

# THE PIONEER

THE MAGAZINE OF QATARGAS OPERATING COMPANY LIMITED

ISSUE 143 - JAN-MARCH 2014

## ACHIEVING EXCELLENCE

RECENT LAFFAN REFINERY AND TRAIN 7 PLANNED SHUTDOWNS COMPLETED AHEAD OF SCHEDULE

### SHIP TO SHIP

QATARGAS SUCCEEDS IN GROUNDBREAKING LNG TRANSFER IN OPEN SEAS

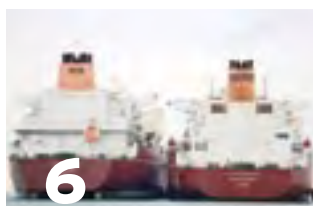
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8 DEPARTMENTS.  
300 PEOPLE.  
ONE RIG MOVE.

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## PIONEER

THE MAGAZINE OF QATARGAS OPERATING COMPANY LIMITED

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# TAKING STOCK

**A**s we enter another year, Qatargas moves ever closer to achieving its goal of becoming the world's premier LNG company. Our mission in Qatargas, as an energy company, is to provide energy for today and for tomorrow - natural energy for life and for a better world. And as we pursue this mission, we are confident that the strategic direction we have chosen is sound. We have secured long-term customers in more than twenty countries in four continents and are bringing our clean-burning LNG fuel safely and reliably to wherever in the world it is needed the most. Today, it is an immense source of pride for us, as members of the Qatargas team, to be recognised within the global energy business as market leaders in the LNG sector.

Of course, achievement in any field is not easy. For us, it is the result of effective planning and the application of intelligence, dedication and sustained effort by many people working together, inspired by a common compelling purpose. It depends on constant vigilance with respect to safety and environmental performance. It relies on the maintenance of a very high level of operational excellence in everything we do and a relentless focus on self-analysis and continuous improvement.

At Qatargas, we have a talented and engaged workforce, a strong and trusted brand, exceptional innovative capabilities, the support of world-class partners, long term sales commitments, and a solid balance sheet, all of which differentiate us in the market and significantly strengthen our business.

Our commitment to operational excellence obliges us continually to improve the way we manage our production assets, seek more cost effective ways to leverage the value in our value chain, with minimal environmental and social impact. In this, Qatargas is dedicated to seizing every opportunity to optimise production volumes by improving plant availability and reliability, reducing losses, and maintaining production levels through improved asset integrity along with a sensitive concern for the environments and communities touched by our business.

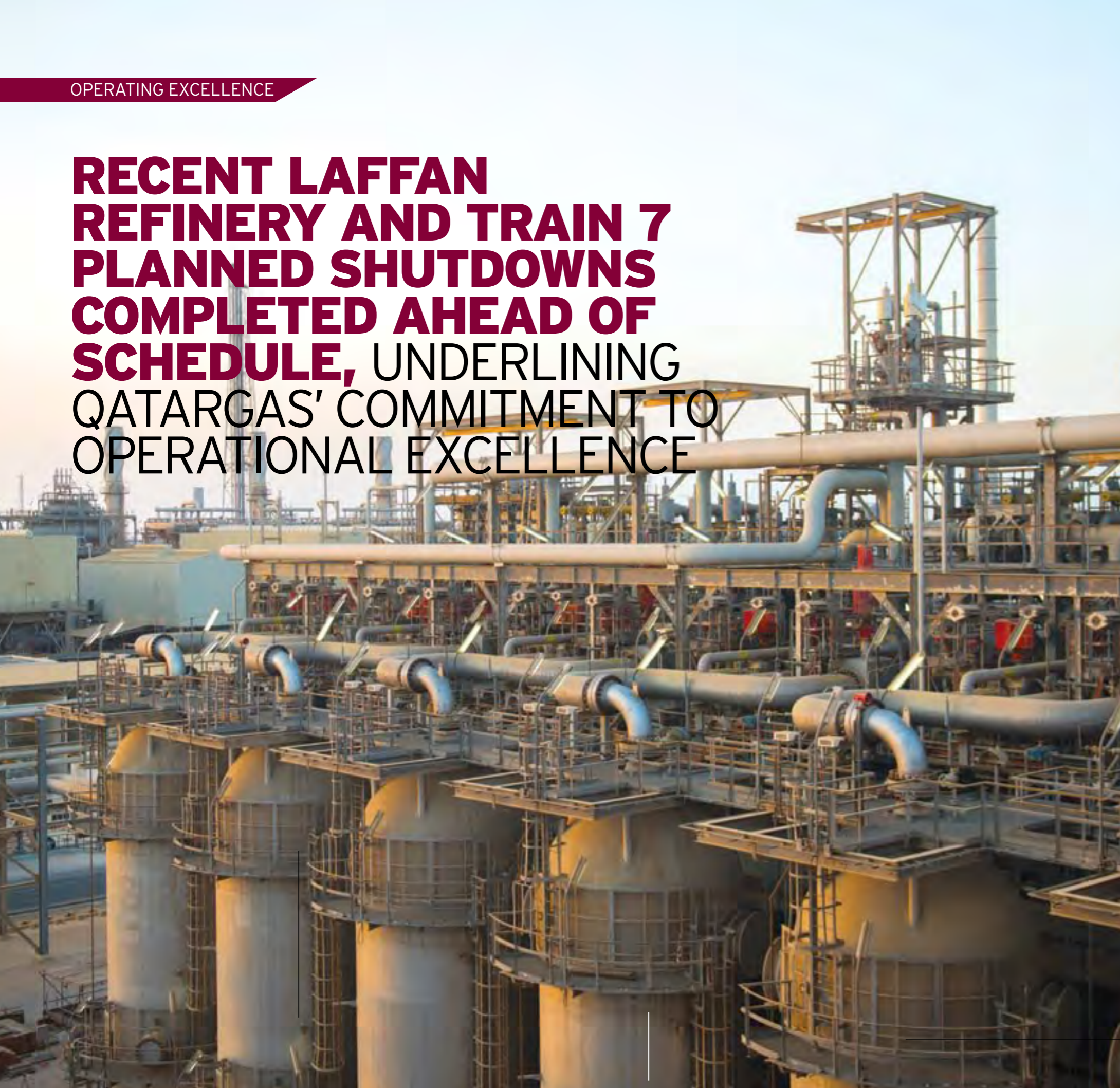
On the threshold of another event-filled and challenging year for our company, I am proud to recognise the contribution of our people in making Qatargas what it is and preparing it for what it can become.

**Khalid Bin Khalifa Al Thani**  
Chief Executive Officer



**On the threshold of another event-filled and challenging year for our company, I am proud to recognise the contribution of our people in making Qatargas what it is and preparing it for what it can become."**

# RECENT LAFFAN REFINERY AND TRAIN 7 PLANNED SHUTDOWNS COMPLETED AHEAD OF SCHEDULE, UNDERLINING QATARGAS' COMMITMENT TO OPERATIONAL EXCELLENCE



During the first quarter of 2014, Qatargas successfully implemented two significant planned shutdowns. The first-ever full-scale Laffan Refinery Planned Shutdown was concluded in February and the Train 7 Planned Shutdown completed in March. Both involved several thousand contractor personnel, in addition to company employees and were successfully executed ahead of schedule without any lost time incidents recorded.

### Laffan Refinery Shutdown

On 12th February 2014, Laffan Refinery's first product, gasoil, was produced. Meeting all specifications, the product was routed to Tank Farm storage at 03.00 am, almost a whole day ahead of schedule. The occurrence marked the conclusion of the refinery's first planned shutdown since it was commissioned and handed over to Qatargas at the end of 2009.

Based on the initial design, a shutdown frequency was planned for every five years. It was a new experience for Qatargas to perform a planned shutdown for a refinery, but the Company's past experience with LNG plant shutdowns enabled Qatargas employees to perform this particular planned shutdown to the most exacting standards and set the performance bar even higher for the future.

The plant shutdown, decommissioning, execution, commissioning and start-up was successfully executed and completed on 12th February, 2014 at 10.00 hours - 14 hours ahead of schedule, following 33 days and 10 hours of relentless hard work. This was classified as a high-low complex shutdown that consumed one million man-hours with a peak of 2350 people working on site. Management's main focus in the planned shutdown was on safety, quality and zero waste.



**All of this couldn't have been achieved without the tireless efforts, excellent teamwork and the cohesion between all the teams involved."**

**- Abdel Hamid Boutalbi,**  
Shutdown Manager.

The work was completed on schedule as a direct result of these three fundamental pillars, and completed a remarkable quality of work with zero recordable incidents or accidents and zero rework. No other incidents of any kind were recorded and the Company's challenging Planned Shutdown Key Performance Indicators (KPI's) were beaten in all their numbers. In the approximately one million man-hours taken to complete the job, no one was hurt and those involved were able to return home safely.

"All of this couldn't have been achieved without the tireless efforts, excellent teamwork and the cohesion between all the teams involved, including the Qatargas Contractors," said Abdel Hamid Boutalbi, Shutdown Manager.

On behalf of the Shutdown Management Team, Abdel Hamid thanked all Qatargas employees and contractors involved, and expressed appreciation for the trust put in the team by the Company's higher management.

**1**  
**Million**

The Laffan Refinery shutdown was classified as a high-low complex shutdown that consumed approximately one million man-hours, with a peak of 2350 people working on site.

Alain Duvall, Refinery Asset Manager, expressed his appreciation to everybody involved in this successful event. He noted that without such great teamwork, this outstanding outcome would not have been possible.

Mats Gjers, Chief Operating Officer-Operations also commended the team for its success mentioning in particular the leadership shown in executing the refinery's first planned shutdown so well,

the work of a professional and experienced shutdown maintenance team, tried and tested from LNG shutdowns, and underlined the fact that nothing would have been possible without the team work demonstrated by all parties in the planned shutdown scope, including those from Refinery Projects, Ventures, Engineering, Medical and SSEQ.

Calling their contribution an example of "Premier performance," Mats added, "The

new shutdown slogan 'SAFETY, QUALITY, WASTE' is a great one driving home the two important table-stakes that we never compromise on and driving continuous improvement by eliminating waste. I am sure that next planned shutdown in five years' time will be even better with that attitude of being a learning organization driving out waste. Thanks for all the hard work and the focus on delivering SAFETY, QUALITY, WASTE."

//

**I am happy to report that all the objectives, in order of priority Safety, Quality, Schedule, and Costs, were met or exceeded. All discovery work, start up challenges, and all other unplanned events could be addressed safely and timely. Thanks to excellent integration of Operations and Maintenance/projects activities, the overall schedule target could be achieved, with 34 days of production loss."**

- Abdel Hamid Boutalbi, Shutdown Manager.

//

**This was a premier planned shutdown under the dual leadership of Ahmad Ashkanani and Abdel Hamid Boutalbi. Great teamwork with Operations and Maintenance and the integration of activities with everyone playing their part in an excellent manner from all the various teams involved: Ventures, Contractors, SEQ, Supply, Security, Medical, EMS etcetera. The success is due to everyone's performance during the shutdown."**

- Mats Gjers, Chief Operating Officer-Operations.

**Mats Gjers, Chief Operating Officer-Operations, listed some of what he called "the extraordinary highlights" of the Train 7 planned shutdown:**

- Delivery on all three of the Company's Safety, Quality and No Waste philosophy: With waste reduction becoming part of the Qatargas way of doing things, everyone was trying to do better than last time.
- Setting a new standard for Quality in preparation of Permits To Work (PTWs): For the planned shutdown only 3.3 percent unplanned and 4.8 percent cancelled PTWs.
- Setting another standard with regard to Overall Flaring: Only around 250 MMSCF in planned shutdown and Sulphur Unit (SU) flaring. Below 40 percent of a challenging target, again setting a new standard.
- Gas freeing and defrosting: Excellent use of N2 giving early access with rapid gas freeing and short start up with quick defrosting.
- Ventures flare reduction projects: Coming in many days ahead of schedule.
- All of the above resulting in a planned shutdown duration of only 20.4 days. That is 13.6 days shorter than the business plan assumptions and 7.6 days shorter than the company's KPI based on matching the Train 6 planned shutdown performance in October 2013.



**20.4**

Train 7 shutdown duration, 13.6 days shorter than business plan assumptions.

**Train 7 Shutdown**

On the 21st March, 2014 at 05:45am, LNG production resumed safely from Train 7 after a major planned shutdown executed approximately 7.7 days ahead of schedule. This was a remarkable achievement by any standard in the LNG industry. According to Abdel Hamid Boutalbi, Qatargas Shutdown Manager, the Train 7 planned shutdown was "another significant milestone in Qatargas' history of maintaining our assets, continuously striving for maximum optimisation, while performing our business safely."

Abdel Hamid described how the shutdown was a major challenge for Qatargas, as Operations had to consolidate the seamless integration of the Operations activities with the Maintenance and Engineering activities, in the safest possible manner, while avoiding waste and paying the utmost attention to the primary goals of safety and quality. "All Qatargas and contractor personnel involved in this planned shutdown are to be commended for embracing our safety culture and reporting any non-safe act and learning from it on the spot," Abdel Hamid said, offering his personal thanks to everybody involved in the shutdown and for the continued support all the way through provided by Qatargas' senior management team.

Addressing the shutdown team, Gjers lauded what he called the amazing improvements they had made as a

team over the last two years on planned shutdown flaring. "I am very impressed at your continuing to find new and better ways of doing things, and for your premier teamwork," he said, adding, "For example, significant flare reduction in planned shutdown operations achieved through the collaboration between Safety Environment and Quality, Operations and Engineering and Ventures. This shows the amazing level of performance that can be reached by teamwork between all the Qatargas entities involved."

Gjers recalled how QG1 and QG2 had started the improvement journey around two years ago and how each asset had learned and further improved on the current best practice, which he said perfectly exemplified the culture of continuous improvement at Qatargas. "If we had mentioned 238 MMSCF as Sulphur Unit flaring two years ago we would have said 'impossible without major investment. Now it is there without any major investment,'" he added proudly.

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**I am sure that the next planned shutdown in five years' time will be even better with the attitude of being a learning organisation driving out waste." - Mats Gjers** Chief Operating Officer-Operations.

**THE PLANNED SHUTDOWNS IN NUMBERS**

**LAFFAN REFINERY SHUTDOWN**

Duration of the project (product to product):

Planned **34** Days

Actual **33.5** Days

No. of jobs on critical path (Heat exchangers service and inspection)

Actual **49** Exchangers

Estimated no. of people mobilised on site (at its peak)

Actual **2350**

Estimated man-hours  
Actual **1,000,000**

**TRAIN 7 PLANNED SHUTDOWN**

Duration of the project (LNG to LNG)

Planned **28** Days

Actual **20** Days, **8** Hours (7.7 days ahead of schedule)

Number of Permits to Work registered

Actual **1652**

Estimated no. of people mobilised on site (at its peak)

Actual **1977**

Estimated man-hours  
Actual **771,000**

# SHIP TO SHIP



## Qatargas successfully performs groundbreaking LNG transfer in open seas

Qatargas-chartered ships carry out the first LNG Ship-To-Ship (STS) transfer between two Q-Flex vessels at anchor in open waters, and in so doing, Qatargas gains confidence to pursue similar large-scale operations.

**Q**-Flex vessels, with a capacity in the range of about 216,000 cubic metres (m<sup>3</sup>), are longer than the height of Eiffel Tower and twice the length of a football field. Thus it was no ordinary operation when Qatargas-chartered ships carried out the first Ship-To-Ship (STS) transfer operation of liquid natural gas (LNG) between two Q-Flex vessels, following a minor incident involving one of the ships while transiting the Singapore Straits.

What made the operation unique was the added complexity of conducting the transfer at anchor in benign open waters of the Raffles Reserve anchorage in the Singapore Straits. In the past, there have been about 12 to 15 LNG STS transfers done in open waters, but with much smaller, conventional LNG vessels, sized between 125,000m<sup>3</sup> and 170,000m<sup>3</sup>.

Performing the operation safely and successfully provides Qatargas with the confidence to be able to utilise STS transfer on large LNG vessels, with the added

benefit of potential future commercial applications within the industry.

Performed by a specialised contractor with LNG STS expertise, the operation utilised specialised equipment to transfer a cargo of approximately 211,000m<sup>3</sup> from the 216,000m<sup>3</sup> *Al Gharrafa*, the discharging ship, to the 217,000m<sup>3</sup> *Al Ghashamiya*, the receiving ship. *Al Ghashamiya* was first brought into the Singapore Straits and initially anchored at Sudong Special Purpose Anchorage as the receiving vessel for the transferred cargo.

While the actual transfer of the LNG took six days, the entire STS operation including planning and execution took close to a month to complete, involving over one hundred individuals from multiple organisations. In order to ensure the safety of people and protection of the environment, rigorous planning, including formal risk assessment, was completed and approved by all concerned parties prior to the start of the STS operation, which Qatargas had identified as a key element in ensuring that the company's commitments



**Q-Flex vessels are longer than the height of Eiffel Tower and twice the length of a football field."**

and obligations to its customers are met. As part of Qatargas' incident mitigation plans, the company had previously entered into a contract with a specialised LNG STS contractor to provide the equipment and expertise for emergency STS operations anywhere in the world within 60 hours of mobilisation. Qatargas issued instructions to mobilise the equipment so that it would be available onsite as one of several options being pursued to safely off-load the LNG cargo. At the same time, planning for the STS operation commenced with Qatargas' Shipping leading a team that included the ship owners and managers of the two vessels. An onsite STS Task Force initially set up in Doha was later transferred to Singapore to join forces with the STS services contractor 10 days prior to initiating the operation. The overall plan identified four critical phases for the STS operation:

- Phase 1: Planning, risk assessment, equipment deployment and preparations for transfer
- Phase 2: Mooring operations
- Phase 3: STS transfer operation
- Phase 4: Demobilization and unmooring operations

**Successful delivery**

Twelve days following the successful completion of the STS transfer, *Al Gashamiya* delivered the cargo to its discharge port, consuming 1600 hours to execute all phases of the operation. This, of course, was not free of challenges. Some issues experienced during the transfer included getting the cargo conditioned before commencing the transfer and vapour management during the operations. The maximum transfer flow rate was 1890 m<sup>3</sup>/hour, while the tank pressure differential between the vessels was kept within the range of 25 to 35 mbarG. Collectively, between the two vessels about 480mT of Boil Off Gas (BOG) was burnt through the Gas Combustion Unit (GCU) in order to maintain optimum cargo conditions for the transfer. The re-liquefaction system of the two vessels was also kept operational at all times in order to maintain cargo composition and conditions (the gas in a liquid condition). The STS operation between the two large LNG carriers reinforces Qatargas' position and Qatar's vision to remain the world's largest and most reliable producer and supplier of LNG. It further underlines the company's continuous commitment to safely and efficiently manage its operations and meet customers' needs. **Q**

**PHASE 1**

Carried out from December 28 to January 18, the first phase of the STS operation included the following key activities:

- Establishing case-specific procedures and plans
- Risk assessment of the entire operation
- Soliciting the approval from all parties
- Obtaining final approval from all concerned parties to proceed



**The success of this pioneering STS operation is an evidence of Qatargas' flexibility and preparedness to go the extra mile to ensure reliable supply of LNG to our global customers. My thanks are due to the team for all the great efforts done to bring this operation to a very successful conclusion and in working to ensure our customers' priorities are met."** - Alaa Abu Jabara, Chief Operating Officer-C&S, Commercial and Shipping Group.



**I am very proud of the professionalism and efficiency demonstrated by the QG team and all the parties involved in executing this complex operation flawlessly from beginning to end. This first STS operation involving two Q-Flex vessels represents another pioneering milestone in Qatargas' history."** - Abdurrahman Mohamed M. A. Al Mulla, Shipping Manager, Shipping Department.



**The operation just felt right from the very initial stages. It was a perfect blend of teamwork and support and for the first time involving two ships of the size of our Q-Flex I think this has made history...a remarkable success for Qatargas."** - Captain Vishal Chaudhary, Qatargas Marine Specialist on board *Al Gharrafa* during the STS. Notably, in 2006, Vishal was Chief Cargo Officer on the *LNGC Excalibur* during the very first LNG transfer in the industry between that vessel and *LNGRV Excelsior* in the Gulf of Mexico in 2006.

**PHASE 2**

The second phase, which involved the mooring operation, was executed on January 21 with the vessels strictly adhering to the mooring plans developed and assessed, taking into consideration local weather conditions and operating limits (due to high volumes of ships transiting the area in the Singapore Straits). *Al Ghashamiya*



was brought from ASSPU to moor alongside *Al Gharrafa*, laid at anchor with four special low-pressure fenders deployed between the two vessels now moored side by side. A safety zone of 500m was established and it was agreed with the local authorities that traffic would be kept clear of the two giant Q-Flex vessels.



**PHASE 4**

Disconnection of the cargo equipment (hoses) between vessels to prepare for separation was completed approximately within two hours of finalising the cargo transfer. As per the agreed plan, the unmooring operation commenced on January 28 and was completed within a period of two hours. *Al Gharrafa* maintained her anchored position and *Al Ghashamiya* repositioned for bunkering into ASSPU around noon. STS equipment on board the two vessels was demobilised and landed ashore using the specialised LNG STS contractor's marine service vessels.



**PHASE 3**



Between January 22 and 28, cargo equipment connections were initiated shortly after the vessels were moored side by side. Following the pre-determined agreement between the ships and local authorities, cargo transfer operations commenced on January 22. Cargo connections, comprising of eight-inch cryogenic hoses with three liquid lines and one vapour line, took 3.5 hours to connect from one ship to the other. Considering that LNG is stored at a temperature of approximately 160°C, it was necessary to cool down the hoses to be ready for the transfer of the LNG. This cooling down operation took 1.6 hours to execute. The STS cargo transfer of the entire LNG load from *Al Gharrafa* to *Al Ghashamiya*, which took 5.6 days, concluded on January 27.

**1600 hours**

The total time spent in completing all phases of the STS transfer.

**211,000 m<sup>3</sup>**

The volume of LNG transferred from the 216,000m<sup>3</sup> *Al Gharrafa*, the discharging ship, to the 217,000m<sup>3</sup> *Al Ghashamiya*, the receiving ship.

**1890 m<sup>3</sup>/hour**

The maximum transfer flow rate during the operation.

**480MT**

The amount of Boil Off Gas (BOG) between the two vessels that was burnt through the Gas Combustion Unit (GCU).

# A STUDY IN COMPLEXITY:

# 8 DEPARTMENTS. 300 PEOPLE. ONE RIG MOVE.



In late 2013, Qatargas Reservoir and Production Department carried out a highly successful rig move from Offshore Wellhead Platform 3 to Wellhead Platform 1 on the North Field Bravo production complex, as part of the ePMP (Extended Plateau Maintenance Project) drilling project for the QG1 joint venture. Yet, though the operation was completed safely and without incident, it was not a simple endeavour.



The unexpected availability of the drilling rig Noble Jimmy Pucket on contract to RasGas in 2013, allowed the Qatargas Reservoir and Production Department team to take maximum advantage of this opportunity in order to schedule additional work on the Qatargas 1 complex in North Field Bravo, including the drilling of two new wells on Qatargas Wellhead 1 (far right).

The Noble Jimmy Pucket arriving at the Qatargas 1 complex in North Field Bravo.

Drilling rig Noble Jimmy Pucket.



**L**arge swells and strong winds buffeted the Noble Jimmy Pucket rig during its first attempt, which was aborted due to safety concerns. This was followed by a nervous wait of more than a week for all involved - before a brief window in the weather again appeared and the Qatargas team sprang back in to action.

**Mitigating the Risks**

A drilling rig is a large and heavy structure, much larger than a wellhead platform. Drifting loose in heaving seas it has an immense capacity for destruction if it strikes a platform, potentially endangering human life and causing millions of dollars of damage and the accidental release of gas.

The speedy and efficient execution of the operation was also key, in order to reduce any potential losses for Qatargas commercial divisions, as production would have to be shut in during the operation. "We need to minimise any impact to the customer and business disruption," said Sheikh Khalid Abdulla Al Thani, Chief Operating Officer of Qatargas. "At the same time we are extremely focused on safety."

A rig move cannot be carried out unless there is a sufficient good weather window. In the Gulf off the Qatar coast, this means less than 15 knots of wind and less than five feet significant wave height. This is a challenge during the onset of the windy season, when the North or Shamal wind blows regularly the Gulf. It was observed from the seabed survey, that there were imprints of the legs of a previous rig of a slightly different proportion. This presented an unknown element of risk if any leg of the Noble Jimmy Pucket slipped into one of these depressions while being positioned, it would cause the legs to bend or break, which may even cause the rig to fall towards the platform or to fall into the sea. Other positioning options had been considered during planning, but fortunately the first option of positioning worked - albeit with some effort.

**Move on to QH1: The First Attempt**

On 18 November 2013, drilling rig Noble Jimmy Pucket had completed work on Qatargas Wellhead 3 (QW3) and was ready to move to Qatargas Wellhead Platform 1 (QW1). The move started on a beautiful day with light wind. The rig was pulled off QW3 by three tugboats and was towed

**RIG MOVE TIMELINE**



**//**  
**If the sediment on the seabed under the leg is not firm enough, the rig legs can suddenly sink in or slide away sideways."**

to a standby location, 500 metres off the North Field Bravo complex. There the rig lowered its legs and jacked up to an air gap of 25 feet above the sea.

Unfortunately, by the time the wells on QW3 were operational and QW1 was ready to receive the rig, the weather had broken, with winds up to 32 knots and swells of up to 10 feet. This caused 10 days of standby, agonisingly waiting for a suitable weather window.

On 26 November, a first attempt was made to move the rig in close. The wells on the QW1 were closed in, and the gas in the pipes and vessels was flared off. By early morning the rig was lowered into the water but the tugs bucked in the still considerable current, swell and wind.

"We faced a safety issue because if the boats could not handle the rig precisely and if the rig hit the platform at any time, there will be a disaster, so we aborted the attempt," Manas Dash, Drilling Coordinator at Qatargas, told *The Pioneer*.

Confident in his authority to do so, Manas stopped the rig move and called the Offshore Installation Manager and asked him to start up the wells, as they were not going to complete the rig move operation. "The Reservoir and Production Manager, who was also aboard NFB at the time, was appraised of the situation. However, in line with Qatargas commitment to safety, there was full management support for the call to stop the operation," Manas added.

**Rig Move Redux**

On 29 November 2013, a suitable weather window opened up and the rig was jacked down into the water and again slowly towed towards the platform by the tugs. "We moved little more slowly than we

## COMPLEXITY IN COORDINATION

Qatargas interdepartmental cooperation ensures rig move success

In January 2013, it was decided to drill two new gas wells to extend the production plateau for QG1. The drilling project was named Extended Plateau Maintenance Project, EPMP. The unexpected availability of the drilling rig Noble Jimmy Pucket on contract to RasGas allowed the Qatargas Reservoir and Production Department team to schedule additional work, along with the new wells, to take maximum advantage of this opportunity.

The additional operations included recompletion of existing wells on another horizon of the field (part of the Plateau Maintenance Project (PMP) Phase-2) and two trial wellhead repairs on QG1 wells. Extensive planning and business sensitivity analyses were done to optimise the schedule and to sequence of all the activities with a view to avoiding unplanned loss of production.

A key individual in the rig move was Abdurraouf Abuagela, Head of Gas Production at Qatargas, who coordinated between the stakeholders involved in and affected by the rig operations. In ideal circumstances, he explained to *The Pioneer*, there would be a year to 18 months of planning before such a project, but with the unforeseen access to Noble Jimmy Pucket in early 2013, the departments involved had to develop the best integrated drilling, maintenance and production schedule on short notice.

To minimise impact on production, this operation would have to coincide with the Train 3 shutdown so that no extra gas was lost, necessitating a month postponement to accommodate the rig arrival. Given the magnitude

of shutdown work, involving many contractors, and the general uncertainty of rig schedules, this was a highly sensitive decision made by higher Qatargas management.

Coordination included constant communication with all stakeholders, including QG1 Shareholders, QG1 long-term LNG customers and other internal departments of Qatargas. The planning and scheduling exercises paid off, as there was no adverse impact on gas production due to the initial rig mobilisation from Barzan.

Drilling progressed well and by the middle of November 2013, the drilling rig departed from QW3 to QW1. In the lead up to the rig move operations in November, a major effort was required to coordinate activities across eight different departments within Qatargas.

The operation, said Abdurraouf, was an intricate balance of ensuring gas output was maintained so that commercial could meet and fulfil its sales commitments, but also so that there would be no overcapacity, that tank tops were not exceeded and that the right composition of gas was being pumped onshore.

This needed an exceptional amount of cooperation - and compromise at

times - from all departments. "We were managing Offshore Production and Commercial and Shipping to fulfil orders, onshore to maintain production with right gas composition and finding a weather window for a move," added Abdurraouf, "and attending daily meetings to keep everybody aligned. The risk was that if we made the wrong decision we would have to do an unscheduled shutdown or miss a shipment."

Another complication was that the mix of gas now coming from offshore had to be even more closely monitored as the gas composition would change when the new wells on QW3 came online. Much time was spent in fact, added Abdurraouf, on managing this area of concern, 24 hours a day, seven days a week and by ensuring that Offshore and Onshore were in constant contact. Overall, the final success of the rig move operation is testament to the commitment to teamwork within Qatargas, especially considering the shipping schedule was not affected adversely at all, despite the considerable challenges and uncertainties involved in the rig move activities.

normally do in other cases," explained Manas. "So close to the bridges and platforms of NFB complex the tugboats have limited manoeuvrability. It took us time to move in this way, inches by inches, but ultimately we reached the final positioning."

As soon as the rig was on station, the legs were lowered and planted on the seabed and the rig was ready to jack up next to QW1. A geomatics survey showed that the rig was placed within one foot of the target position.

The next stage was the most critical. To test whether the seabed was safe, the rig was jacked up to two feet above sea level and then ballasted to test the three legs in succession. Once this was completed safely, the rig was jacked up to working height above the platform - in this instance 64 feet above mean sea level - and everybody celebrated the successful move to the platform.

Following the success of the rig move, the drilling package with the derrick (drilling mast) was hydraulically moved sideways over the platform so that the drillers could prepare the rig for drilling activities. Drilling began on 4 December 2013, but the wells on the platform remained closed in until the drilling bit was deep enough and far enough away from the adjacent wells, to ensure that a collision between wells was no longer likely.

Then the producing wells could be reopened and production operations could resume. By the time of writing this article in March 2014, the well had reached the final target depth and was being logged.

Sheikh Khalid Abdulla Al Thani was elated at the operation's success. "To come and move the rig in November is a considerable challenge because you cannot do anything about the weather," he said. "I feel very proud to be part of this team, who have accomplished a very difficult operation." ❖

## Noble Jimmy Pucket rig move documentary showcases best of Qatargas Operational Excellence

A video documenting the recent Qatargas 1 Rig Move Operations was commissioned by the Qatargas Reservoir and Production department.

In order to show the wider Qatargas community such an interesting activity and to demonstrate how the Qatargas values are implemented offshore, a short documentary was made of the Noble Jimmy Pucket Rig Move Operation. This will be shown at various events and meetings. "The making of the film was a challenge in itself, as a film crew had to be trained to go offshore" said Jan Wind, Head of Onshore Drilling, who coordinated the work with video production company. Permission was required from Qatar Petroleum to have a film crew shoot offshore and security clearance had to be obtained to make aerial photography possible. A helicopter had to be arranged for the actual shooting. The R&P department wishes to thank Offshore Operations and the Logistics department for their support in making the documentary possible.



**The making of the film was a challenge in itself, as a film crew had to be trained to go offshore." - Jan Wind, Head of Onshore Drilling**

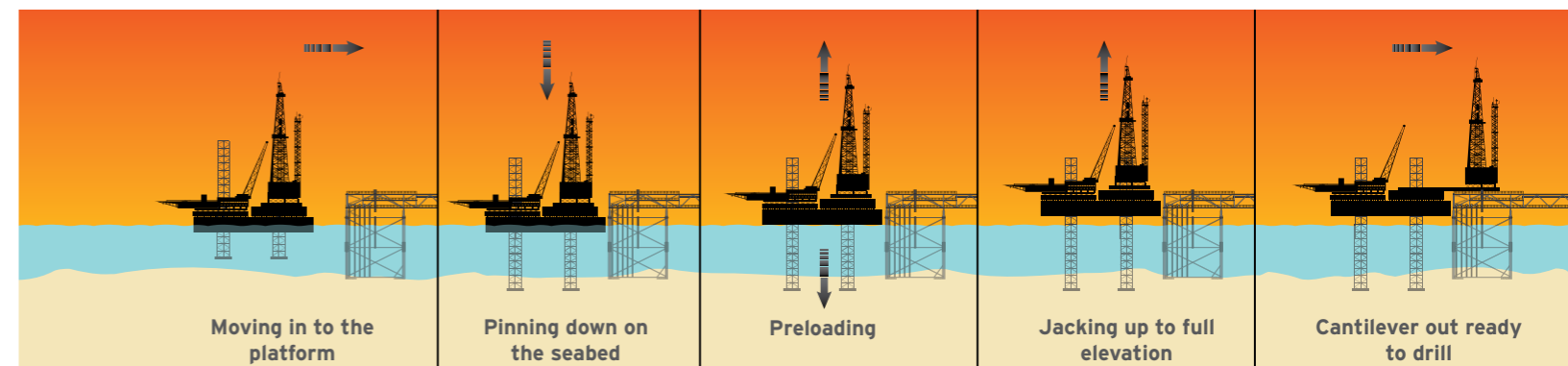



# 8

The number of departments involved in coordinating the move of the rig to North Field Bravo, namely:

- 1) Reservoir and Production,
- 2) Qatar Offshore Operations,
- 3) Onshore Operations,
- 4) Engineering,
- 5) Ventures,
- 6) SEQ,
- 7) Commercial and Planning and 8) Shipping.

### Noble Jimmy Rig Installation



# LAFFAN DIESEL HYDROTREATER PROJECT REACHES SAFETY MILESTONE AND PERMANENT ENERGISATION

The Laffan Diesel Hydrotreater (DHT) project, which in January started receiving permanent 20kV power supply from the Laffan Refinery electricity network, has reached a new safety record of four million man-hours without any lost-time accident.



**This is the third time on the project that we have celebrated a major safety milestone and I look forward to maintaining this excellent standard."**

**Salman Ashkanani,**  
Chief Operating  
Officer, Refinery  
Ventures.

**T**he permanent works' construction phase for the DHT project started in July 2012, while the project is targeted to start in April 2014. When completed, it will produce diesel with less than 10 parts per million of sulphur, hence excelling in the "best in class" Euro 5 specification.

Qatargas Project Management Team (PMT) together with the engineering, procurement and construction contractor for Samsung Engineering and Construction, have adopted an integrated approach to safety on the project. The initiative involves working closely with the workforce to ensure excellent health and safety outcomes for all employees associated with the project.

The sub-station's permanent energisation marks an important milestone in the progress of the DHT

project. Permanent energisation of DHT 20kV sub-station means its site receives permanent power supply available to bring 6.6kV and low voltage systems on-line. This will allow further commissioning and start-up of associated plant and equipment.

The celebration of safe conditions and record man-hours was complemented by an award ceremony acknowledging the contractor and sub-contractors involved. Speaking at the event, Salman Ashkanani, Chief Operating Officer-Refinery Ventures, said, "This achievement required the close coordination of our contractor with the PMT," adding, "We were also very well supported by the Laffan Refinery Asset, Qatargas technical support and Operations Development Department. The teamwork with the various Qatargas departments was first class".

Lance Pretorius, PMT Safety Lead,



**Through continued commitment and support, we can go a long way to achieving our goal of zero injuries at the end of the project."** - **Lance Pretorius,** PMT Safety

Lead.

focused on the importance of teamwork in maintaining the safety philosophy, saying: "Recently we have [paid] intensive attention to doing the basic things well and being proactive. We are sure this will lead to an incident- and injury-free workplace and so far, our record supports this." Hoping to maintain the safety record till the end of the project, Pretorius said, "When it comes to safety, there will always be work to do but through continued commitment and support, we can go a long way to achieving our goal of zero injuries at the end of the project."

Addressing the audience, Neil Bonner, DHT Project Manager, stressed the importance of hard work by people involved in the project. "There has been an enthusiastic and ongoing safety commitment," he said, "from project management, supervision and all of the

workforce to provide continual training; preventative programmes; communication of safe work practices; sharing of lessons learned from observations and incidents, and good site safety vigilance so that everyone works, and goes home safely every day." Explaining goals for the near future, Bonner added, "With approximately three weeks to go to the shutdown phase of the works in the Refinery, the project's focus remains on a safe and timely completion thereafter."

The DHT project forms part of Qatar's National Vision to ensure efficient energy supplies for Qatar while meeting the most stringent environmental specifications. The processed diesel from this project will be distributed within the country through the existing truck-loading gantry facilities, also constructed by Laffan Refinery Company and now being operated by Qatar Fuel (WOQOD). ◻

# DELIVERING A HIGH LEVEL OF PRODUCTIVITY AND DEPENDABILITY THROUGH QIS-RELIABILITY

QIS-Reliability demonstrates Qatargas' commitment to customers by exceeding customer expectations through world-class operational reliability performance.

**T**he Qatargas Improvement System or QIS-Reliability is a key enabler in supporting the Qatargas vision to establish and maintain its position as the world's premier gas producing company.

QIS-Reliability is a continuous improvement process, directing maximum effort into managing and eliminating incidents of greatest importance that affect or potentially affect our customer delivery promise for non-SHE related incidents, complementing existing STOP and INR programmes.

Framed another way, QIS-Reliability manages reliability incidents from problem identification to solution statement, managing risks in a structured manner.

"QIS Reliability incident management is a key process that is QGMS-compliant and will support Maintenance and the Asset Teams on our journey towards Qatargas' vision to be the world's premier LNG company," added Sheikh Khalid Abdulla Al Thani, Chief Operating Officer, Engineering and Ventures.

"We will collectively work to improve our Reliability: One Team, One System!"

Qatargas has implemented QIS-Reliability within the asset reliability management system of choice, Meridium APM. Its close integration with SAP and other continuous improvement programmes enables QIS-Reliability to evolve and grow with the business, providing a path for a fully integrated

solution to operational reliability management.

## The QIS-Reliability Process

QIS-Reliability provides the framework for the management of risks associated with reliability incidents and the management of their mitigating solutions. It encapsulates the decision-making process to quantify and prioritise reliability incidents and manage them through to resolution.

An essential quality of QIS-Reliability is that it provides a consistent approach and full transparency in reliability incident management, enabling the entire decision-making process throughout each incident to be viewed and audited.

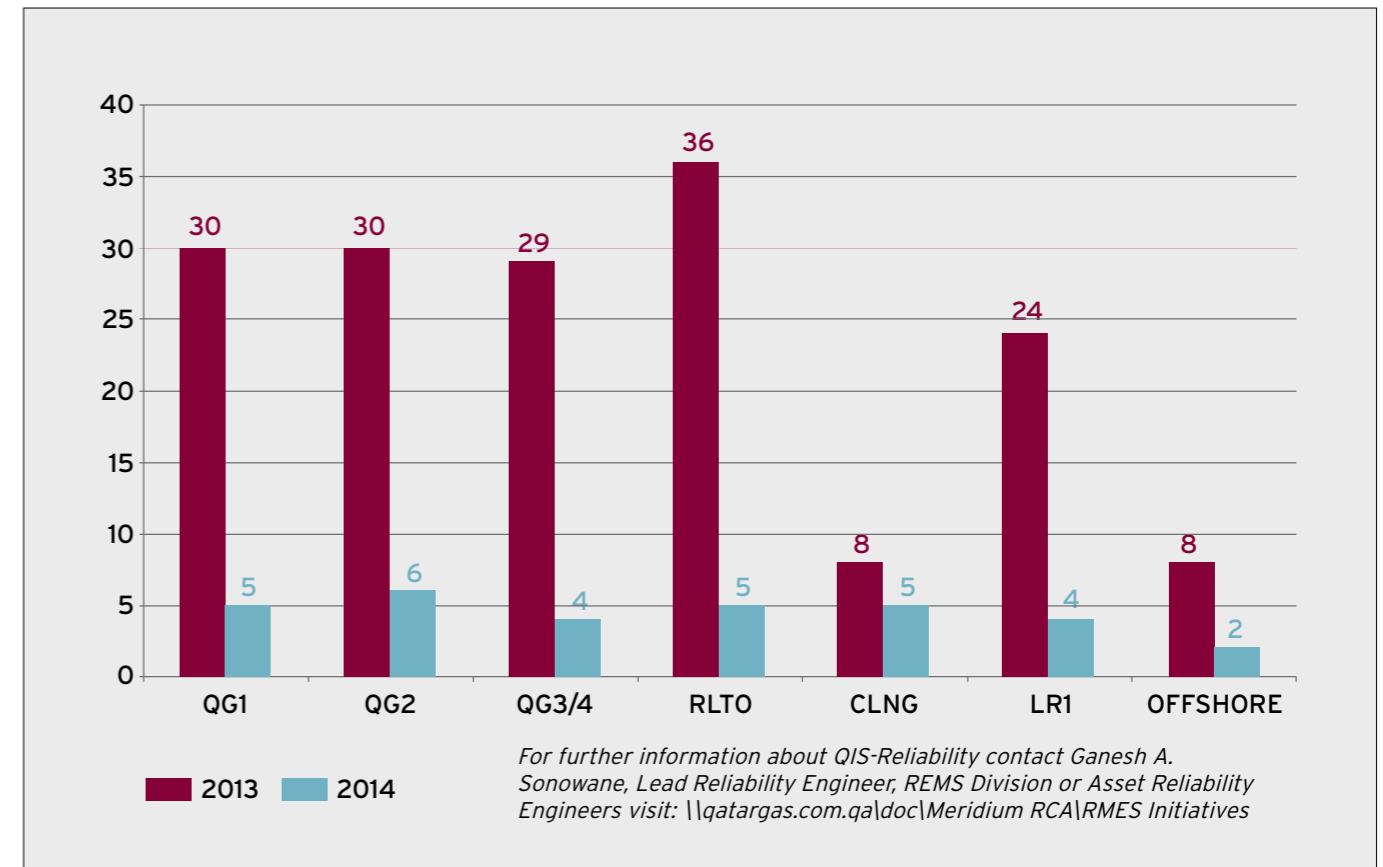
The key elements of QIS-Reliability are as follows:

- Reliability Incident reporting (statement of the incident or near-miss)
- Risk evaluation and prioritisation (quantification of risk and priority)
- Root Cause Failure Analysis (RCFA) initiation and stakeholders' endorsement and approval (workflow and investigation)
- Communication vehicle for all stakeholders (including recommended mitigating actions status)

QIS-Reliability is not intended to replace or mirror other defect or event reporting or management tools and processes. Instead, it is meant to capture and manage the reliability incidents or near-misses that require further

**QIS-Reliability is a continuous improvement process, directing maximum effort into managing and eliminating incidents that potentially affect customer delivery."**

## QIS Reliability Incident Statistics



investigation to find the root causes in order to prevent reoccurrence (beyond routine repair and reinstatement activities).

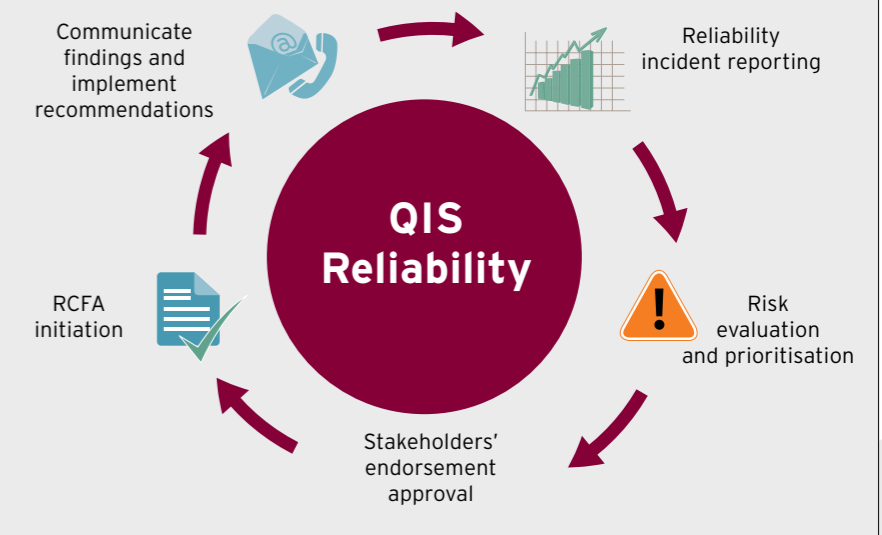
### Target Audience

The strength of QIS-Reliability is that it can be utilised by operations to bring focus into improving operational reliability by addressing their areas of concern. QIS-Reliability clearly demonstrates corporate level commitment to our customers in the marketplace, by relentlessly moving forward, positively and proactively to improve its business efficacy. It's one of the many qualities that differentiate Qatargas from its competitors.

"After three months post-rollout in all assets, we have received excellent feedback from Asset Managers and Asset Teams," said Ganesh A. Sonowane, Lead Reliability Engineer, REMS Division. "Every incident in QIS-Reliability is risk ranked and prioritised with the Asset Technical Committee. This helps us as a team to concentrate on the highest value investigations and studies."

## Continuous Improvement Process

The management of Reliability Incidents from problem statement to solution statement through workflows and processes to improve Operational Reliability.



# QATARGAS REACHES A SIGNIFICANT SAFETY MILESTONE

The Plateau Maintenance Project (PMP) Team surpasses a significant milestone of 600,000 STOP observation cards since inception of the project.



In celebration of achieving 600,000 STOP observation cards, all members of the PMP workforce were rewarded by the management team.

"STOP observation cards are a true leading safety indicator as they document as well as require mitigation of unsafe conditions and behaviours, before they result in incidents or injuries", said Sheikh Khalid Abdulla Al Thani, Qatargas Chief Operating Officer, Engineering and Ventures, marking the proud achievement for Qatargas in reaching 600,000 STOP observation cards. "The safety culture and climate of PMP, is centred around our STOP programme, which is consistent with Qatargas' Incident- and Injury-Free culture," he added.

The "Safely Finishing Strong" campaign was initiated by PMP, which raises awareness about systems completion and pre-mechanical completion activities for the entire 4000-strong workforce. "This important milestone showcases the commitment of

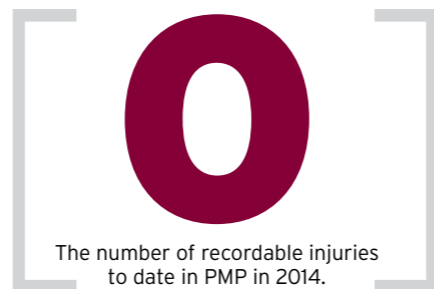
the entire team (QG, TCJV and associated subcontractors) to the QG IIF culture," said Jim Ierubino, PMP Project Manager. "We believe our STOP programme has helped mitigate or avoid entirely numerous potential incidents. At the same time, it has allowed us countless opportunities to recognise good safety behaviours by our workforce."

The PMP is reportedly seeing positive results from this campaign, including the achievement of five consecutive months without any Life Saving Rules violations and experiencing zero recordable injuries to date in 2014.

"These are remarkable achievements, particularly considering the difficult construction conditions within the operating Qatargas 1 plant facilities. At PMP, the priority and value for safe work is paramount," commented Randy Stadler,



**These are remarkable achievements, particularly considering the difficult construction conditions within the operating Qatargas 1 plant facilities." - Randy Stadler, Qatargas Chief SEQ Officer.**



Qatargas Chief SEQ Officer.

The entire PMP workforce was recognised in early March with gifts from the management team.

## THE 15TH 6MMT TECHNICAL MEETING

The 15<sup>th</sup> edition of 6MMT Technical Meeting hosts representatives from Qatargas, Japanese buyers and ship owners.



Members of Qatargas with the representatives of Japanese buyers and ship owners attending the 15th 6MMT Technical Meeting held recently in Japan.

Hosted by Tohoku Electric Power Company, the 15th 6MMT Technical Meeting was held in Sendai, Japan on 18 and 19 February. The meeting is an annual event aimed at exchanging operational and technical information to enhance and improve safe operations at both ends of supplying and receiving LNG between Qatargas and the Qatargas 1 Japanese Long-Term LNG Buyers.

Every year, routine topics such as highlights of shipping operations, buyers' receiving terminals and Qatargas 1 plant operations are reported in this meeting. Exchange of technical information is made bi-yearly covering a number of topics.

This year, the Qatargas delegation was headed by Jassim Darwish, Sales Administration Manager, and included Rashid Al Yahari, Qatargas 1 Asset Manager, Djamel Mokhtefi, Head of Fleet 1 Operations, Ali Sowailah, Senior Environmental Analyst, as well as representatives from the Sales Administration

Department and the Japan Liaison Office.

Representatives from the ship owners also attended the meeting. Informative presentations by Qatargas and the buyers revolved around operational highlights of 2013 and plans for 2014. The 16th 6MMT Technical Meeting is scheduled to be held in February 2015 in Tokyo, and will be hosted by Tokyo Electric Power Company.



**The two-day event included technical discussions and concluded with a tour of Tohoku Electric's Shin-Sendai Thermal Power Station.**

## JBOG PROJECT 132KV POWER SUB-STATION STARTS WITH PERMANENT ENERGISATION

The Jetty Boil-Off Gas (JBOG) project starts receiving 132kV power from the regional electricity network.

The Jetty Boil-Off Gas (JBOG) project 132kV power sub-station built within Qatargas, marked the culmination of two and a half years of work in December 2013, bringing 132kV permanent power from Kahramaa sub-station inside Ras Laffan Industrial City (RLIC), to Ras Laffan Port and the JBOG project site.

With permanent energisation of the sub-station, the project site has permanent power available to bring the 33kV and low voltage systems on line, allowing further commissioning and start-up of associated plant and equipment.

Operations Development Department (ODD) Manager, Saleh Aseel, praised the concerned employees, urging them to work together as a team, and embrace the project motto of "One Team, One Goal".

Qatar Kentz Project Manager, Neil O'Mullane, expressed his pride for successfully delivering the project while maintaining safety conditions throughout two years of work in progress.

# 2.5

The number of years, up to December, 2013 it took to complete the JBOG project 132kV power substation.



Representatives from Qatargas, Qatar Kentz and Kahramaa join the celebration as the Jetty Boil-Off Gas project's sub-station gets energised for the first time with 132kV power supply.

# INTERNAL AUDIT - THE MYTHS AND REALITIES



While an internal audit is usually seen as an intrusion, breaking some common myths about this function can help understand its value and significance for other departments.

**A**s soon as an Internal Audit (IA) notification is received, many departments often get defensive as their staff members begin wondering where they went wrong or if senior management doubts their integrity and contribution to the organisation. There are many misconceptions and myths about IA and its roles in the organisation that therefore need to be clarified.

### IA: Definition, purpose and vision

Simply speaking, IA is an independent, objective assurance and consulting activity designed to add value and improve an organisation's operations. Within Qatargas, its primary purpose is to provide independent and objective assurance for the adequacy and efficacy of internal controls and processes. IA provides the third line of defence in ensuring that

corporate objectives are met.

Our IA vision is to be seen as the leading IA function within the State of Qatar within the next three years, and to be globally recognised as a leading one within the next five years.

As Khalid Khalifa Al Thani, Chief Executive Officer Qatargas, puts it, **"IA is an important function in Qatargas; it has the full support of myself and the senior management team. It is here to protect us, and not work against us. Transparency is one of our core values, and I expect that the business should be inviting IA seeking their added value and advice."**

### Myths about IA

The modern IA practice has been around for less than 100 years. During this time, a number of misperceptions have evolved about its purpose and roles of the auditor in an organisation. However, the reality is quite different if we bust these myths. (see box right)

Hence, internal auditors should be seen as business consultants trying to assist in streamlining other functions and minimising related risks, rather than perceiving them as mere interference or hard-nosed inspectors.

Garry Looker, Chief Operating Officer (COO) Finance, demonstrated his understanding of these realities when he said, **"IA helped us identify improvements within the invoicing process, that led to enhancements in business controls which is directly linked to achieving the company's vision to be premier."**

Articulating similar thoughts, Mats Gjers, COO Operations, said, **"Audit helps me to manage my assets and gives me assurance. I'm grateful for the areas of improvements identified by the audit, because it is supporting me to better manage the business."**

The inputs of IA can lead to significant improvement and hence enhance the image of the units being audited.

Receiving the internal audit notice, then, should be seen as an opportunity for the business to:

- Identify areas of improvement
- Provide assurance that controls are designed and operating effectively
- Provide insights towards increasing value for money and efficiency of operations
- Offer overall help in achieving the organisational goals and objectives.

So, the next time you receive an audit notice, think of how you can maximise the value of your unit through it, how you can use the auditors to help you achieve your own objectives, and start considering them as a friend rather than as an enemy.

## MYTH REALITY

**IT'S BETTER NOT TO SHARE WITH AUDITORS**

Sharing information openly with auditors benefits the business, since it will enable IA to provide the appropriate advice, insights and help in order to identify gaps in the process; recommend areas of improvement, add value, and provide support to the business.

**INTERNAL AUDITORS ARE PLEASED TO FIND MISTAKES AND OPERATE AS A CORPORATE POLICING BODY**

IA follows a risk-based approach, covering the high risk areas, and is focused on added value, insights and advice provided to the business. The best auditors are almost always those who create rapport and trust relationships with the business units. When an auditor's behaviour is accusing or aggressive, they are far more likely to be met with resistance.

**A SIMILAR EXTERNAL AUDIT JUST OCCURRED, WHY ARE WE BEING AUDITED AGAIN?**

IA has the largest coverage and in-depth reviews compared to other types of audits within Qatargas. For instance, external auditors are focused only on the financial aspects, while shareholder audits do not get into the same level of detail.

**AUDITORS TRY TO TEACH ME HOW TO DO MY JOB**

People in the business units will always know more about their own job than any auditor. However, IA performs a cold eye review of things, provides different perspectives, and also gives advice on risks and controls to enhance the business processes.

*For any questions about IA within Qatargas, please contact Hatem Elsafty, Senior IT Auditor at [helsafty@qatargas.com.qa](mailto:helsafty@qatargas.com.qa)*

### Qatargas Assurance Model Business Process, Risk and Controls



In Qatargas, there are three lines of defence assurance in which IA plays a key role.

# RISING STARS FIRST IN ENGINEERING



Hessa Al Nesf becomes the only Qatari citizen to be awarded Incorporated Engineer Status with the Institution of Chemical Engineers, an international governing body of the profession.

In a pioneering achievement, for Qatargas and the State of Qatar itself, Hessa Mohammed Al Nesf, who works as a Corporate Planning Analyst at Qatargas, has become the first Qatari national to be awarded Incorporated Engineer (IEng) status, an internationally recognised qualification established by the Engineering Council of the United Kingdom. The accolade is a prized recognition in the career of any engineer or technologist and an acknowledgement of a high level of professional competence, commitment, skill and experience.



**When I started there were no female processing engineers, I was the only one. And there were no Qatari nationals either."**

**H**essa Al Nesf graduated from Texas A&M University Qatar with a Bachelor of Science degree in Chemical Engineering and in 2009 joined the Qatargas Engineering Department as a Process Engineer under the company's National Graduate Development Programme.

Attaining the IChemE accreditation was not, Hessa says, an early goal since it was only later that she learned such opportunities existed. Initially, Hessa says, she was more preoccupied with simply surviving in the workplace. Being the only woman - "an alien" as she describes it - and learning how to do her job as well as, if not better than her male colleagues, motivated Hessa to try to break stereotypes about her gender and nationality.

"It was extremely hard," Hessa tells *The Pioneer*. "When I started, there were no female process engineers, I was the only one. And there were no Qatari nationals either."

Enter Ibrahim Bawazir, Hessa's first manager and an IChemE-accredited Chartered Engineer, someone Hessa now counts as a role model and inspirational figure. Hessa describes how Ibrahim initially questioned her motivation to fit into the masculine, utilitarian environment of the process plant in Ras Laffan.

"In process engineering you are monitoring everything, even the other engineers, and he asked me if I was really serious about this," reveals Hessa, adding that she also struggled to express to friends, family and society why she, as a young Qatari woman, was pursuing a career in this highly challenging male-dominated field.

Soon Hessa began to realise that she really loved the work and that she was actually using her education for its intended purpose. "It is the real chemical engineering," she says. "If you want to apply what you studied at college, this is where it happens. I think if I had just started in any office I don't think I would have appreciated the work of process engineering in the field, the plant, the operations, the difficulties and all the other things. Now I understand and it adds huge value to my current activities."

Hessa explains how she managed to get through those often-trying early times. She did not worry about what anyone thought of her, or any curious



**If I had just started in any office I don't think I would have appreciated the work of process engineering in the field."**

glances she might have received from those wondering what a female Qatari might be doing in a process plant at Ras Laffan. Instead she focused on doing her job well and by, as Hessa puts it, "building bridges" wherever possible.

Hessa explains how she had to dig deep to persevere, citing a can-do attitude inherited from her other major role model, her mother - a schoolteacher and headmistress - as a major motivating factor. "My mother never stopped when difficult times came or when challenges came in her job," says Hessa. "I feel that I have inherited this challenging characteristic."


Hessa's manager and mentor Ibrahim encouraged her to pursue the IChemE IEng status. She explains how the Learning and Development Department (LND) at Qatargas and IChemE were also highly supportive, which she says was invaluable.

Another thing Hessa did not anticipate was the level of support from within Qatargas, her community and the Qatari media and community when it was announced that she had become the first Qatari to earn this engineering accolade. "It was a shock, but it was nice that people were happy about it, impressed and proud of me, from the refinery, operations, even to headquarters," she smiles.

Hessa feels that this achievement has created an opportunity to influence others and drive career progression within Qatargas through her new role as a Corporate Planning Analyst in the Qatargas Corporate Planning Department. Although she admits

sometimes missing working in the plant, Hessa adds that, "right now is interesting because I am exploring another aspect of the company. Now I see the company as a whole. It is also nice because I am seeing some changes."

On her status as a role model for other young Qataris, boys and girls, Hessa is simultaneously self-effacing and confident. She recalls how she felt lost and out of her depth when she began her career, but advises young people to pace themselves, absorb their surroundings and work with their teams, to eagerly take advice and mentorship from those kind enough to offer it, and to work hard to pursue their goals, never giving up.

"I would like to thank Qatargas for investing in me," closes Hessa, "because when I started I was just Hessa, but through my work and recognition they had the confidence and the trust to invest in me and now I am a fully accepted professional. I sincerely hope I can do more and more to return the investment." 



# QATARGAS EARNS PRESTIGIOUS GLOBAL ENGINEERING ACCOLADE

QATARGAS JOINS RANKS OF COMPANIES WORLDWIDE BY BECOMING THE FIRST QATARI COMPANY TO EARN GOLD CORPORATE PARTNER STATUS AT THE INSTITUTE OF CHEMICAL ENGINEERS.



Representatives from the Institution of Chemical Engineers and Qatargas at a recent ceremony held to celebrate Qatargas as a Gold Corporate Partner of the Institute of Chemical Engineers (IChemE), the first Qatari company to earn this prestigious accolade.

Qatargas has pioneered another first, with the distinction of becoming the first company in Qatar to be recognised as a Gold Corporate Partner of the Institute of Chemical Engineers (IChemE). This is the highest level of Corporate Partnership awarded by the Institute of Chemical Engineers to companies that demonstrate a sustained commitment to the process industries, and in particular to the career development of its employees.

The initial Institute of Chemical Engineers (IChemE) accreditation for Qatargas was awarded in early 2012, for a period lasting two years, and now in reaccreditation, the company has been upgraded to Gold Corporate Partner and extended for a period of four years.

The accreditation is clear validation that Qatargas' training and development programme meets the highest standards and that the company is committed to nurturing qualified staff and allocating significant resources to the professional development of its engineers. Through this accreditation, Qatargas exemplifies its commitment to helping its staff continually develop - through maintaining an accredited company training schemes - participation in technical and local events and professional registration.

Being a Gold Corporate Partner of IChemE also offers Qatargas an advantage in recruiting new talent and retaining qualified chemical engineers. It provides opportunities to influence the education of the next generation of chemical engineers with access to an exclusive industry forums, knowledge and information.

Qatargas acknowledges and recognises the benefits of the IChemE membership for both the company and its staff. By sharing knowledge and expertise with other organisations and interested parties, Qatargas is reaffirming its commitment to investing in professions and professionalism in the wider gas sector.

Qatargas Chief Operating Officer-Engineering and Ventures, Sheikh

Khalid bin Abdulla Al Thani, focused on the importance of this award as a Gold Corporate Partner as it gives Qatargas increased recognition as a top employer in the chemical engineering community. "Through this partnership," he said, "Qatargas seeks to inspire the next generation and help to ensure the pipeline of young chemical engineers keeps flowing and attracts students into considering a career in chemical engineering."

Adnan Al Shaibi, Learning and Development Department Manager, elaborated further, "Our National Graduates under Individual Development Plans (IDPs) as well as those who have successfully reached their established positions will continue to be mentored and provided with development opportunities to reach their full potential," he said. "As Scheme Administrators for promoting and supporting the IChemE registration in Qatargas, we are committed to our employees' investment in their future roles of becoming professionals and acquiring a globally-recognised accreditation."

It is also important to note that much of what has been accomplished with IChemE could not have happened without extensive cooperation within the company. Indeed, the initial 2012 accreditation and the more recent Gold Corporate Partner status was achieved as a result of the vital collaborative interdepartmental efforts within Qatargas between Engineering and Ventures as well as the Learning and Development departments. ☐

## What is IChemE?

The IChemE is the global professional membership organisation for industry specialists who have an interest in and relevant experience in chemical engineering. With around 38,000 members across 120 countries, the Institution of Chemical Engineers is the only organisation to award Chartered Chemical Engineer status.

# FIRST INVESTORS IN PEOPLE GOLD AWARD COMES TO QATAR



Qatargas Learning and Development Department receives Gold accreditation from Investors in People, a first for any company in Qatar.

## 23,000

The number of organisations in the Investors in People network, an international business improvement tool administered by the United Kingdom's Commission for Employment and Skills.

With its Learning and Development (L&D) Department achieving Gold accreditation with Investors in People (IiP) in November, Qatargas has become the only company in Qatar to receive the accolade. The accreditation has also made L&D Department the only one in the global LNG industry to receive this award.

Ghanim Al Kuwari, Qatargas Chief Operating Officer Administration, officially received the Gold Accreditation award from David Dale, Operations Director of IiP during a ceremony held recently at the Qatargas Head Office building in West Bay, Doha. Also in attendance were Adnan Al Shaibi, Qatargas L&D Manager and Abdulaziz Al Mannai, Qatargas Human Resources Manager.

Having gained this award places the Qatargas L&D Department among the top five percent of IiP's accreditations worldwide. The Qatargas L&D Department applied to join IiP International and work towards accreditation for the department with the objective of raising its performance in communication and customer services to the best international standards.

IiP is an international business improvement tool administered by

the United Kingdom's Commission for Employment and Skills, and supported by the Department for Business, Innovation and Skills (BIS). Launched in 1991, its network today has spread across over 70 countries, consisting of over 23,000 organisations representing all sectors.

IiP's accreditation is awarded following a thorough assessment based on a framework developed over 21 years with world's leading businesses. The Investors in People Framework sets out a clear structure and benchmark for improvement to help every team in an organisation. Before being awarded the Gold level, each employee of L&D Department was interviewed over a three-day period, and challenged to give practical examples of how the department communicates, how it demonstrates the Qatargas values and how it contributes to the bottom line return on investment for Qatargas.

Thus, in achieving the award, all staff members of the Qatargas L&D Department were engaged in different aspects of process improvement and equipped with understanding and knowledge to be able to participate fully in the strategic aims of the department. ☐

**Investors in People's accreditation is awarded following a thorough assessment based on a framework developed over 21 years with world's leading businesses."**





Students of Al Khor International School hold participation certificates for the Leading in Action workshop hosted by Qatargas.

# THREE-DAY WORKSHOP ON LEADERSHIP DEVELOPMENT HELD IN DOHA

As part of the Cadre Leadership Development Programme and its continuing outreach to the local community, Qatargas recently organised a leadership development event titled Leading in Action, in cooperation with Al Khor International School (AKIS).

The workshop was the third module of the Cadre programme, a leadership development programme designed by Learning & Development that 19 Qatargas leaders have been engaged in throughout 2013. Held as a three-day residential programme in Doha, the event gathered 19 Qatargas Cadre leaders and 28 AKIS student leaders. By sharing their own leadership lessons, the Qatargas leaders were involved in supporting, guiding and leading the school students. The first module of the Cadre programme was titled 'Leading Self' and the second was 'Leading Others'. 'Leading in Action' was the third and required the Qatargas leaders to design and facilitate their own workshops for the students. During these sessions, they passed on some of the lessons and insights they gained earlier in the year.

By interacting with AKIS students, the Qatargas Cadre leaders were presented

with an opportunity to enhance their leadership skills, competencies and behavioural development by deploying a range of new leadership tools. Speaking about his experience, Head of SEQ Programs, Ashraf Al Hasan said, "The hands-on approach gave me a different way of seeing things. I became more aware of my actions and the impact they have on others."

"It made me realise leadership is not about giving orders but rather creating that environment where people want

# 28

The number of Al Khor International School students selected for the three-day workshop on leadership development.



**The Qatargas leaders gave us a chance to really show what we were capable of, and I believe that they brought out the very best in our abilities."**  
- Matthew Jackson, student, AKIS.

to follow you," he added. For the AKIS students, the event provided a unique opportunity to develop their personal leadership interests and gain awareness of their own leadership potential. "I was told, they thought they were attending the event to teach us, but in many ways we taught them. I realised then, that anybody can be a leader, despite their rank", said Matthew Jackson, a student member from AKIS.

On the evening of the first day of the workshop, the group was presented with a challenge. They were given the task of preparing and delivering a special event for the third evening. The students worked in their House groups (Confucius, Socrates, Avicenna, Curie, Battuta and Shakespeare) supported by the Cadre leaders who were also broken up into the house groups. At the event, both Qatargas and AKIS leaders launched their own leadership commitments and shared the learning gained over three days. Present at the event were students' parents, senior Qatargas managers, and AKIS students and staff.

AKIS is a co-educational international school catering primarily to the children of employees of Qatargas and RasGas.

Praising the event, Dr. Farid Nouri, Education Manager of the school, said, "I am enormously proud of our young talent who have made this Qatargas Cadre Leadership Programme an enormous success for all involved. The programme provides an invaluable platform for young people to learn from the expertise and experience of Qatargas' leadership, while the students' enquiring minds can also teach experienced professionals to see things in a new light.

"I very much look forward to hosting this flagship programme in partnership with Qatargas over the coming years," Nouri concluded.



The three-day workshop held in Doha provided a unique opportunity for the students to develop their personal leadership interests and gain awareness of their own leadership potential.



During the three-day workshop, participants from Qatargas and AKIS indulged in various activities aimed at enhancing their understanding about leadership.

## PARTICIPANTS' FEEDBACK

### Qatargas leaders

**ASHRAF AL HASAN,**  
HEAD OF SEQ PROGRAMS:

I believe the programme's impact will stay with the students for years to come... I'm more self-aware of my strengths and weaknesses, I'm better equipped with coaching and mentoring tools.

**NASSER AL ISSA, QG**  
HEAD OF MAINTENANCE SERVICES:

It reinforced my commitment and understanding by being involved in the discussions and exercises rather than simply giving an order and expecting big results with no involvement.

**ABDULLA AHMAD**  
**ABDULLA, A/OFFSHORE**  
INSTALLATION MANAGER:

The most memorable teaching experience was exercising all techniques we learned through the three modules in our Cadre leadership programme.

### AKIS students

**SHUWAIKH FALEEL:**

It showed me that leadership isn't all about using your power and authority to get certain jobs done, but rather to use your power to empower others.

**MATTHEW JACKSON:**

The Qatargas leaders gave us a chance to really show what we were capable of, and I believe that they brought out the very best in our abilities.

**PATRICIA CORTEZ:**

The skills and techniques I learned can be easily applicable to my role as head girl in our school and it can also be used in a social setting.

**ARIF DEWANTARO:**

My most memorable learning experience was when I learned how to give feedback to other people.

# MANAGING EMPLOYEE LEARNING AND DEVELOPMENT WITH NEWLY INTRODUCED LEARNING SOLUTION

To ensure ongoing development for competent and skilled staff, Qatargas is implementing a Learning Solution (LSO) system to manage, track, and deploy a variety of learning courses within the company.

**R**ecently launched across the company, The Enterprise Resource Planning Learning Solution (LSO) will help in managing, tracking, and deploying a variety of learning courses.

While training management is currently recorded in many of Qatargas businesses using different platforms, according to Adnan Hassan Al Shaibi, Learning and Development (L&D) Manager, said the Learning Solutions will integrate all Qatargas learning processes in one central location. "This will allow administrators to run different reports depending on their needs," he said, "and global administrators will be able to create reports across Qatargas."

As an online Learning Management System (LMS), LSO provides and manages learning delivery methods such as classroom training, e-learning, virtual training and assessments. From a learner's point of view, the system will provide access to information about current training status, and also help identify the right learning content to gain qualifications. By displaying mandatory training courses for the learner on their front-page portal, the system will help them select the suitable scheduled session or launch any e-learning course from one location.

"The project started by identifying current learning management processes,"

Adnan explained the rationale behind the programme to *The Pioneer*. "Then we held joint meetings with IT and departments to gather their requirements [and] we also hired an external SAP consultant to work on the project."

Later, the IT department and business SMEs were also involved in the project to manage the system development according to the requirements based on the blueprint approved by different departments.

### Aligning objectives

A primary function of LSO is to align learning courses and programmes with organisational objectives and plans. It fits into the Talent Management model by providing a means for employees to achieve company goals; align with the company strategy; adhere to regulatory standards, and promote progression within the organisation.

This is accomplished by leveraging the foundational components of Talent Management, making it a powerful, integrated tool that manages employees' learning development, which, Adnan explained, is a distinguishing feature of LSO compared to other systems, "LSO is fully integrated with the Qatargas HR System Management Self-Service portal (MSS) and Employee Self-Service portal (ESS) and will be linked to the whole Talent Management suite in the future," he said, adding, "The automation

between skills gaps and learning and development will help staff, supervisors, heads and managers to easily identify gaps and work towards closing them efficiently,"

Learners will be able to track, via ESS, their progress in attaining the required qualifications for their job role and can act on areas that require development by searching for the right learning content to meet their objectives. On the other hand, managers and supervisors with access to MSS will be able to plan their short- and long-term training for their team using intelligent course assignment options and will be able to track their progress using an instant skills-gap analysis interface.



**A primary function of LSO is to align learning courses and programmes with organisational objectives and plans."**



**14**  
The number of Training Administrators in Operations, Maintenance, SEQ and L&D involved in the Qatargas LSO project.



The customised LSO for Qatargas also features a special delivery method for on-the job training (OJT), incorporated to track learning achieved through assigned work tasks or projects.

### LSO for Qatargas

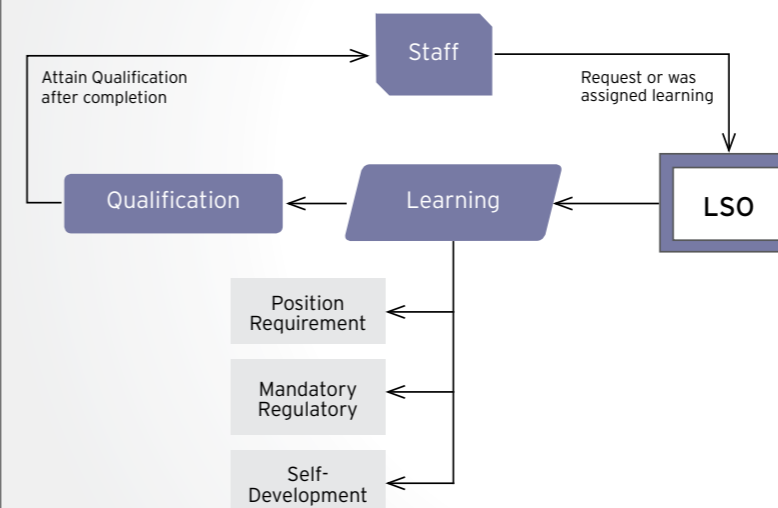
LSO is widely recognised by global e-learning providers for its simple integration with global learning libraries. What it means for Qatargas, then, is efficient and reliable training records, prompt learning requests processing,

compliance with regulatory standards, and further development for competent and skilled staff.

"We involved 14 Training Administrators in Operations, Maintenance, SEQ and L&D in the LSO project from the beginning as they were the departments with the largest number of training records. The feedback from them has been excellent so far," said Adnan. "We anticipate positive feedback from staff once the system is rolled out across Qatargas." Q



## LSO HAS FOUR DIFFERENT ROLES WITHIN QATARGAS:



### Learner Portal

This online tool, accessed through ESS, allows the learner to view current courses, complete, book or search courses, review required training and qualifications, and view training history.

### Manager/Supervisor Portal

This is accessed through the manager's MSS portal enabling them to control the assignment of team members to appropriate courses, nominations for mandatory training, and reporting on progress.

### Instructor Portal

This tool allows instructors to manage course participation and activities and view course information.

### Training Administrator Portal

This allows administrators to perform their day-to-day training activities and manage all courses with Learning Solution. It controls learning processes; manages course offerings, and extends the functionality available in Training and Event Management, as well as training logistics and reporting.

## WOMEN IN ENGINEERING FOCUS OF UNESCO WORKSHOP

Qatargas participates as a sponsor in a joint International Gas Union (IGU)-UNESCO workshop conducted in December in Paris.



Abdulaziz Al Mannai (second from left) attends the International Gas Union (IGU)-UNESCO workshop, representing Qatargas as one of the sponsors of the event.

The workshop, focused on women in engineering in Africa and in the Arab states. Representing Qatargas at the event was Abdulaziz Al Mannai, Qatargas Human Resources Manager and the Deputy Chair for the Task Force 1 (TF1), one of the committees of the International Gas Union (IGU). TF1 is responsible for looking into human capital development as well as current and emerging challenges facing the gas industry. Also present at the event was Jupiter Ramirez, Head of LNG Marketing (QG3). TF1 is in charge of dealing with issues during the IGU's 2012-15 triennium, and delivering a report to be presented at the 2015 World Gas Conference. One of the elements of this report is promoting women in the natural gas industry. The IGU through its Presidency,

Secretariat and TF1 participated in the workshop with the same objective. Qatargas is a member of the IGU and has representatives on several of the IGU committees and taskforces. Q



**TF1 will incorporate material from the workshop in the report to address the issue of attracting more women into the natural gas industry."**

## QATARGAS TEAM recognised for Best Performance at the LNG process-training programme

A team from Qatargas comprising nationals from Onshore Operations is recognised for Best Team Performance at the Liquefied Natural Gas (LNG) process-training programme held recently in Japan.

Oil and gas professionals from 10 countries participated in the three-week training programme organised by Japan Cooperation Center, Petroleum (JCCP). The process-training programme was aimed at promoting technical cooperation and personnel exchanges with the oil-producing countries in the downstream sectors of the oil industry.

As part of the event, the team from Qatargas delivered a presentation on process technology's challenge of addressing the increase of acid gas concentration in the feed gas to Qatargas 1 facilities. This, they said, can be achieved by delivering a new Acid Gas Removal Unit

(AGR4) and a new Sulphur Recovery Unit (SRU4) to remove the expected increase in H2S and CO2 content in order to maintain the current production plateau of Qatargas 1. Q



**The process-training programme was aimed at promoting technical cooperation and personnel exchanges."**



Members of Qatargas, led by Qatargas Onshore Operations Manager Jassim Al Mohannadi, were recognised for Best Team Performance at the Liquefied Natural Gas process-training programme in Japan recently.

## Environmental issues and key industry topics highlighted at IPTC

IPTC delegates attend informative key presentations by principal event sponsor, Qatargas, and tour the Qatargas LNG plant.



At the 7th International Petroleum Technology Conference (IPTC), held at the Qatar National Convention Centre in Doha from January 19 to 22, representatives of Qatargas, which was principal sponsor of the event, presented papers on a wide range of topics that also highlighted Qatargas' environmental initiatives.

Ibrahim Bawazir, Surveillance Division Manager

at Qatargas, presented a paper on Qatargas Flaring Reduction Programme, while Khalifa Ahmed Al Sulaiti, Environmental Affairs Division Manager, discussed Qatargas Greenhouse Gas Management Strategy in his presentation. Bashir Mirza, Jetty Boil-off Gas Recovery Project Manager, spoke about his project which, he said, will assist Qatar in reducing its current flaring from LNG loading operations by more than 90 percent, equating to an annual saving of 600,000 tonnes of gas and 1.5 million tonnes of CO2.

Further presentations by Qatargas employees dealt with the areas of technical innovations and challenges related to offshore gas reservoir and production. Q



**As part of the technical tour of Ras Laffan Industrial City, delegates were able to see and appreciate the technical intricacies and sheer scale of the world's largest LNG production facility."**

## Qatargas reaches out to Qatari students in the UK

Qatargas participates as a sponsor at the seventh edition of the Annual Career Fair held in London.



At the Qatargas booth at the Annual Career Fair held in London, members of the company provided information to students and others about available career paths for Qatari nationals in the country's gas industry.

on February 21 and 22, Qatargas rejoined the Annual Career Fair for Qatari students in the United Kingdom (UK) for the second year as a sponsor of the event.

The delegation of Qatargas to the career fair included Sheikh Khalid bin Abdulla Al Thani, Chief Operating Officer, Engineering and Ventures, Abdulaziz Al Mannai, Human Resources (HR) Manager, Adnan Al Shaibi, Learning and Development (L&D) Manager, and Ali Al Sulaiti, Head of Qatarisation and National Development. Other representatives from the company included members from HR, L&D and the Public Relations Department.

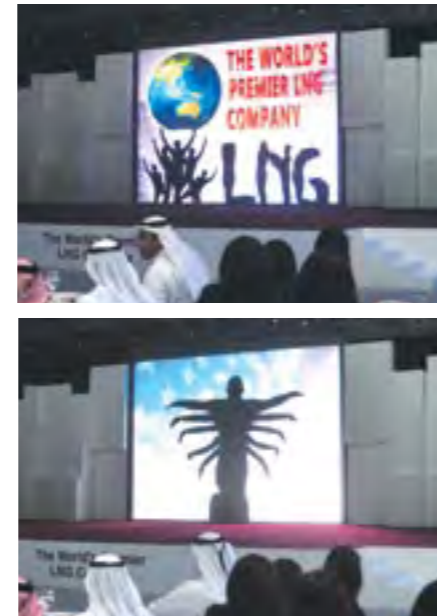
In his presentation, Al Sulaiti highlighted the global significance of the company as the world's largest LNG producer, and its diverse and skilled workforce from more than

60 countries.

As part of its Corporate Social Responsibility (CSR) initiatives, Qatargas offers scholarship opportunities for Qatari nationals at leading international universities and colleges, in Qatar and abroad. Q



**By visiting the Qatargas booth, students attending the fair could receive direct information about career paths available in the organisation, as well as the scholarship and internship programmes."**



# EMPLOYEES ACKNOWLEDGED AT QATARGAS ANNUAL GALA DINNER

Qatargas celebrates its 14th Annual Gala Dinner by rewarding the dedication and hard work of the company's most important assets: its employees.

**H**eld in early February at the Qatar National Convention Centre in Doha, the Qatargas 14th Annual Gala Dinner events were hosted by Qatargas Chief Executive Officer (CEO) Khalid bin Khalifa Al Thani and his Management Leadership Team. The event was attended by all staff members along with their spouses, who in total amounted to more than 4000 people over two nights,

The theme for this year's Gala Dinner was 'Celebrating our Achievements' and the CEO, commenced the evening with a speech acknowledging the efforts of employees, calling them the most important aspect of the company. "At the end of the day, it is through your hard work and commitment that we achieve our greatest milestones. I want to ensure you are all recognised for this," said Al Thani, while also appreciating the support of employees' families by adding, "This Gala Dinner is a way of



**As we move forward in 2014, I know that you will all continue to work as premier contributors and move us further forward towards our new era as the world's premier LNG company."** - Khalid bin Khalifa Al Thani, CEO.

bringing us all together to celebrate our achievements and for us as managers to express our gratitude and appreciation to you for your efforts." The CEO later presented the 'CEO Award of Excellence' to 21 employees in recognition of their outstanding contributions during the year 2013 towards achieving the company's vision. In acknowledging achievements of the past year, in closing, the CEO also expressed his hopes for 2014. "As we move forward in 2014," he said, "I know

**21**  
The number of Qatargas employees allocated a 'CEO Award of Excellence' at the 2014 Qatargas Annual Gala Dinner for their outstanding contribution during the previous year.

that you will all continue to work as premier contributors and continue to move us further forward towards our new era as the world's premier LNG company." Important milestones achieved by Qatargas in 2013 were also highlighted at the event through a 3D animation film. The event was complemented by artistic performances and riveting entertainment, including a shadow show depicting the Qatargas story and its vital link to the development of the State of Qatar. ☉



## Employees and families join **QATARGAS** **SPORTS DAY**

More than 4000 people join sporting activities organised by Qatargas at various locations in Doha, Al Khor Community and the Sealine area.

**M**ore than 2000 Qatargas employees and their families participated in the Sports Day organised by Qatargas on National Sport Day, featuring events and activities held at the gymnasium located in the company's head office building in Doha, Al Gharrafa Sports Club, Doha Golf Club, Al Khor Community, and the company's Winter Camp in the Sealine area.

Qatargas Chief Executive Officer, Khalid bin Khalifa Al Thani, and members of the Management Leadership Team joined the programme at Al Gharrafa Sports Club, one of the major venues of the day. The sporting activities were organised by a committee, chaired by Ghanim Al Kuwari, Qatargas Chief Operating Officer Administration. Assisting the organising team was a group of over 100 volunteers representing various departments of the company. Together, the two committees were

responsible for planning, preparation and execution of the programme.

Al Thani commended both committees for their contribution, and thanked employees and their families for making the event a success with their participation. The CEO also thanked the Board of Directors and officials of Al Gharrafa Sports Club for hosting Qatargas' programme for the third consecutive year.

The programme, which commenced with a photosession of senior management with other employees and their families, featured a two-kilometre walkathon led by the management team. The walk was later followed by other sporting activities such as football, beach volleyball, basketball, table tennis and cricket. A special area for children was also arranged, featuring bouncy castles and slides.

A part of the event was also allocated for healthcare, where visitors had the opportunity to have their blood sugar



levels, blood pressure and body mass index checked at a dedicated health-check area set up by the Qatargas Medical Department. The company's medical and security support services were on stand-by to ensure the safety and security of all participants.

### Successful Beach Soccer Tournament Marks Event Debut

Alkhor club emerged as the inaugural champions of the first Qatargas Beach Soccer Tournament organised by the Qatar Football Association (QFA) at the Qatargas Winter Camp at Sealine.

Held on February 10 and 11, the tournament coincided with Qatar National Sport Day. Al Kharaitiyat claimed second position behind Al Khor, followed by Al Arabi in third position.



Ambi of Al Kharaitiyat, who scored a total of 10 goals in the tournament, received the prize for top scorer. Mohammed Al Ghamdi of Al Arabi was awarded Best Goalkeeper of the tournament, while Ibrahim Al Rumaihi of Al Khor secured the Most Valuable Player award. Group accolades of Best Team and Best Teamw Manager were awarded to Al Rayyan and Jaber Al-Jorohob of Al Khor, respectively. Qatargas also gave winners of these awards special prizes.

Mansour Rashid Al Naimi, Qatargas Public Relations Manager was highly satisfied with the success of the event. "Qatargas' sponsorship of this championship is part of our commitment towards the local community and contribution to the human development," he said, calling it a pillar of the Qatar National Vision 2030." Al-Naimi also

**100**  
The number of volunteers representing various departments of the Qatargas responsible for the planning, preparation and execution of various Sports Day programmes.

thanked Qatar Football Association (QFA) and its management for organising the tournament, saying that Qatargas looks forward to continuing the cooperation with QFA to support and develop football in Qatar.

Khalid Mubarak Al Kuwari, Director of Marketing and Communications of QFA reciprocated similar sentiments on QFA's behalf. "We would like to congratulate Al Khor on winning this important tournament and also congratulate Al Kharaitiyat and Al Arabi for winning second and third place, respectively," he said, adding, "This tournament is key to QFA as our objective is to constantly have a direct impact on the development of beach football."

A large number of Qatargas employees and their families attended the event. Participating teams included Al

Gharafa, Al Shamal, Al Arabi, Al Sadd, Al Rayyan, Al Ahli, Umm Slal, Al Wakrah, Al Khor, Al Shahaniya, Al Kharaitiyat and a team from Qatargas.

Abdullah Al Mohannadi, Chairman of Futsal and the Beach Soccer Committee at QFA congratulated the winners while appreciating the efforts of runners-up and all involved, saying that all teams played extremely well and demonstrated good sportsmanship on the field. "We appreciate Qatargas' support for this tournament and thank them for their continued assistance," said Al Mohannadi. "The tournament was a huge success and was attended by many people and we look forward to organising the second edition next year."



### National Sport Day Celebrated At Al Khor Community


Al Khor Community celebrated Qatar National Sport Day with the launch of 2014 Biggest Winner - a healthy lifestyle and weight loss competition.

Almost 1500 Qatargas, RasGas and Al Khor International School (AKIS) employees and their families participated in a variety of activities held at Al Khor Community as part of Qatar's National Sport Day held on February 11. The proceedings commenced with a five-kilometre walkathon in which around 600 people participated. The programme also featured a healthy breakfast afterwards.


Other sporting activities at the event included mixed martial arts, outdoor aerobics, gym and fitness exercises, athletics and aero-boxing. For the more

competitive, there were team sports tournaments for basketball, football, volleyball, badminton, table tennis, cricket and tennis.

As part of the National Sport Day celebration, Al Khor Community Management also launched '2014 Biggest Winner', a healthy lifestyle and weight loss competition. Gaining popularity over the past four years, the three-month-long Biggest Winner competition is intended to offer residents a chance to gain a new perspective on health, mind, body and soul.

Other highlights of the day included a series of strength tests, such as an arm-wrestling match, and competitions for the highest number of push-ups, sit-ups and bench presses. For the children, a special section was also arranged with sports games and a bouncy castle village. 



 Qatar's National Sports Day held on February 11 at Al Khor Community opened with a five-kilometre walkathon.


“Sporting activities included mixed martial arts, outdoor aerobics, gym and fitness exercises, athletics and aero-boxing, basketball, football, volleyball, badminton, table tennis, cricket and tennis.”

## QATARGAS SUPPORTS CHILDREN'S ICE HOCKEY TOURNAMENT IN QATAR

Qatargas continues its support of young sporting talent at the Qatar Raiders Cup under-9 Ice Hockey Tournament held recently in Doha.

A prizegiving ceremony closed an exciting final day of skating at the Qatar Raiders Cup under-9 Ice Hockey Tournament 2014 at Villaggio Ice Rink recently, with tournament hosts, Qatar Minor Ice Hockey Association (QMIHA) rewarding ecstatic young players from Doha and other Gulf cities for their enthusiastic athletic efforts.



 Mansour Rashid Al Naimi, Qatargas Public Relations Manager, Adel Al Mutlaq, Qatar Ice Hockey Federation General Secretary, and Heather Ryan, Qatar Minor Ice Hockey Association President, with the winners, Qatar Raiders, and their coaches.


Qatargas is the Pearl Sponsor of the QMIHA's 2013 to 2014 ice hockey season and Mansour Rashid Al Naimi, Qatargas Public Relations Manager, handed over gold medals and the trophy to Qatar Raiders, winners of the joint A and B Division. Dubai Sandstorms Red was the runner-up in this division, while Dubai Sandstorms White and Dhahran Saad Falcons finished third and fourth respectively. In the C Division, Abu Dhabi Storms won the title while Al Ain Vipers finished as runners-up. Qatar Raiders Blue and Qatar Raiders White bagged the third and fourth positions respectively in this Division.

At the event Qatargas repeated its commitment to support and popularise evolving sports and games in Qatar, especially the game of ice hockey, as it is part of the company's social investment strategy contributing to the goals of the State of Qatar's National Vision 2030.

The 2013 to 2014 Ice Hockey Season

began on 16 September last year and offered ice hockey for both boys and girls from five years (beginners) right through to under 18s (bantam). Apart from this tournament, QMIHA plans on hosting two more regional ice-hockey tournaments here in Doha, inviting teams from Abu Dhabi, Dubai, Al Ain and Saudi Arabia. 



 Mansour Rashid Al Naimi presenting the winners' trophy and gold medal to Dominik Jerabek, Captain of Qatar Raiders.

“QMIHA plans to host two more regional ice-hockey tournaments in Doha, inviting teams from Abu Dhabi, Dubai, Al Ain and Saudi Arabia.”

# GO GREEN

## Water Conservation


Qatargas is highlighting the need for conserving water, the precious resource, through its Go Green Campaign-Water Conservation

Water has always played an important role in civilisation. The availability of water affects all life and lifestyle supporting activities, such as agriculture, industry, health, and much more.

The problem with water is that there is the same amount now as there was in pre-historic times and no way to make any more of it. Only three percent of the Earth's water is fresh water, and 97 percent of that water is in ice and groundwater. Less than 0.3 percent of all freshwater is accessible on the surface, in rivers and lakes. Fresh water is defined as a precious, valuable and scarce resource that needs to be preserved and wisely managed.

Water scarcity is one of the most pressing environmental and economic issues identified throughout the world.

Qatar has one of the highest rates of water consumption per person in the world at approximately 430 litres per day. However owing to its geographical location, Qatar is among the top water scarce countries in the world. The state has a low rainfall rate (74 millimetres per year) and very limited ground water resources. Water availability depends mainly on costly and energy-intensive desalination of seawater to meet the increasing water demand.

Qatargas acknowledges its responsibility and recognises the crucial role major industry has in water conservation. 

### QATARGAS WATER MANAGEMENT STRATEGY

To ensure sustainable use of water, Qatargas has developed a Water Management Strategy that is centred on the following three pillars:

- Reduce disposal by minimising flow and by segregating water from other wastewater streams.
- Reuse suitable streams to meet irrigation water specifications with minimum treatment.
- Recycle suitable streams to produce either desalinated or polished water with advanced wastewater treatment technologies.

Below are some tips that can be used by everyone to conserve water:

- On average, 38 litres per day of our water footprint (or 14 percent of our indoor use) is lost to leaks. One of the easiest, most effective ways to cut our footprint is by repairing leaky faucets and toilets.
- A low flow showerhead can save 57 L of water during a 10-minute shower.
- It takes about 264 L of water to fill a bathtub, so showers are generally the more water-efficient way to bathe.
- Most front-loading machines are energy- and water-efficient, using just over 75 L a load, while most top-loading machines, unless they are energy-efficient, use 150 L per load.
- Nearly 22 percent of indoor home water use comes from doing laundry. Save water by making sure to adjust the settings on your machine to the proper load size.
- Dishwashing is a relatively small part of our water footprint - less than three percent of indoor use - but there are always ways to conserve. Using a machine is actually more water efficient than hand washing, especially if we run full loads.
- Energy Star dishwashers use about 15 L of water per load, and even standard machines use only about 22 L. Hand washing generally uses about 75 L of water each time.

