



AN INTEGRATED COMMUNITY OPTIMISING NATURAL GAS UTILIZATION



GASCITIES
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Natural Gas Utilization

CONTENTS

WHAT MAKES GASCITIES UNIQUE	3
THE PROCESS	5
ZONING	6
INTEGRATED TOWNSHIP	7
Work	8
Live	9
Learn	10
Play	11
SINGLE WINDOW	12
FACILITIES	13
INFRASTRUCTURE	14
BEHIND THE SCENES	15
Board of Directors	16
Sr. Management	18



WHAT MAKES GASCITIES UNIQUE?

Gas Cities are self sustaining, fully integrated industrial cities aimed at the systematic & comprehensive utilization of natural gas as fuel and feedstock. The Gas City concept pioneers the principle of strategically clustering a variety of gas-intensive industries in a single location to complement all potential and inherent synergies, in order to maximize the benefits of natural gas resources beyond what is allowed through gas exports.

As a self sustaining synergistic industrial city, Gas Cities offer fully comprehensive industrial and business services. Highly developed infrastructure ensures smooth logistics, while service facilities like

banks, financial centers, insurance services, engineering and business consultancy and other related services offer increased in-house flexibility and inter-cluster synergies.

Strategically located across the Middle East, North Africa and South Asia, Gas Cities enable industrial products from the cities to reach local, regional and international markets effectively, efficiently and economically. Supporting entrepreneurial & corporate growth initiatives, Gas Cities offer special investor rights (Free Zone wherever applicable) along with their world class, highly advanced industrial environments.

GASCITIES: DRIVING THE LOCAL ECONOMY

In their host countries, Gas Cities will promote economic activity in multiple ways. By bringing huge foreign direct investments into the local markets the cities will catalyze market growth both directly and indirectly. This growth cascades across various business sectors, thus initializing more investment driven developments.

As Gas Cities utilize inter-cluster synergies, it will bring together all high-tech activities related to natural gas such as electricity, water resources, petrochemicals, medium & heavy industries,

logistics and general trade under one roof. This will enable significant economies of scale and enhanced market competency.

By promoting co-operation in research and development, technology and market analysis, investors can mutually benefit by sharing a common Gas City platform. Gas Cities will also offer real estate investment opportunities such as construction of exhibition halls, hotels, shopping malls, offices, hospitals, and schools.





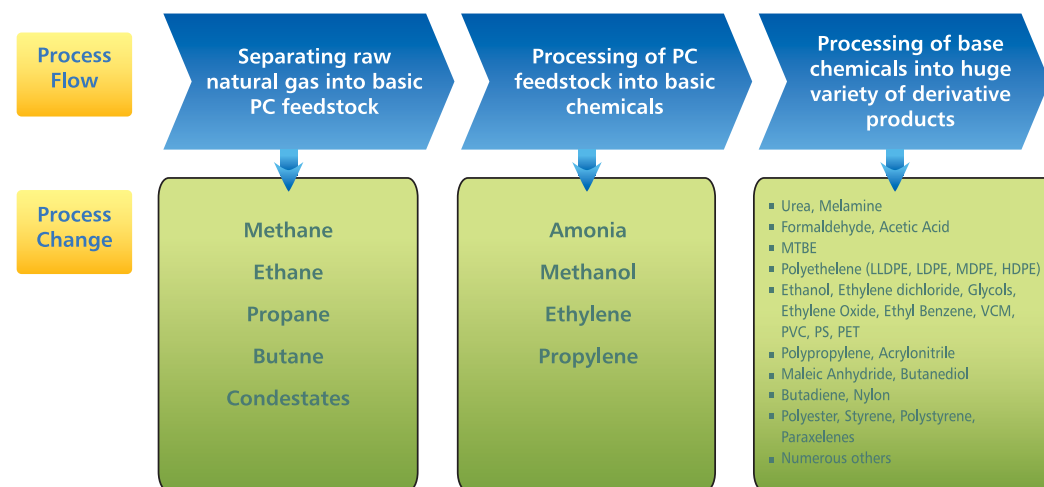
DEEP INTO THE HEART OF GAS CITIES: THE PROCESS

Natural gas produced from gas fields is treated to remove impurities and separated into two streams: The main Methane rich stream, which is used mainly as fuel for power generation as well as feedstock to some industries, and the heavier components stream which is used as petrochemical feedstock. Each of the two streams is further treated and processed to recover the hydrocarbon components: Methane, Ethane, Propane, Butanes and liquid condensates, as required for feedstocks to the various petrochemical and other industrial plants.

Methane is used to produce Ammonia & Methanol which are further processed to produce fertilizers and other products, while Ethane is used as a feedstock to steam crackers to produce ethylene and propylene and other products. Propane and other heavier hydrocarbons are also utilized as feedstock to produce base chemicals and various secondary derivatives.

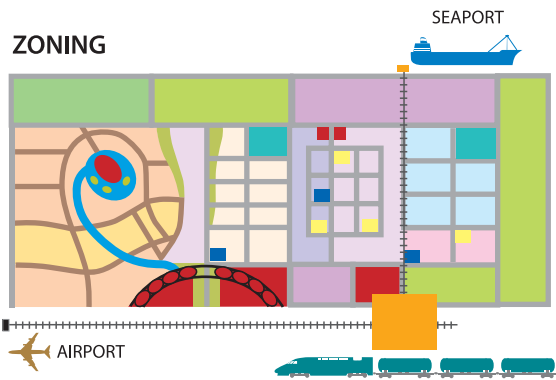
These base chemicals and secondary derivatives thus obtained are further processed into a large variety of commercially important products, finding applications in various industries such as fertilizers, pharmaceuticals, automotive, textiles, food & beverage, construction, electronics & IT, and many others.

“In Gascities natural gas is treated, processed and converted into commercially viable end products.”





ZONING



LEGENDS

Primary Process Plants	Dormitory	Public Parks
Petrochemical Park	R&D/Educational Zone	Recreation/Golf Course
Heavy Engineering Park	Low Density Residential	Water Bodies
Manufacturing Zone	Medium Density Residential	Railway Track
Business Park Zone	High Density Residential	Railway Station
Logistic Zone	Amenities Centre	
Commercial Zone	Power Plants & Utilities Hub	

ZONING: BECAUSE LOCATION IS EVERYTHING

Gas Cities are integrated self-sustaining natural gas based industrial cities. Along with well planned residential areas, various processing, business and industrial units will coexist in an environmentally responsible manner. Efficient zoning will provide the much required environmental buffers between these diverse regions, making Gas Cities an attractive place to work and live in. Zoning is most crucial in minimizing any industrial related pollution effects on the environment.

Through zoning, special heavy industries are placed well away from medium and light industries and from Residential Zones. Logistics Zones, Business Parks and Green Zones act as Transition Zones (buffers) in between Industrial and Residential Zones.

Residential Zones: Include various residential apartments and housing dwellings and supporting service facilities such as hospitals, gymnasiums and parks.

Processing Zones: Incorporate heavy industries such as Cement, Aluminum Smelters, Iron and Steel Mills, Base Chemicals, and Petrochemical Industries.

Industrial/Business/ Education Park: Comprises Medium and Small scale industries such as Construction Materials, Automotive Assembly & Component manufacturing, Electronics & IT, Food & Beverage, Pharmaceuticals, as well as Business Centers, Research and Development and Educational facilities.

INTEGRATED TOWNSHIP: SELF SUSTAINING & COMPREHENSIVE IN EVERY SENSE.

Gas Cities will combine the true essence of community living and the benefits of inter-cluster synergies. That is, the cities will be conceptualized to provide all the required amenities to live, work, learn, and play, making them integrated natural gas based cities specially designed to meet the ever growing industrial & residential needs in their host countries.

Gas cities are conceptualized around the Work-Live-Learn-Play theme, making them unique & self sustaining"





WORK-LIVE-LEARN-PLAY BECAUSE WE MEAN BUSINESS

Like modern well equipped gas-based industrial cities, Gas Cities will provide a state-of-the-art working environment to support high end business/industrial needs. Being modern hubs offering 5 star amenities and facilities, Gas Cities will enable business visitors to interact at ease and act as a central contact point for integration.

These include,

1. An iconic development housing the various business centers
2. 5-star amenities and facilities
3. High-tech offices ensuring high-end ambience and top notch facilities
4. State-of-the-art communication equipment and a variety of features planned to optimize energy outputs
5. Well developed internal and external road networks
6. Well planned modern rail network
7. Easy access to all support service facilities, such as banks, town centers, and schools.
8. An Expo Centre ideal for all types of business events and promotions
9. Media Centers offering world class facilities to hold international conferences, exhibitions and corporate functions

WORK-LIVE-LEARN-PLAY

MAKE THOSE MOMENTS TRULY EXCEPTIONAL...

In Gas Cities work and life will flow together. Everything that is needed to support an urban lifestyle is hence incorporated in the grand city scheme. A well planned residential zone is envisioned to capture all the fun and frolic of city life. Moreover, to improve the quality of life, residential zones will be environmentally buffered and as a rule will be always located furthest from the processing zones.

The facilities include,

1. Well conceptualized and maintained landscaped areas
2. A modern hospital along with other ideally situated primary medical centers

3. Two very well equipped town centers
4. Public amenities such as supermarkets, restaurants, coffee outlets, parks, gardens and walkways
5. 5 Star hotel facilities
6. Well connected road networks connecting to other parts of the city
7. Places of worship





WORK-LIVE-LEARN-PLAY BENEFITING FROM KNOWLEDGE TRANSFER...

Gas Cities will host a variety of educational and in-situ training institutions in collaboration with leading universities and research & development organizations to provide world-class industry related training and in-situ skill empowerment and

exposure. R&D facilities will help professionals to familiarize themselves with and conduct research on the emerging and latest oil and gas and other industry trends and technologies.

WORK-LIVE-LEARN-PLAY BECAUSE A BALANCED LIFESTYLE IS CRUCIAL...

Life is not complete without its share of leisure and play. A variety of facilities will be available in Gas Cities to make this possible. The City's urban lifestyle will be well enhanced by a golf course designed by internationally renowned architects. Moreover, sports enthusiasts can engage in a host of outdoor and indoor sports and activities at the City's modern Sports Centre.

1. Golf Course
2. Field Game Facilities
3. Sports Centre





SINGLE WINDOW

For smoother operational processes and to reduce time delays, Gas Cities follow a single window system whereby clients can avail a wide range of licensing and other administrative services under a single roof. By this single point, multi process approach, investors can easily complete all the procedural formalities required to acquire natural gas as feedstock, register commercial or industrial sites and source utilities, including electric power, and water.

These services include,

1. Licensing & Registration

2. Leasing
3. Immigration services
4. Roads & Transport related services
5. Telecommunications services
6. Electricity & Water Authority services
7. Postal Authority services
8. Security

FACILITIES: OFFERING WORLD-CLASS SUPPORT

Gas Cities adopt the highest standards in quality and safety in all its facilities and services. Its unhindered commitment to the economic growth of its host countries is ideally demonstrated in its "Zero Defect" ideology. Through implementing this ideology, all facilities come with superior product quality, easy accessibility and the support of exceptional customer service.

These facilities include,

1. Provision and distribution of power
2. Distribution of industrial gases and utilities such as Nitrogen and Oxygen

3. Provision and distribution of industrial water through dedicated pipelines
4. Treatment and distribution of water
5. Ready-to-start already built industry facilities
6. A well developed electrical distribution system
7. Wastewater Treatment
8. De-sludging
9. Waste Processing & Recycling
10. Fire protection & rescue
11. Safety Regulations
12. Security Enforcement
13. Emergency Response
14. Environmental Conservation
15. Occupational Hygiene





INFRASTRUCTURE: CONNECTIVITY IS THE LIFE BLOOD OF A COMMUNITY

Success of any community depends exponentially on its efficient infrastructure. Gas Cities will feature an advanced communication network equipped to handle the infrastructural pressures of a well developed mega industrial city. Proximity to regional airports and a seaport and/or express roads and railway will make the cities highly accessible to international markets. All clusters will be interconnected strategically by rationally conceptualized roads and railways, ensuring smooth flow of personnel and materials.

Select services include,

1. Labor Accommodation
2. Well developed road & rail network
3. Warehousing Facilities
4. Product assembly and incursion
5. Labeling/Bar code technology
6. Product inspection
7. Product refurbishing
8. Consolidation and de-consolidation of shipments

9. Slip sheet or clamp truck services for paper handling
10. Containerizing
11. Advanced telecommunication facilities
12. High speed data communication facilities

BEHIND THE SCENES



Gas Cities', are natural gas based industrial cities that are being developed across the Middle East, North Africa and South Asia (MENASA) region by Gas Cities LLC, a joint venture company that has been established by Crescent Petroleum and Dana Gas.

"The partners in this venture-Crescent Petroleum and Dana Gas PJSC-have extensive expertise in all aspects pertaining to Oil & Gas industry."



Crescent Petroleum commenced its activities in the early 1970's and was the first regional, independent, privately-owned Middle East petroleum company to Arab Emirates, Egypt, Pakistan and Yemen. They have made their presence in the production and sale of crude oil, petroleum products and natural gas. The company is headquartered in Sharjah, UAE, with international offices strategically located in the UK, Iraq and Iran and affiliate offices in Canada and Egypt.



Dana Gas is the first and largest regional private-sector natural gas company in the Middle East, established with more than 300 distinguished founder shareholders from across the Gulf Cooperation Council (GCC) region, and some 400,000 investors from over 100 nationalities worldwide. Headquartered in Sharjah, UAE, Dana Gas already possesses a wide network of offices in Saudi Arabia, Kurdistan Region – Iraq, Egypt, the UK, and Canada, with further offices opening throughout the Middle East.

BOARD OF DIRECTORS



BADR JAFAR
Chairman

Mr. Badr Jafar is also the Executive Director of the parent company Crescent Petroleum and is dynamically involved in business development at Dana Gas PJSC. He graduated from Cambridge University with a Masters Degree in Engineering and a Business Degree from the Judge Business School of Cambridge University. He is also active in a variety of other industries regionally and internationally as,

Director of Gama Aviation, [Aviation]

Board Member of Gulfair Ltd [Shipping]

Board Member of Enshaa PSC [Real Estate]

Board Member of Growthgate Capital [Private Equity]

He is the Founder and CEO of Collo Ltd (UK) and Persicus Inc (USA). He is also an active member of the Young Presidents' Organization.



RASHID SAIF AL JARWAN
Member- Board of Directors

Mr. Rashad Al Jarwan is also the General Manager and Member of the Board of Directors of the parent company, Dana Gas PJSC. He has 28 years of professional experience in Abu Dhabi National Oil Company (ADNOC) and its group of companies in the oil and gas business, covering Technical, Operational, Commercial and Executive responsibilities. His successful career path is as follows:

*General Manager, Abu Dhabi Gas Liquefaction Co. (ADGAS),
from December 1997 to February 2006.*

*Board Member of National Petroleum Construction Company (NPCC)
from December 2004 to January 2006.*

*Board Member of Ruwais Fertilizer Industries (FERTIL)
from December 1998 to January 2006.*

*ADNOC Representative in the National Drilling Company (NDC)
from June 1995 to February 2001.*

He is a B.Sc. Petroleum & Natural Gas Engineering graduate from Pennsylvania State University - U.S.A., (1977)



AHMED RASHID AL ARBEED
Member- Board of Directors

Mr. Ahmed Al Arbeed is also the Board Member and Executive Director of the parent company Dana Gas, Managing Director, Kuwait Project, KPC Privatization and R&D. Continuing as Member of the Board of KPC for another term. As Managing Director, he launched a successful major media campaign assisting the Minister of Energy and KPC to obtain Parliamentary approval. He is currently developing strategy and methods to achieve KPC objectives in Privatization and R&D.

He is a member of SPE, the Kuwait Engineering Society and AIPN. He is also a renowned speaker in many industry conferences - both local and international.

He has a Bachelors Degree in Petroleum Engineering and Natural Gas from Pennsylvania State University - U.S.A



ANDREW ROBERTS
Member- Board of Directors

Mr. Roberts is also the Legal Director of the parent company Crescent Petroleum. Before working in-house in the oil business, he was a partner in private practice with a law firm based in London.

He has rich international experience gained through various points of his career in London, Qatar, Dubai, Malaysia and Geneva before taking up his current position with Crescent Petroleum in 2000. He has acquired specific experience in relation to onshore and offshore upstream oil and gas related industries.

Mr. Roberts graduated from Oxford University with an MA (Honors) and was admitted as a Solicitor of the Supreme Court of England and Wales in 1984.

SR. MANAGEMENT

SABAH UR RAHMAN KHAN
Project Manager
e-mail: skhan@gascities.com

GHAZI HAIDER
Business Development Manager
e-mail: ghaider@gascities.com

PETER SKELLEY
Industrial Development Manager
e-mail: pskelley@gascities.com

WALID HEBEIKA
Marketing Manager
e-mail: whebeika@gascities.com

NICHOLAS HILLS
General Counsel
e-mail: nhills@gascities.com





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HEAD OFFICE - UAE, SHARJAH

19th Floor, Crescent Tower, P.O. Box 4142, Corniche Al Buhaira, Sharjah, United Arab Emirates.
Tel: +971 (6) 556 4999. Fax: +971 (6) 556 5999. e-mail: mail@gascities.com Website : www.gascities.com

INTERNATIONAL OFFICES

UNITED KINGDOM

Crescent House
15 Grosvenor Crescent
London, SW1 7EE
United Kingdom
Tel: +44 (20) 7235 5500
Fax: +44 (20) 7245 6666
e-mail: mail@gascities.com

KSA - AL KHOBAR

Eastern Cement Tower,
Number 404,
King Fahad Road,
Al Khobar,
Kingdom of Saudi Arabia.
Tel: +966 (3) 8811222
Fax: +966 (3) 8811820
e-mail: mail@gascities.com

IRAQ

Baghdad Office

Tel: + 964 (1) 7194321, Fax: + 964 (1) 718 7243
e-mail: mail@gascities.com

Erbil Office

Apt No: 30, Building F, 7th Floor, Naz City,
Golan Street, Erbil, Kurdistan Region, Iraq.
Tel: +964 66 256 6170
e-mail: mail@gascities.com

Sulaimaniya Office

Sulaimaniya,
Kurdistan Region-Iraq.
Tel: +964 53 210 33 37+964 53 210 33 38
e-mail: mail@gascities.com

EGYPT

El Safa Office Tower
Sector 6, Zahraa El Maadi
Cairo - Egypt.
Tel : +20 2 (754) 5499
Fax : +20 2 (754) 6199.
e-mail: mail@gascities.com