delighted to receive this prestigious accreditation as this continues to keep Qatargas at the forefront of some 250 accredited agencies around the world. This designation affirms that our firefighters are providing the highest level of service and professionalism, with the objective of protecting lives and the assets of Qatargas."

Hassan Jassim Abu Khamis added, "I am extremely proud of our hard-working and dedicated firefighters. It was the culmination of an 18-month-long documentation and assessment exercise which evaluated the current and future service levels of the Division. Even though it was reaccréditation, the process was demanding and challenging for us as an industrial organisation. Having maintained the accredited status is a big win for our firefighters and our Company as a whole."



Representatives of the Qatargas ER Division, led by Hassan Jassim Abu Khamis, Emergency Response and Security Manager, received the 2021 reaccréditation certificate in a virtual session with CFAI in May.

In 2015 Qatargas was the first industrial fire brigade in the world to receive this international fire accreditation, as well as the first entity of any kind in the Middle East.

# A SYNERGISTIC RELATIONSHIP: QATARGAS AND THE MARY KAY O'CONNOR PROCESS SAFETY CENTER

A closer look at a long-standing collaboration that cultivates innovation and a knowledge-based future.



The 2021 QPSS, "Embracing The Red" and hosted virtually for the first time, attracted 400 attendees and 28 speakers, including Qatargas' Chief Health, Safety, Environment & Quality Officer, Khalifa Ahmed Al Sulaiti.

In April 2019, Qatargas, Texas A&M University and ConocoPhillips signed a commemorative Memorandum of Understanding (MoU) at the 10th Qatar Process Safety Symposium (QPSS) to officiate their collaboration in the field of process safety.

When reflecting on the significance of the signing, Khalid bin Khalifa Al Thani, Chief Executive Officer of Qatargas, said, "We are honoured to become part of the annual delivery of QPSS, which has grown into an important event for Qatar's human capital development. Our partners are globally distinguished institutions in their respective fields of energy and academia. While there is no one-size-fits-all solution, we can jointly implement superior control processes to mitigate the adverse effects of human error in the future."

The key objectives of the symposium are to promote sustainability, ensure the protection and safety of people, and mitigate or minimise impacts on the environment.

**Qatargas has been very active at proposing new research topics related to LNG safety, hazardous phenomena, risk assessment and control.**

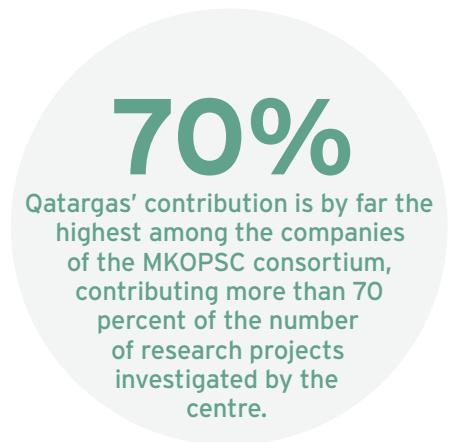
## Partnering for the Qatar Process Safety Symposium (QPSS)

Since 2012, the annual QPSS has been organised by the Texas A&M Engineering Experiment Station (TEES) Mary Kay O'Connor Process Safety Center (MKOPSC) and ConocoPhillips as a key process safety event in Qatar serving industry, regulatory institutions and academia.

At the time of the 2019 MoU, Qatargas was invited to partner with the organisers on the theme, "Human error happens: How do we overcome the inevitable?". That year's event hosted 24 speakers and was attended by 260 people.

The three organisers again partnered for the 2021 QPSS, this time a two-day virtual symposium that hosted 28 speakers and attracted 400 attendees under the theme, "Embracing the Red".

Representing Qatargas and speaking at this year's event was Chief Health, Safety,



Environment and Quality Officer, Khalifa Ahmed Al Sulaiti, who delivered the introductory Welcome Note.

Papers were presented by Qatargas Process Safety team members, Omar Shahbal, Muhammad Humayun Mazhar, Sadiq Azeez, Wahyu Hidayat and Dean Elford from HSE&Q Management Systems.

Notably, the QPSS Process Safety Excellence Award recognised the exceptional contribution of Qatargas' Jack Cranefield (2019) and Tawfeeq Hamad (2017) towards process safety in Qatar.



A continuous supporter of the centre, Qatargas has demonstrated that strong collaboration between industry and academia is critical to a safer future in industry.

## Texas A&M Process Safety Research Projects

In the years since its launch in 2013, the Texas A&M University at Qatar (TAMUQ) Mary Kay O'Connor Process Safety Center (MKOPSC) has received strong support from an industry consortium Steering Committee that includes Qatargas. The Company has been a longstanding consortium member since signing a Memorandum of Understanding (MoU) in December, 2013, renewed in 2020 for a further five years.

Additionally, Qatargas has been highly active at proposing new MKOPSC research topics related to liquefied natural gas (LNG) safety, hazardous phenomena, risk assessment and control. Qatargas team members commonly choose and fund relevant process safety research topics to be investigated by MKOPSC.

One of the most notable research topics driven by Qatargas is the experimental investigation of the explosive properties of sulphur dust and the safety of granulated sulphur production units. Qatargas directly contributed to the success of this ongoing project by communicating on safety challenges, hosting members for a site visit, providing sulphur dust samples collected onsite for analysis and expert advice (Figure 1).

Another Qatargas research idea is the study of the infiltration of toxic gases in non-process areas and buildings. This particular topic generated much interest within the consortium, leading to the establishment of a five-year research project that resulted in a methodology to simulate the movement of a crowd during a building evacuation following the ingress of toxic hydrogen sulphide gas (Figure 3).

The technical guidance of Qatargas was key to the success of the project, which will contribute to the better design of emergency response planning for occupied buildings.

To date, five of the Company's ideas for research topics have been developed into research proposals by MKOPSC, chosen by vote by the consortium and researched by MKOPSC students as part of their Master's theses and PhD dissertations. At more than 70 percent of the number of research projects investigated by the centre, Qatargas' contribution is by far the highest among the companies of the consortium.

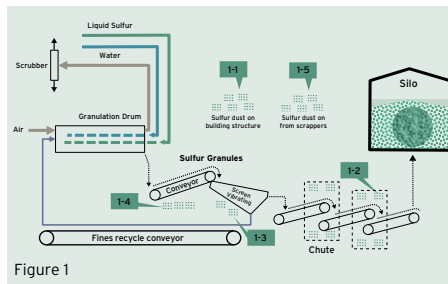


Figure 1

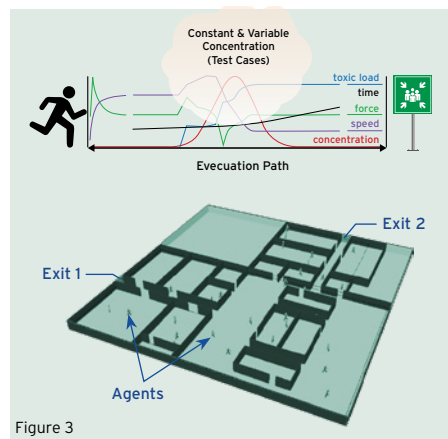
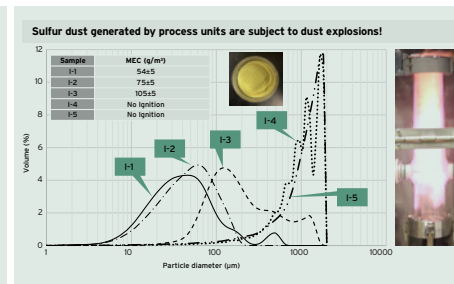


Figure 3

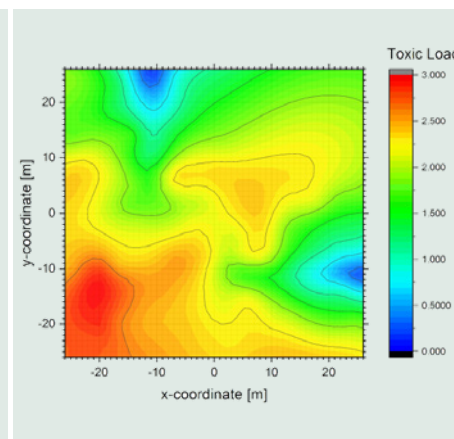


Figure 2



Additionally, Qatargas supports the MKOPSC's research proposals, developed for funding from the Qatar National Research Fund (QNRF Qatar Foundation).

One such project (NPRP 6-425-2-172) has contributed to improving the prediction of outcomes of LNG spills on concrete, through a series of medium-scale real LNG spill tests performed by the MKOPSC at the Ras Laffan Emergency and Safety College (Figure 2).

In 2020, Qatargas also participated in a new MKOPSC project to assess the impact of the COVID-19 outbreak on the industry's capability to manage process safety risks during pandemics.

The MKOPSC and Qatargas have demonstrated that strong collaboration between academia and industry is critical to a safer future in industry, with the fruits of this long-standing partnership now visible in Qatar.

## What is the Mary Kay O'Connor Process Safety Center?

The Texas A&M Engineering Experiment Station (TEES) Mary Kay O'Connor Process Safety Center (MKOPSC) was established in the United States in 1995 in memory of Mary Kay O'Connor, an Operations Superintendent who died in an explosion on 23<sup>rd</sup> October 1989 at a petrochemical complex in Texas. The Center's mission is to promote safety around the world with the goal of preventing future accidents through education, research and service to industry and the public.

# QATARGAS LONG-TERM ENVIRONMENTAL STRATEGY AIMS TO ACHIEVE SUSTAINABLE PREMIER ENVIRONMENTAL PERFORMANCE

Strategy encompasses the full Qatargas value chain and is aligned with Qatar Petroleum’s sustainability strategy and climate change initiatives.

Qatargas created its Long-Term Environmental Strategy as a roadmap for the Company’s environmental vision for the future. The overall aim of the strategy is to achieve sustainable premier environmental performance while addressing existing and emerging environmental issues, risks and opportunities.

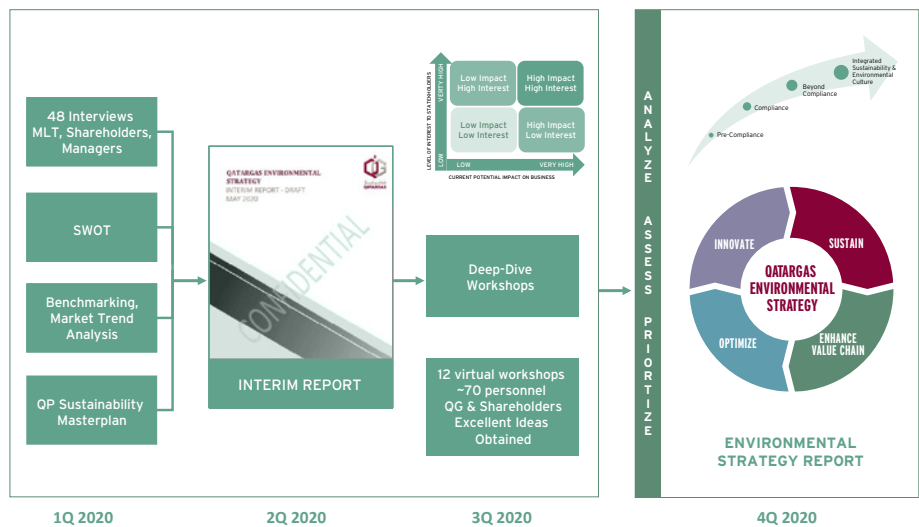
Initially focused on a ten-year timeframe, the Strategy encompasses the full Qatargas value chain and is aligned with Qatar Petroleum sustainability and climate change initiatives. It has been designed to anticipate and take into consideration significant changes in Qatargas operations in the next decade due to upcoming development and expansion projects.

The Qatargas Long-Term Environmental Strategy development process took more than a year to complete and involved alignment and inputs from a wide range of internal and external stakeholders.

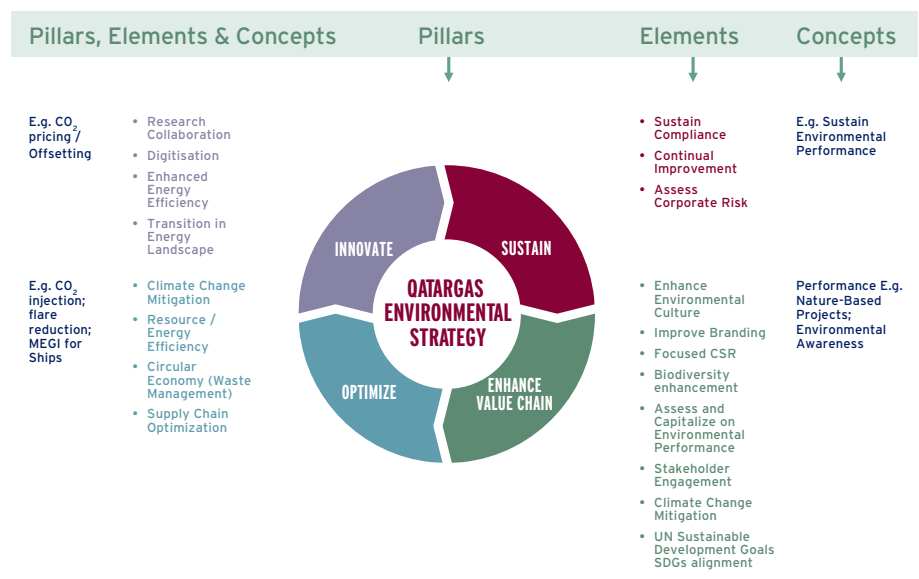
The information and concepts gathered throughout the strategy development process were analysed, assessed, prioritised, and subsequently organised within the Four Pillars of the Qatargas Environmental Strategy:

- Sustain
- Enhance Value Chain
- Optimise
- Innovate

Each element of the strategy within these four pillars has at least one or more concepts associated with it, culminating in a total of 19 strategic elements covering 32 strategic concepts.



The Qatargas Long-Term Environmental Strategy development process.



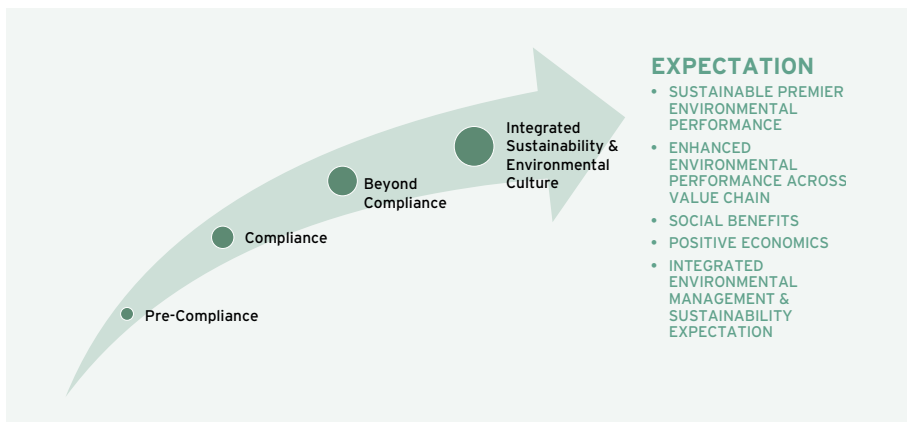
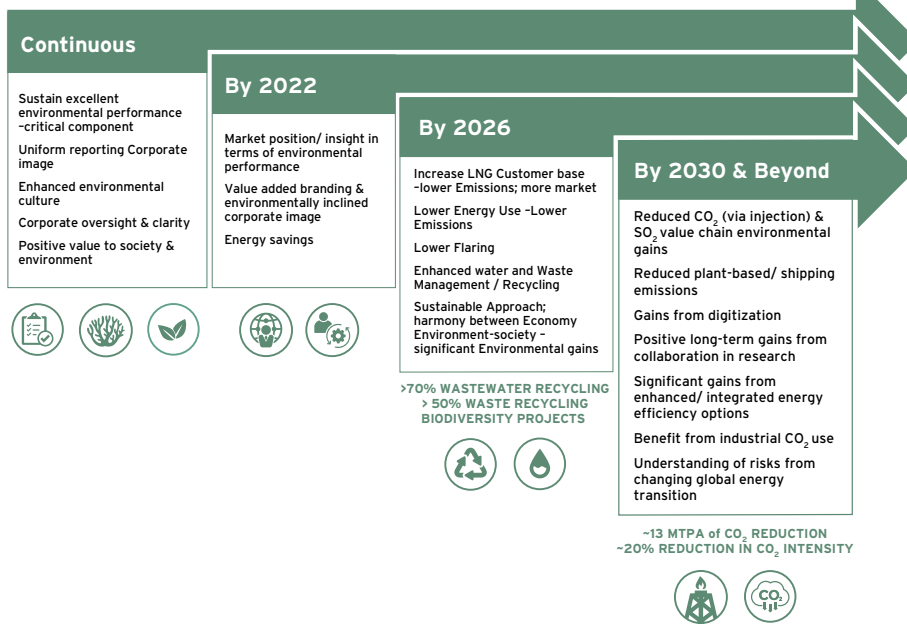
Pillars, Elements and Concepts



Target: Based on 2013 baseline. GHG Target is aligned with OP

Key material issues of concern to Qatargas.

### EXPECTED ENVIRONMENTAL GAINS: CURRENT TO 2030



Details related to these elements and concepts are provided in the Environmental Strategy Report which addresses the following key topics:

- Elements of Environmental Strategy
- Potential Concepts
- Timeline
- Indicative CAPEX Band
- Environmental Gain
- Responsible Qatargas Department(s)
- Challenges

While the Sustain Pillar primarily helps maintain compliance, it should be noted that all elements within the other three Pillars are aimed at supporting the Company to achieve sustainable premier environmental performance. The strategy also proposes targets based on key material issues of concern to Qatargas.

The Company will be developing a comprehensive Environmental Strategy Implementation Plan this year in collaboration with all relevant stakeholders and shareholders. It is expected that there will be significant gains during and following the implementation of the strategy elements and concepts.

The Environmental Strategy is designed to drive continual improvement, and as such it will be an ongoing process to allow updates as the Company moves towards its goals. The eventual expectation and ideal outcome is to reach a stage of an integrated culture of environmental sustainability within the entire Qatargas value chain.

**The Strategy anticipates and takes into consideration significant changes in Qatargas operations in the next decade due to upcoming development and expansion projects.**

# QATARGAS ACHIEVES SUSTAINABLE REDUCTION IN FUGITIVE METHANE EMISSIONS

Qatargas' first full year of implementing its dedicated methane Leak Detection and Repair (LDAR) programme achieves significant milestones.



**70,000**

Qatargas has monitored more than 70,000 components across 19 facilities in its onsite and offsite Assets as part of its Methane LDAR programme.

Methane as a Greenhouse Gas (GHG) has a global warming potential (GWP) 28 times more than that of carbon dioxide (CO<sub>2</sub>). For this reason, the oil and gas industry has renewed its focus on reducing methane emissions.

As the World's Premier LNG Company, Qatargas is actively implementing a range of projects and initiatives to minimise our GHG footprint. One such initiative is a dedicated Leak Detection and Repair (LDAR) programme to mitigate fugitive methane emissions from the Company's LNG and sales gas facilities.

The programme is based on the methane LDAR guidelines issued by Qatar Petroleum (QP), of which Qatargas was a key contributor. The programme leverages the significant experience gained from a similar LDAR programme for Volatile Organic Compounds (VOCs) implemented since 2008, in line with United States Environmental Protection Agency (US EPA) regulations.

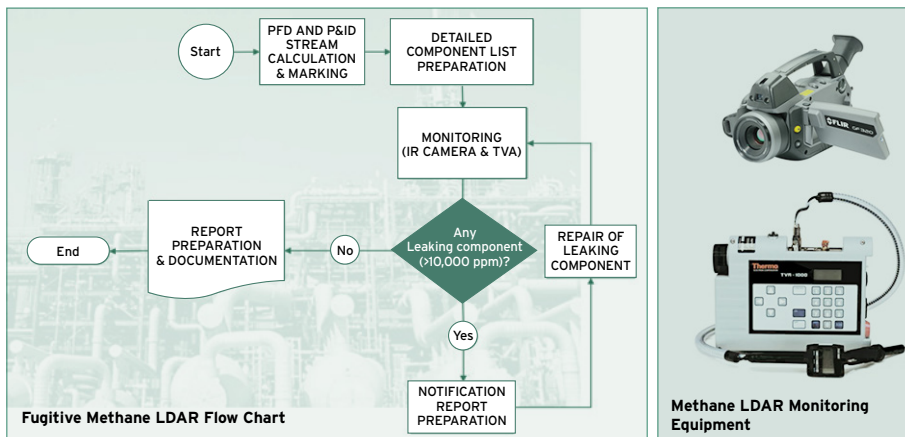
**Methane is 28 times more potent than CO<sub>2</sub>**

With methane 28 times more potent as a greenhouse gas (GHG) than carbon dioxide, any methane reduction has a correspondingly larger impact on overall GHG emissions.

The methane LDAR programme identifies and quantifies fugitive methane emission leaks from piping components and equipment which can then be mitigated through maintenance and repair, thereby reducing losses while enhancing process safety.

Qatargas is now progressing with plans to further improve its monitoring approach by incorporating both methane and VOC LDAR programmes as an integral component of Operator Care initiatives, facilitating rapid leak detection and mitigation during operator rounds.

## Methane LDAR programme implementation



**190,000**  
 Qatargas' overall fugitive emissions monitoring programmes (methane and VOC) currently monitor and manage over 190,000 components in total hydrocarbon service across the Company's LNG, sales gas, refining and terminal operations.

For example, some of the synergies utilised from the Company's existing VOC LDAR programme include a common 'Smart LDAR Approach' with Infrared Optical Gas Imaging cameras for leak detection and Toxic Vapor Analyzers for leak quantification, an area in which the Company's field personnel have developed a high level of operating expertise.

It now takes a week or less to complete methane leak monitoring of a single Qatargas LNG train, compared to the conventional LDAR approach, which usually takes two to three weeks per LNG train.

Qatargas implements an all-inclusive approach by covering not only the defined scope of the QP guidelines, but also those streams containing less than 10% by weight methane. This results in no additional component tagging, as all hydrocarbon streams are already monitored.

### A clear, sustainable approach for the future

In developing a clear and executable methane LDAR approach, Qatargas has been able to build on its rich experience in this area. The Company is now progressing with plans to further improve its monitoring approach by incorporating both methane and VOC LDAR programmes

as an integral part of in-house Operator Care initiatives.

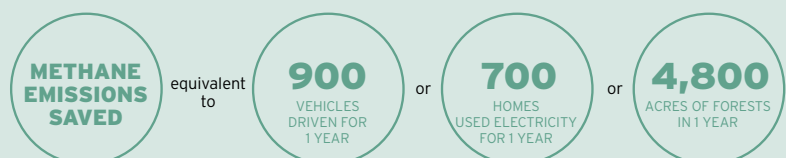
These enhancements will seek to identify and repair leaking components at the earliest stages and streamline methane emissions quantification as opposed to an annual monitoring cycle which could potentially miss

intermittent leaks.

The in-house LDAR approach also aims to enhance and strengthen the core skills of Qatargas field personnel resulting in greater awareness and a sense of ownership and stewardship of this important programme within the Company.

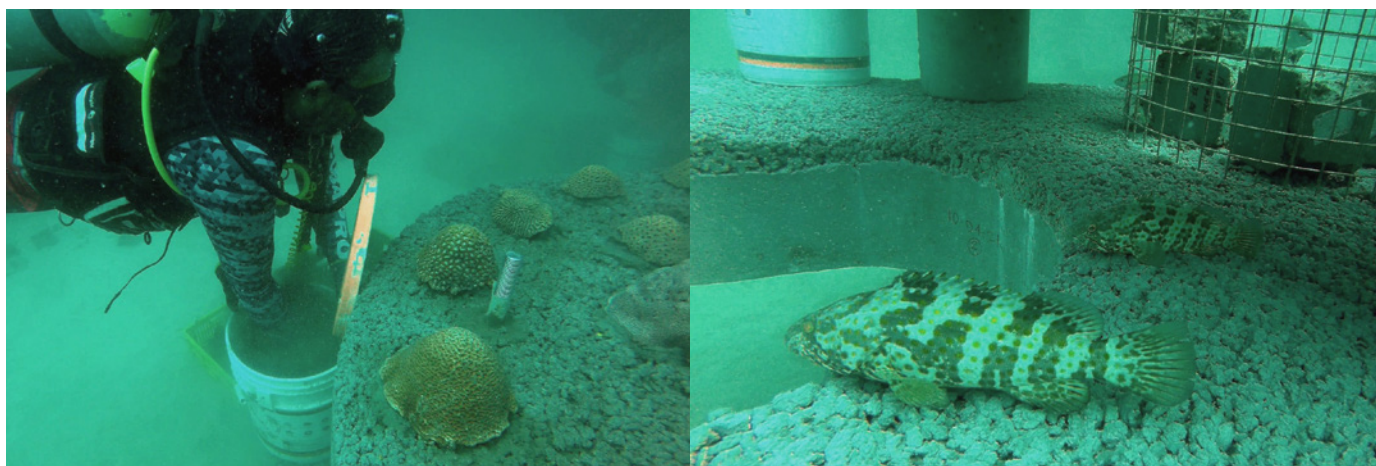
## Methane LDAR Programme Results

- More than 70,000 components monitored across 19 facilities in Qatargas' Onsite and Offsite Assets in RLC.
- Fugitive CH<sub>4</sub> monitoring using 'Smart LDAR Approach' completed within 8 weeks. Conventional LDAR approach would take more than 40 weeks to cover the same number of components.
- All identified leaking components were successfully repaired, reducing Qatargas' overall fugitive methane footprint by ~60%.
- Methane emissions saved through LDAR program are equivalent to the GHG emissions of 900 passenger vehicles driven for one year, or the electricity use for 700 homes for one year, or GHG sequestered by 4,800 acres of forests in one year.



# PROTECTING QATAR'S MARINE BIODIVERSITY

Qatargas' recently completed landmark environmental project is a testament to the Company's commitment to preserve and sustain the country's marine ecosystems.



Qatargas has a proud legacy of major environmental initiatives undertaken to preserve Qatar's marine biodiversity in cooperation with the Ministry of Municipality and Environment (MME) and aligned with the Environmental Developmental Pillar of Qatar National Vision 2030 and the National Biodiversity Strategy.

These environmental projects are focused on the essential role that corals play in protecting the country's vulnerable coastline while providing a sustainable habitat for vibrant populations of varied flora and fauna.

## Enriching Qatar's marine ecosystem

Since 2007, the Company has relocated more than 7,500 live corals from nearshore pipelines to offshore protected areas, including the deployment of over 200 artificial reef modules off Banana Island in 2019 to enrich Qatar's marine ecosystem. Most recently, Qatargas continued its collaboration with the MME to undertake a comprehensive Coral Management Programme as part of its offshore North Field Production Sustainability (NFPS) Engineering

Procurement and Construction Offshore & Looping (EPCOL) Project.

This programme comprised the successful deployment of over 150 artificial reef modules near Al-Ghariya in Northern Qatar. These reef modules were locally fabricated, using an environmentally-friendly low pH concrete mix and installed at the nearshore site following completion of a comprehensive Marine Environmental Assessment (MEA).

This was followed by the relocation of more than 1,250 live corals from the NFPS nearshore to the deployed artificial reef modules to enrich the local marine environment and provide a sustainable habitat for different kinds and sizes of fish and other marine organisms.

The overall programme also includes multi-year, post-relocation monitoring with handover of all relocation zones to the MME for incorporation into the State of Qatar's protected natural reserve.

## The potential for a National Coral Bank

In the first of its kind initiative in the region, Qatargas has also partnered with Qatar University (QU) and the Aquatic Fisheries Research Center (AFRC) to

establish a state of the art Coral Nursery.

As first batch, more than 400 corals from the NFPS EPCOL project site were extracted and brought to the Coral Nursery to undergo a fragmentation process, which results in the production of about seven baby corals for every live coral fragmented. These baby corals were then incubated and nurtured at the Coral Nursery before being out-planted near Shrao Island in the south of Qatar.

The Coral Nursery is a unique programme that has the potential to become a National Coral Bank thereby contributing to future marine biodiversity and coral protection projects, both in Qatar and the region.

Qatargas is proud to have implemented these important environmental projects despite substantial logistical and technical challenges owing to COVID-19 restrictions. These projects will serve to enrich the marine ecosystem while ensuring a sustainable future for Qatar's marine biodiversity.

Since 2007, Qatargas has relocated more than 7,500 live corals from nearshore pipelines to protected marine areas, including the deployment of over 200 artificial reef modules off Banana Island in 2019.

## Nearshore Environment Management Programme Timeline

### Fasht Al Hurabi

2006-2007

- Relocation of 4,500 corals to 22 sites

2007-2013

- Post-relocation monitoring

### Fasht RasGas

2012

- Deployment of 550 boulders and 210 artificial reefs
- Relocation of 2,800 corals

2012-2016

- Post-relocation monitoring

### Banana Island

2019

- Deployment of 200 artificial reef modules

### NFPS and NFE Coral Management Plan

2020-2021

- Deployment of 300 artificial reef modules
- Relocation of 4,600 corals
- Coral Nursery programme for 1,000 corals at AFRC

### Mangrove Management Plan

2020-2022

- Small seedling relocation coupled with nursery raised seedling out-plantation
- Approximately 1,000 seedlings to be relocated at suitable mangrove site



# WHAT IS YOUR CARBON FOOTPRINT?

Qatargas' Go Green Campaign 2021, 'My Carbon Footprint', shows employees how they can make a difference as individuals in the fight against climate change.

The Qatargas Environmental Affairs and Regulatory Team recently launched the virtual Go Green Campaign 2021: 'My Carbon Footprint', an environmental awareness initiative in conjunction with the Qatargas Information Technology, Public Relations and Learning & Development Teams.

The initiative offers an online course that customises training and awareness sessions for all Qatargas staff, having offered more than 12 sessions (March through August

2021), all virtually conducted through WebEx. Employees are able to register via the Learning Management System on the Qatargas Intranet Portal.

'My Carbon Footprint' is an immersive learning experience. The campaign and awareness sessions serve as an introduction to the Qatargas Personal Carbon Footprint (PCF) Calculator, which can be used by employees to calculate their individual carbon footprint. The sessions also suggest various ways

in which employees can engage by submitting their success stories through the new Go Green Portal. Participants are also briefed on various environmental initiatives implemented by Qatargas to reduce its emission levels.

As of June 2021, more than 450 employees have participated in the one-hour virtual training sessions and more than 600 employees have calculated their personal carbon footprint online using the tools on the Go Green Portal.

## Raising awareness, effecting change

The aim of the campaign and the virtual training programme is to engage Qatargas employees and raise awareness about climate change and its global impacts. It also highlights efforts to

mitigate climate change, globally, within Qatar and by the Company.

'My Carbon Footprint' encompasses Qatargas' key environmental focus areas and centres on how we can each make

a difference in the fight against climate change by the actions we take in our daily lives.

In the next phase, 'My Carbon Footprint' will engage with external stakeholders and conduct carbon management sessions, as well as host PCF awareness workshops with schools, colleges and shareholders.

Through this and other environmental initiatives, Qatargas continues to play a proactive and significant role in supporting an environmentally aware population that values the preservation of the natural heritage of Qatar and the wider region.

**2021 GO GREEN CAMPAIGN - MY CARBON FOOTPRINT**

**CLIMATE CHANGE, OR GLOBAL WARMING, IS THE GREATEST ENVIRONMENTAL THREAT WE'VE EVER FACED.**  
How we respond to this crisis will greatly impact both current and future generations and all other species.

The global carbon dioxide equivalent of greenhouse gases (GHG) in the atmosphere has exceeded 400 parts per million.

A new UN Environmental Programme (UNEP) report warns that unless global greenhouse gas emissions fall by 7.6% each year between 2020 and 2030, the world will miss the opportunity to get on track towards the 1.5°C temperature goal and of Paris Agreement.

The planet has serious environmental issues - from climate change to the pollution in our oceans and devastation of our forests.

**IT'S UP TO ALL OF US TO FIX IT!**  
Take your first step with the carbon footprint calculator and see how you can help...

**FIND OUT YOUR CARBON FOOTPRINT!**  
Based on a set of questions, the calculator calculates your annual carbon footprint and you will be able to see how you fare with the global average. Read up on TIPS along the way that can help you further reduce your personal carbon footprint.

**CLICK BELOW!**

**450**

More than 450 employees have participated in or registered for the My Carbon Footprint virtual sessions.

**600**

More than 600 employees have calculated their personal carbon footprint using the tools on the Go Green portal.

The campaign and awareness sessions are part of Qatargas' commitment towards cultivating sustainable environmental practices and fostering community wellbeing in line with the Qatar National Vision 2030 and the Company's Long-Term Environmental Strategy, which was launched earlier this year.

'My Carbon Footprint' is an immersive learning experience that encourages employees to calculate their carbon footprint through a dedicated Personal Carbon Footprint (PCF) Calculator, and to participate in a series of webinars with quizzes and activities on climate change.



# IBRAHIM AL HARAMI AND SALEH AL MOHANNADI MAKE IT BIG AGAIN IN 'SAMLA' DESERT RACE

Qatargas employees finish third and fourth in gruelling ultrasport event.

Qatargas employees Ibrahim Al Harami and Saleh Sagir Al Mohannadi finished third and fourth respectively in the 2021 'Samla Race' ultrasport event, held in March this year. The fifth edition of the race, 'Samla' is a traditional Qatari word that means persistence, patience, and overcoming challenges.

Qatargas CEO, Khalid bin Khalifa Al Thani, recognised both the winners in a ceremony held recently at Qatargas Headquarters. The ceremony was attended by Ghanim Al Kuwari, Chief Human Capital Officer, Jassim Abdulla Al-Mohannadi, Chief Shared Services Officer, Khalil Abunada, Safety & Occupational Health Manager, and Ali Al Sulaiti, Public Relations Manager.

Fittingly, the 200-kilometre Samla Race is an extreme desert trek spanning 60 hours of long-distance running, trekking, swimming, kayaking, shooting and cycling across eight different stages. Participants in the 2021 race endured some of the most challenging, remote and diverse desert locations in Qatar, from Bu Samra to Lehweila.

In a colourful prizegiving ceremony at the Katara Cultural Village earlier, Ibrahim and Saleh received their prizes from Dr Khalid Ibrahim Al Sulaiti, General Manager of Katara Cultural Village, and Azzam Abdulaziz Al Mannai, Head of the Samla

2021 Organizing Committee.

Third-placed Ibrahim, who is officially sponsored by Qatargas and works as Senior Environmental Analyst at the Environmental Operations Division at the Company, had won second place in the race held in 2019 - bettering his position in 2018 when he finished sixth. This year, he also collaborated with the Ministry of Youth and Sports to create social media content that encouraged participation in sports and its importance to health. He was also profiled by Al-Rayyan TV, where he discussed his long-distance running experience.

# 5

The fifth edition of the Samla race was held in 2021.



Qatargas' Ibrahim Al Harami competes in the 200-kilometre Samla Race, an extreme desert trek spanning 60 hours of long-distance running, trekking, swimming, kayaking, shooting and cycling.



Qatargas' Saleh Sagir Al Mohannadi finished fourth in the 2021 'Samla Race' ultrasport event, held in March this year.

Saleh, who works as a Storekeeper in the Supply Department warehouse, bettered his position by two slots, from sixth place in 2019 to fourth place this year. (The race was cancelled in 2020 due to COVID-19).

Televised live on Al Kass Sports Channel, the popular Samla Race is held exclusively for Qatari citizens above 18 years old with the goal of inspiring better health through physical activity.

'Samla' is a traditional Qatari word that means persistence, patience and overcoming challenges.

# QATARGAS TO BOOST INCIDENT COMMAND SKILLS WITH CNA-Q



Members from Qatargas crisis management team during their ICS training at CNA-Q campus recently.

Qatargas recently signed a five-year agreement with the College of the North Atlantic - Qatar (CNA-Q) to co-facilitate accredited Incident Command System (ICS) training courses for Qatargas staff, part of a wider programme to bolster competency in crisis management in the Company.

CNA-Q will support subject matter experts from the Qatargas Crisis Management Team by providing technical support, specialised equipment and facilities to train more than 500 Qatargas technical staff and managers.

The Continuing and Professional Education Department at CNA-Q has been working with QG's Crisis Management Team to deliver ICS training since April 2019; training which is aimed at meeting the growing demands of crisis response management in the country.

Commenting on the agreement, Khalifa Ahmed Al Sulaiti, Qatargas' Chief Health, Safety, Environment & Quality (HSEQ) Officer, said, "We identified major priority areas and our Crisis Management Team developed a training plan for all of our Incident Management Team. We are confident that this training combined with the facilities provided by the college, we can successfully bolster the Company's incident command competency across the board."

Dr Salem Al-Naemi, CNA-Q President confirmed, "We are fully committed to serving the growing needs of Qatar's largest industry, addressing an area that is becoming increasingly important

- crisis management. We are proud to be collaborating with Qatargas again, specifically working with their Crisis Management team to deliver this crucial training."

As Qatargas continues to develop and expand its operations, mitigation of the associated risks is paramount. After completing an analysis of the current crisis management system, senior Company managers identified formal and comprehensive training in incident command management as a priority for Asset Managers and their respective incident management teams (IMTs).

Qatargas ICS courses delivered under the agreement will include ICS 200 training for initial responses, ICS 300 Intermediate training for expanding or escalating incidents, and ICS 400 Advanced training for command and general staff functions during complex incidents.

**"We are confident that with the expertise of our Crisis Management Team combined with the on-campus facilities of the College, we can successfully bolster the Company's incident command competency across the board."**

- Khalifa Ahmed Al Sulaiti, Qatargas' Chief Health, Safety, Environment & Quality (HSE&Q) Officer.

# 500

More than 500 Qatargas technical staff and managers will be trained by the accredited Incident Command System instructors of QG's Crisis Management Team using CNA-Q's facilities over a 5-year period.