Ras Laffan Industrial City

FROM QATAR TO THE WORLD

The Global Clean Energy Hub
H.H. Sheikh Hamad Bin Khalifa Al-Thani
Emir of the State of Qatar

H.H. Sheikh Tamim Bin Hamad Bin Khalifa Al-Thani
Heir Apparent
Foreword by MD

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FOREWORD BY
H.E. MINISTER OF ENERGY AND INDUSTRY
AND CHAIRMAN/MANAGING DIRECTOR,
QATAR PETROLEUM

Through the wisdom and vision of H.H. the Emir,
Sheikh Hamad Bin Khalifa Al-Thani, the State of
Qatar has established itself as one of the preferred
destinations for global investors. With our well-
endowed hydrocarbon resources coupled with
attractive investment policies, excellent infrastructure
and a talented workforce comprising of Qatars and
expatriates, Qatar is proud to be acknowledged as
one of the most competitive countries in the world
providing investors secure and attractive returns on
investments.

Qatar Petroleum is at the forefront of the
transformation of Qatar’s economy by leveraging
our hydrocarbon resources in particular natural gas.
Through partnerships with leading global oil and
gas companies, Qatar Petroleum is proud to have
positioned Qatar as the clear leader in the supply
of clean energy to the world. The processing and
production facilities for this clean energy are all located
in Ras Laffan, a world class industrial city that is wholly
owned and developed by Qatar Petroleum.

Today Qatar supplies vast amounts of gas and
other clean fuels from Ras Laffan City to the
four corners of the world powering the global
economy and lighting up homes and lives.

Our ambitious plan to further transform Qatar’s
economy in line with the Qatar National Vision 2030
offers investors ample opportunities in various sectors
of the economy. In the implementation of these
economic development programs, we look forward to
further building upon our success in forging mutually
beneficial partnerships and we welcome you to explore
the opportunities Qatar offers.

Thank you.

Dr. Mohammed Bin Saleh Al-Sada
Minister of Energy and Industry
Chairman and Managing Director, Qatar Petroleum
FOREWORD BY
DIRECTOR, RAS LAFFAN

Over a short period of time since its inception in 1996, Ras Laffan has been transformed from a barren desert to a world class industrial city facilitating the needs of the most technologically sophisticated natural gas based industries.

We are proud that Ras Laffan City (RLC) is today acknowledged as a leading industrial city meeting global standards.

This achievement could not have been possible without the inspiration provided by H.H. the Emir, Sheikh Hamad Bin Khalifa Al-Thani and the leadership of H.E. Abdullah Bin Hamad Al Atiyah, Deputy Prime Minister and H.E. Dr Mohamed Bin Saleh Al-Sada, Minister of Energy and Industry/Chairman and Managing Director of Qatar Petroleum.

Ras Laffan City provides investors excellent infrastructure, facilities and utilities, and currently hosts world class clean energy production industries including the world’s largest liquefied natural gas (LNG) and gas-to-liquids (GTL) plants built through partnerships between Qatar Petroleum and leading global oil and gas companies. Without a doubt, Ras Laffan City is the global hub for clean energy. Through the Port of Ras Laffan, millions of tons of clean energy are supplied every year powering the global economy and lighting up homes and lives throughout the four corners of the world.

As an industrial city specialising in the production of clean energy, we place particular emphasis on health, safety, security and the management of all aspects of the environment including land, air and marine. Various initiatives in this area have been or are being implemented in Ras Laffan City to ensure the wellbeing of our stakeholders including investors, workforce and the community.

The development of Ras Laffan City is an ongoing journey and we have major plans to further improve the infrastructure, facilities and services to meet the expectations of our stakeholders. Ample opportunities are available for investors in Ras Laffan City, and we welcome you to take advantage of these by establishing your business operations here. Do get in touch with us through the contact details presented in this profile and we will be delighted to discuss with you on how you can be part of the continuing evolution of the Global Hub for Clean Energy!

Thank you.

Abdulaziz J. Al-Muftah
Director, Ras Laffan
Qatar
A Nation Evolving

Having established itself as a major player in the global oil and gas industry, Qatar, is making further strides in the international arena. The moniker Doha Round of negotiations has become a byword for free trade in the world. Al Jazeera international television network provides alternative perspectives to contemporary global issues whilst the Doha Debates provide youth in the Middle East an opportunity to articulate their views on various issues to a global audience.

Qatar has also established itself as the centre of sports in the Middle East and North Africa.

Recurring annual international events held in Qatar include MotoGP, the men’s and women’s ATP tennis tournaments, and the European Golf Tour. Having hosted the Asian Games in 2006 and Asian Cup Football tournament in 2011, winning the right to hold the FIFA World Cup in 2022 is undoubtedly the crowning glory of Qatar’s status as a major sporting centre in the world.

In the world of arts and culture, Qatar’s name resonates far and wide. The Museum of Islamic Arts showcases the artistic heritage of the Muslim world, whilst the Katara Village is the cultural hub of Qatar where the world renowned Tribeca Film Festival is held annually. Through Education City, Qatar’s plans to create a knowledge-based economy are being put to action through several world class universities that are nurturing the next generation of leaders.

**Qatar in Facts and Figures**

- **Area of the State of Qatar**: 11,586 square kilometres
- **Area of Ras Laffan City**: 295 square kilometres
- **Population of the State of Qatar**: 1,553,810
- **Proven reserves of natural gas in the North Field**: 900 trillion cubic feet
- **Proven oil reserves**: 15.2 billion barrels
- **LNG production capacity**: 77 million tonnes

Our City

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Ras Laffan Industrial City

Mandate
Ras Laffan City, wholly owned by Qatar Petroleum, began operations in 1996. It is mandated to provide infrastructure, facilities and services in the City to enable the establishment and functioning of industries to exploit the State of Qatar’s vast gas reserves in the North Field which lies 80 kilometres offshore Ras Laffan.

North Field
The North gas field of Qatar was discovered in 1971 and is currently the world’s largest single non-associated gas field. It spans over 6000 square kilometers and proven reserves are estimated at approximately 900 trillion cubic feet (tcf) – the equivalent of 162 billion barrels of oil.

Location
Ras Laffan is situated along the north east coast of Qatar overlooking the Arabian Gulf. Its strategic location at the centre of the Arabian Gulf, between the Far East and Europe on the international maritime shipping route, enables hydrocarbon products to be efficiently transported to markets all over the world. The City lies 70 kilometres from Doha; it is an hour’s drive on a modern highway that connects it to the commercial capital and the wider world.
RLC’s Master Plan encapsulates the forward-thinking that makes the 295 square kilometre industrial city one of the most advanced in the world.

Revised in 2005, it is a 20-year plan that anticipates and accommodates the future growth of industries in the City in an efficient manner. In place is the provision of additional infrastructure including new marine terminals that would be required to meet the growth of the industries in the City.

**Land**
RLC leases land to industry for its plants and facilities. Land is allocated to industry within earmarked zones. Special consideration is given to meet the particular needs of industries. A range of plot sizes are available and lease tenure ranges from three to 25 years.

**Common Services Corridors**
RLC provides corridors for the construction of pipelines to convey feedstocks, products and utilities both above and below the ground. These corridors include product pipes to carry liquid products, primarily above the ground. Wet utility corridors provide space for utilities such as desalinated water, cooling water and potable water. Power corridors provide space for high voltage and low voltage power cables. High pressure gas corridors are provided for pipelines containing gaseous and mixed phase feed stocks and products. Seawater corridors provide space for seawater pipelines direct to industries and return water pipelines from industries to outfall channels. Telecoms corridors provide space for telecom cables.

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Ras Laffan Support Services Area
The Ras Laffan Support Services Area (RSSA) area is designated for industries that provide support services for oil and gas companies. Located on the west side of the industrial city, the RSSA is over 3 million square metres and offers an excellent investment opportunity for companies that provide support services to oil, gas and petrochemical companies. The RSSA includes residential complexes, a commercial complex, fire station, governmental agency offices, clinics and a light industrial park. The RSSA offers land leases of up to 15-year renewable periods, with plot sizes starting at 6,000 square metres.

Commercial Complex
The RLC commercial complex located on the City’s main avenue provides day-to-day services to the City’s workforce. The complex offers office space and has a total rentable space of 1613 square metres. Current establishments include airlines, travel agents, banks, money exchanges, car rentals and restaurants.

Accommodation
An attractive feature of RLC is the availability of accommodation primarily for staff of contractors. The accommodations are available for short-term or long-term occupation. Furnished accommodation units are available for executives, junior staff and general workers. The accommodation also includes recreational facilities, sports courts and offer catering in a range of cuisines.

Road Networks
A feature of RLC is the meticulous town planning, characterized by a grid-pattern road system that allows ease of accessibility and movement within the City. The dual carriageways that characterize the road network in the City are signalized at intersections and are fully lit. In the near term a radar system to monitor traffic will be implemented.

Security
Ras Laffan City has an elaborate security programme to ensure that all establishments in the industrial city are adequately protected. QP is responsible for protecting the external boundaries and the common areas within the industrial city, setting security standards and coordinating all security activities. Industry is responsible for the security within its own sites and QP provides a set of security guidelines including defining minimum security requirements.
The Port of Ras Laffan has been purpose built to meet the hydrocarbon exports of all the industries in the industrial city. Between 2006 and 2011, the Port was expanded as per the new RLC Master Plan and the Port berth facilities have been increased significantly to cater for the exports of new and expanded industries. The main features of the new Port layout include longer breakwaters, a second navigational access channel, new basins for LNG and liquid berths and a major ship repair & ship building yard.

Facilities in the Port include the following:

**LNG Berths**
The Port of Ras Laffan has six LNG berths of which four are capable of receiving QMax vessels with a cargo capacity of 266,000 cubic metres, the largest of its kind in the industry. The other berths are capable of receiving QFlex and conventional LNG vessels which are 216, 280 cubic metres and 145,000 cubic metres in capacity respectively.

**Liquid Product Berths**
There are six berths that are currently operational. These berths are designed for products such as condensate, LPG, Pygas, GTL and refinery products. They are capable of handling vessels ranging from 160 to 345 metres respectively including VLCCs (very large crude carriers) subject to draft restrictions.

### Vessel Calls Statistics

<table>
<thead>
<tr>
<th>Year</th>
<th>LNG</th>
<th>Products</th>
<th>Sulphur</th>
<th>Cargo</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>350</td>
<td>125</td>
<td>18</td>
<td>128</td>
<td>621</td>
</tr>
<tr>
<td>2006</td>
<td>417</td>
<td>171</td>
<td>18</td>
<td>229</td>
<td>835</td>
</tr>
<tr>
<td>2007</td>
<td>479</td>
<td>238</td>
<td>34</td>
<td>405</td>
<td>1,156</td>
</tr>
<tr>
<td>2008</td>
<td>500</td>
<td>333</td>
<td>24</td>
<td>392</td>
<td>1,249</td>
</tr>
<tr>
<td>2009</td>
<td>580</td>
<td>420</td>
<td>27</td>
<td>279</td>
<td>1,306</td>
</tr>
<tr>
<td>2010</td>
<td>817</td>
<td>613</td>
<td>45</td>
<td>79</td>
<td>1,554</td>
</tr>
<tr>
<td>Est. 2011</td>
<td>1,008</td>
<td>767</td>
<td>61</td>
<td>55</td>
<td>1,891</td>
</tr>
</tbody>
</table>

Covering an area of 56 square kilometres, it is currently one of the largest hydrocarbons export ports in the world.
Sulphur Berth
The Port has one sulphur berth with the capability of handling vessels of up to 60,000 tonne displacement.

Dry Cargo Berths
Six berths are dedicated for dry cargo of which two offer RoRo facilities.

Offshore Support Vessel Berths
The Port has fourteen berths with facilities for providing bunkers and fresh water. The berths are used for supply and support vessels servicing the offshore exploration and production activities.

Offshore SPM’s
(Single Point Moorings)
Available are 2 SPM’s located about 54 kilometres away from the berths. These SPMs can accommodate vessels ranging from 85,000 – 320,000 DWT.

Seafarers Centre
The International Seafarers Centre has opened its doors and is being well supported by visiting seafarers who are now able to relax and unwind away from their ship for a few hours. At the centre, seamen will be able to transfer money, enjoy a coffee and a snack at the coffee shop, watch television, read in the library, exercise in the gym or out on the volley ball and basketball courts, or find some peace and solitude in the prayer room, whilst overnight hotel facilities are available if required.

Ehama bin Jaber Al Jalalma Shipyard
The ultra-modern 110-hectare Shipyard established Ras Laffan as a world leader in ship maintenance, repair and construction. The multi billion project is funded by QP-RLC and leased to Nakilat-Keppel Offshore & Marine (N-KOM) to manage and operate the ship repair and construction sections. Key features of the Shipyard include two large dry docks (400m long x 80m wide; and 360m long x 66m wide), two floating dry docks, a massive Construction Hall, Re-Fit Hall, Warehouse and Administration buildings.

Another joint venture between Nakilat and Damen (NDSQ) has been licensed to manage and operate the construction of ships up to 120 meters long. The massive ship construction hall (270m long x 65m wide x 45m high) is capable of building four vessels simultaneously, completely undercover.

Two further phases are now under development to increase the capability of the shipyard. The first is a project for repair of small vessels up to 200 metres long. The facility will include ‘wet’ and onshore berths, craneage and hydrolift facilities.

The second project is a facility to provide outfitting, painting, re-fit and upgrade of the largest super-yachts now available in the market. This facility will then become the yard of choice for this market in the Arabian Gulf.
Utilities – Electricity, Water and Telecommunications
RLC provides cooling water, desalinated water, potable water and fire-fighting water to industries throughout the City. If required, RLC can provide telecommunications and power as well.

Common Seawater Facility
Through the Common Seawater Facility (CSF), the largest and most sophisticated in the world, RLC supplies seawater for industries.

This seawater is used by industries as cooling water and raw water for producing desalinated and potable water. The CSF is vital for the uninterrupted operation of all industries located in the City and is built with 100% availability. The Common Seawater Facility has a current capacity of 933 cubic metres per hour. It will be capable of delivering 1,166,000 cubic metres of seawater per hour upon further expansion.

Waste Water Treatment
RLC operates and maintains a waste water treatment plant. The plant is used to treat sewage generated in the City and through a strategy of sustainable environmental management the treated water is reused for irrigating landscaping within the City’s green spaces.

Non-Hazardous Waste Management
RLC operates a non-hazardous Waste Management Facility (WMF) to manage non-hazardous waste. The WMF consists of three units to handle various types of acceptable waste:

- Lined Landfills Unit: Designed to handle operational waste like catalysts and mole sieves.
- Land Treatment Unit: Designed to handle oily and chemically contaminated soil, liquid digested sewage sludge, wood chips and tree trimmings.
- Inert Waste Pile Unit: Designed for disposal of construction and demolition wastes, like concrete pieces, bricks, blocks and asphalt.

Marine Waste Facility
A marine waste reception facility to receive oily waste from ships will be completed by 2014. This facility will meet international marine pollution (MARPOL) standards and will enable ships to dispose of their oily waste safely.

Temporary Chemicals Storage Facility
A chemical storage facility built to provide temporary storage of waste from offshore is available.
**Medical**

Ras Laffan Medical Services (RLMS) is a regional division of QP Medical Services (QPMS) operating in Ras Laffan City. RLMS serves the medical needs of QP staff and contractors by providing primary care and emergency services at the Al Madina Health Centre (AMHC) and Ras Laffan Medical Centre (RLMC).

**Emergency Response Services**

RLC provides all emergency response services to industries. The objective of the Emergency Response Services is to deliver an effective, efficient and coordinated response to incidents thereby reducing injuries, loss of life, and the destruction of property as well as the avoidance of harmful effects on the environment. The emergency response team maintains a high level of response capability for all types of emergencies including marine and land-based incidents.

With the rapid expansion and growth of the industrial city, a new emergency response complex comprising an Emergency Operations Centre (EOC) and an Emergency Communications Centre (ECC) is also being developed.

**Fire Services**

The RLC Fire Services provides fire and rescue services from five strategically located fire stations within the City. RLC boasts the best fire fighting and emergency response equipment, geared to meet the unique needs of the industrial city.

**Catering**

Amwaj, a QP company meets the catering needs in the City. The caterer is equipped to cater for large and small groups, offering a cuisine that includes Western, Arabian, Mediterranean and Asian preferences.

**e-Services**

Applications for facilities, services, utilities and permits are handled electronically through www.raslaffan.qp.qa. With these e-services, the processing of applications are done seamlessly thus enabling quick turnaround times. The range of e-Services is being gradually expanded.
Qatar Petroleum (QP) and the Ministry of Interior have established the Ras Laffan Emergency & Safety College (RLESC), the premier emergency and safety college in the Middle East.

Texas Engineering Extension Service (TEEX), a member of the Texas A&M University System is the training provider. TEEX is internationally acclaimed in the area of advanced practical emergency and safety training.

The primary aim of RLESC is to train emergency and safety professionals in the following functional areas: oil, gas and petrochemical industries, marine, civil aviation, civil defence, industrial fire fighting, emergency medical services, hazardous materials, search and rescue, health and safety, emergency response and driver training.

RLESC offers courses that are accredited by the National Board on Fire Service Professional Qualifications (ProBoard). ProBoard is an internationally recognized professional certification entity for fire fighting curriculum. TEEX is a ProBoard accredited agency.

The American Council on Education's College Credit Recommendation Service (ACE CREDIT) has evaluated and recommended college credit for various TEEX/RLESC courses.
The development and operation of all businesses in Ras Laffan City are governed by a set of regulations, procedures and guidelines which are incorporated within the land lease agreement between QP and industry.

The purpose of these regulations, procedures and guidelines is to ensure the health and safety of all stakeholders and minimize the impact on the environment.

These regulations, procedures and guidelines encompass the following key areas:

**Health**
RLC is committed to safeguarding the health of all stakeholders in the city. An integral part of this strategy is to eliminate risk of illness through hazards in the work place. This programme includes work ergonomics, air quality monitoring and noise reduction.

**Safety**
RLC specifies essential safety requirements through procedures, standards and guidelines to all industries and contractors in the City to ensure that work activities are carried out in a manner that does not present a risk to the health and safety of any person who may be affected by their activities.

**Environment**
RLC seeks to ensure that all industrial activities in the City do not adversely impact upon the environment and this includes land, water, air and the neighbouring marine areas. This is achieved through environmental impact studies and post commissioning surveillance programmes.

**Quality**
RLC’s operations are governed and certified by several international quality standards and these include ISO 9001, ISO 14001 and OHSAS 18001.
Community Outreach Program
RLC and major industries have implemented a joint Community Outreach Program (COP) to support the community in the Northern area of Qatar. The COP aims to implement initiatives targeted to address specific social and environmental needs in the community. The major initiatives currently being executed include road safety training and environmental awareness.

Sustainable Development Initiatives
In managing the development and operations of the industrial city, RLC seeks to minimize the impact on the environment by inter alia giving emphasis to the preservation of the natural habitats.

Headlining the conservation programmes is the marine turtle conservation initiative. RLC diligently monitors turtle breeding grounds to ensure that they are not disturbed especially during the nesting season thereby ensuring the survival of this indigenous species. Other programmes in place are mangrove conservation, reef cultivation, and restoration of sea grass. Additionally, breeding programmes to grow the population of the gazelle, houbara and ostrich are also in place. A mango plantation which is successfully fruiting is the cornerstone of a greenbelt in the conservation area.

Laffan Environment Society
The Laffan Environmental Society (LES) has been established jointly by RLC and industries to monitor and provide services in the area of environmental management.

Its primary services include the operation and maintenance of the ambient air quality monitoring stations, conducting marine ecological surveys and handling the related data acquisition systems. The LES’s objectives are to promote open communication and exchange ideas amongst members and to maintain outreach with neighbouring communities on environmental issues and social development.

The members of the Laffan Environmental Society presently are: Qatar Petroleum, Qatargas Operating Company Ltd, ORYX GTL Company Ltd, ExxonMobil Qatar Inc., Ras Laffan Power Company Ltd, Qatar Power Company, Dolphin Energy Ltd, Qatar Shell GTL Ltd and Ras Laffan Olefins Company Ltd.
Awards


Ras Laffan Port won the Lloyd’s List Award of Infrastructure in 2009 for providing the most suitable infrastructure to promote maritime growth and operational excellence.
INDUSTRIES IN RLC

Ras Laffan Industrial City accommodates the prominent gas based and other related industries:

- Total LNG Production: 77 mtpa
- Liquefied Natural Gas (LNG)
- Gas-to-Liquids (GTL)
- Gas Processing
- Refined Condensate
- Petrochemicals
- Helium
- Solar
- Sulfur
- Power Plants

### Liquefied Natural Gas (LNG)

<table>
<thead>
<tr>
<th>Company</th>
<th>Production</th>
<th>Capacity</th>
<th>Owners</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qatargas 1</td>
<td>Trains 1, 2 &amp; 3</td>
<td>10 mtpa</td>
<td>Qatar Petroleum (65%) ExxonMobil (10%) Mabrook (7%) Middle East (7%)</td>
<td>Operational since 1996</td>
</tr>
<tr>
<td>Qatargas 2</td>
<td>Train 4</td>
<td>7.8 mtpa</td>
<td>Qatar Petroleum (70%) ExxonMobil (30%)</td>
<td>Operational since 2009</td>
</tr>
<tr>
<td>Qatargas 3</td>
<td>Train 6</td>
<td>7.8 mtpa</td>
<td>Qatar Petroleum (68.5%) ExxonMobil (31.5%)</td>
<td>Operational since 2010</td>
</tr>
<tr>
<td>Qatargas 4</td>
<td>Train 7</td>
<td>7.8 mtpa</td>
<td>Qatar Petroleum (70%) Royal Dutch Shell (30%)</td>
<td>Operational since 2011</td>
</tr>
<tr>
<td>RL (I)</td>
<td></td>
<td>6.6 mtpa</td>
<td>Qatar Petroleum (65%) ExxonMobil RasGas Inc. Kora Liquefied Japan</td>
<td>Operational since 1999</td>
</tr>
<tr>
<td>RL (II)</td>
<td></td>
<td>14.1 mtpa</td>
<td>Qatar Petroleum (65%) ExxonMobil RasGas Inc.</td>
<td>Train 3 since 2004 Phase 4 since 2005</td>
</tr>
<tr>
<td>RL (III)</td>
<td>Train 6 &amp; 7</td>
<td>16.6 mtpa</td>
<td>Qatar Petroleum RasGas 3 Ltd ExxonMobil Ras Laffan (I) Ltd</td>
<td>Train 6 since 2009 Phase 7 since 2010</td>
</tr>
</tbody>
</table>

Gas-to-Liquids (GTL)

- ORYX CTL: Diesel & Naphtha 34,000 bpd Qatar Petroleum (51%) Sasol (49%) | Operational since 2007 |
- Pearl CTL: Two Trains Casual, Kerosene, Naphtha, Base Oil & Paraffins 140,000 bpd of CTL Products & 120,000 bpd of Condensate & Natural Gas Liquids | Qatar Petroleum Shell | Operational Phase II: Mid 2011 Phase II: Mid 2012 |

Gas Processing

- Al Khaleej Gas [I]: Lean gas to domestic market 750 mmscfd | ExxonMobil | Operational since Nov. 2005 |
- Al Khaleej Gas [II]: Lean gas to domestic market 1250 mmscfd | ExxonMobil | Operational since Dec. 2009 |
- Dolphin Energy Limited: Exporting lean gas to neighboring countries (UAE & Oman) by subsea pipeline 2000 mmscfd | Mubadala Development Co. (57%) Occidental Petroleum (43%) | Operational since 2007 |
- Barzan: Lean gas to domestic market 1400 mmscfd Qatar Petroleum (93%) | ExxonMobil (7%) | Expected Operation by 2014 |

Refined Condensate

- Laffan Refinery: Naphtha, Keros (Jet Fuel), Gasoil (Diesel), LPG | Feedstock 146,000 bpd Phase 2: 140,000 bpd | Qatar Petroleum (51%) ExxonMobil (10%) | Operational since 2009 Phase 2: Expected operation by 2016 |

Petrochemicals

- Ras Laffan Olefins Company (RLOC): Ethylene 135 km pipeline from Ras Laffan to Mesaieed 1.3 mtpa | Qatar (83.31%), Qatarfiz Company Ltd (45.69%) | Qatar Petroleum (1%) | Operational since 2010 (Operated by Q-chimp) |

Helium

- Ras Laffan Helium: 600 mscfpa (10 % of the world’s total helium production) | Qatar Petroleum (10%) L (I) Qatargas 1 | Operational since 2005 (Managed & Operated by RasGas Company Ltd.) |
- Qatar Helium 2: 1900 mscfpa (rise to 25 % of the world’s total helium production) | Qatar Petroleum (10%) L (II) Qatargas 2 | Operational since 2013 (Managed & Operated by RasGas Company Ltd.) |

Solar

- Qatar Solar Technologies (QSTec): Polysilicon 3600 Tonnes per Annum | Qatar Foundation (70%) SolarWorld AG (26%) | Qatar Development Bank (1%) | Expected operation by 2013 |

Sulfur

- Common Sulfur Project: Sulfur 12,000 metric tons/day | Qatar Petroleum | Operational since 2010 (Operated by Q-chimp) |

Power Plants

- Ras Laffan Power Company: Power 760 MW | Qatar Electricity & Water Co. (QEW Co) (55%) Gulf Investment Corporation (15%) | Operational since 2003 |
- Al Khaleej Gas [I]: Power 1025 MW | Qatar Electricity & Water Co. (QEW Co) (60%) Chubu Electric Power (5%) | Operational since May 2006 Full capacity: June 2008 |
- Al Khaleej Gas [II]: Power 2730 MW | Qatar Petroleum (15%) Qatar Electricity & Water Co. (QEW Co) (45%) Mabrook (10%) CDF Suza (20%) Chubu Electric Power (5%) | Operational since 2010 (Operated by Q-chimp) |

**Additional Information:**

- www.shell.com.qa
- www.oryxgtl.com.qa
- www.rasgas.com
- www.qatargas.com.qa
- www.qatarpower.net
- www.dolphinenergy.com
- www.rloc.com.qa
- www.qatargas.com.qa
- www.qatargas.com.qa
- www.qewc.com
RLC prides itself as the most sophisticated natural gas based industrial city, with well laid plans that factor in growth in the coming years, providing plans for future infrastructure including additional marine terminals to meet the exporting and importing needs of industries.
Ras Laffan Master Plan

Master plan to anticipate and accommodate future growth of gas based industries.

Planning for the provision of infrastructure and marine terminals required to meet the importing and exporting needs of industries.

Ras Laffan area: 239 Sq. km
Port area: 56 Sq. km
Total Ras Laffan area (Including port): 295 Sq. km

Qatargas
RasGas
Al Khaleej Gas (AKG)
Ras Laffan Helium
DRYX GTL
Pearl GTL
Barzan
Dolphin Energy
Laffan Refinery
Ras Laffan Olefins Company (RLDC)
Tank Farms
Qatar Solar Technologies (QSTec)
Ras Laffan Power Company (RLPC)
Q-Power
Ras Girgas Power Company
Waste Management Facility
Emergency & Safety College
Accommodation Facilities
RLC Multipurpose Administration Complex
Support Services Area
Existing Berths
Qatar Petroleum and its partners supply millions of tonnes of clean energy through the Port of Ras Laffan to the world, improving lives and livelihoods.
Clean Energy... From Qatar to the World
The Global Clean Energy Hub