Qatar Infrastructure Statistics

...An Overview

Economic Statistics and National Accounts Department
Qatar Statistics Authority, DOHA

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FOREWORD

The key driver of the inclusive growth of the State of Qatar is its rapid Infrastructure development. It is a critical enabler for economic growth and contributes significantly to human development, and the attainment of the Millennium Development Goals (MDG). The winning of the World cup hosting bid for 2022 is a strategic event that would further boost the Qatar’s infrastructure in the coming years. Measuring infrastructure performance is thus a challenge for decision making process to improve the availability and capacity of existing infrastructure and extend it in other directions as well.

Comprehensive and reliable statistics on the infrastructure sectors would play a prime role for the policy makers to determine infrastructure priorities, track progress on infrastructure development, benchmark performance against peers, and evaluate the impact of past investments. This report presents an overview of infrastructure statistics requirement of the State of Qatar.

The Economic Statistics and National Accounts Division of Qatar Statistics Authority have been producing some of the contemporary economic statistics that influence decisions of government, business, and individuals. This present document will help readers gaining interesting insight in respect of the infrastructure statistics development for the State of Qatar.

Qatar Statistics Authority places its deep appreciation for the efforts of all staff members of Economic Statistics and National Accounts Department in bringing out this Report.

Sheikh Hamad Bin Jabor bin Jassim Al Thani
President, Qatar Statistics Authority
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<tr>
<td>GFC</td>
<td>Gross fixed capital Formation</td>
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<td>GDP</td>
<td>Gross Domestic Product</td>
</tr>
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<td>GSDP</td>
<td>General Secretariat for Development Planning</td>
</tr>
<tr>
<td>QR</td>
<td>Qatari Riyal</td>
</tr>
<tr>
<td>QOC</td>
<td>Qatar Olympic Committee</td>
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<td>QSA</td>
<td>Qatar Statistics Authority</td>
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CHAPTER 1
INFRASTRUCTURE DEVELOPMENT

Introduction

Extensive and efficient infrastructure is critical for ensuring the real functioning of the economy, as it is an important factor determining the location of economic activity and the kinds of activities or sectors that can develop in a particular economy. Poor infrastructure impedes a nation’s economic growth and international competitiveness. Infrastructure development is a key driver of the inclusive growth of the State of Qatar. It is a critical enabler for economic growth and contributes significantly to human development, and the attainment of the Millennium Development Goals (MDG).

Without dependable statistics on the infrastructure sectors it is difficult for policy makers to determine infrastructure priorities, track progress on infrastructure development, benchmark performance against peers, and evaluate the impact of past investments. The need for comprehensive, comparable and reliable information on infrastructure is widely recognized.

The productivity growth has been higher in countries with an adequate and efficient supply of infrastructure services. Provision of infrastructure services to meet the demands of business, households and other users is one of the major challenges of economic development. In many surveys conducted by World Bank Group, private investors have cited reliable infrastructure services as an important consideration in their investment decisions. The report also points out that “infrastructure capacity grows step by step with economic output – a one percent increase in the stock of infrastructure is associated with a one percent increase in gross domestic product (GDP) across all countries”. In an increasingly recognized world, availability of good quality infrastructure is a crucial factor in attracting foreign investments. Availability and accessibility of adequate infrastructure in a country on par with international community is an indicator of the presence of high quality of life.

Role of infrastructure in fostering economic growth has been supported by the empirical literature. A number of studies have highlighted the importance of physical infrastructure as a determinant of economic growth.

- A country’s development is strongly linked to its infrastructure strength and its ability to expand trade, cope with population growth, reduce poverty etc.;
- Infrastructure is important for the services it provides. Infrastructure provides people with the services they need and want;
- Infrastructure is an input to production and raises the productivity of other factors. Infrastructure connects goods to the markets, workers to industry, people to services, and the poor in rural areas to urban growth centres;
- Infrastructure lowers costs, enlarges markets, and facilitates trade; and
- Thus, Infrastructure provides services that support economic growth by increasing the productivity of labour and capital thereby reducing the costs of production and raising profitability, production, income and employment.

***
Chapter 2

Infrastructure Statistics - the core statistics
CHAPTER 2

INFRASTRUCTURE STATISTICS-THE CORE STATISTICS

Measuring infrastructure performance is required for decision making purposes to improve the availability and capacity of existing infrastructure and extend it in other directions as well. Therefore to create and manage good quality infrastructure, we need to have some measures of infrastructure. To collect meaningful statistics for measuring infrastructure it is desirable to know why we need these statistics. In case of infrastructure the statistics are required for following purposes:

- Assess the condition of the existing assets;
- Evaluate the extent to which the infrastructure meets current demand;
- Assess whether infrastructure is likely to be able to meet demand in the future;
- Benchmarking: to compare our infrastructure availability with others.

For assessing the existing assets and generating meaningful information from it the infrastructure statistics are classified into five broad categories:

- Access indicators: they measure the availability of infrastructure over geographic area and the proportion of population.
- Quality indicators: they measure the quality i.e. whether the available infrastructure is of use or not.
- Fiscal costs & revenue indicators: they include Budget outlay, Expenditure, Investment and Revenue generated.
- Utilization indicators: they indicate whether the infrastructure is being utilized to its full capacity or not.
- Affordability indicators: they indicate whether the infrastructure can be afforded by people.

The infrastructure statistics are although available in dispersed manner, there is a need to compile these statistics in a consolidated and comprehensive way that can be useful for the policy makers and researchers. Infrastructure being a broad term, there is always a debate on what is included and what is excluded from infrastructure.

Some of the Infrastructure definitions used internationally are based on the Classification of Functions of Government (COFOG) in the Government Finance Statistics Manual (GFSM) of the International Monetary Fund (IMF) and are detailed below.

- **Road transport** includes the administration of affairs concerning the operation, use, construction, and maintenance of road transport systems and facilities (roads, bridges, tunnels, parking facilities, bus terminals, and so on). It includes highways, urban and rural roads, streets, bicycle paths, and footpaths.
- **Railway transport** includes the administration of affairs and services concerning the operation, use, construction, or maintenance of railway transport systems and facilities (railway roadbeds, terminals, tunnels, bridges, embankments, cuttings, and so on). It includes long-line and interurban railway transport systems; urban rapid transit railway
systems, and other street railway transport systems; and the acquisition and maintenance of rolling stock.

- **Maritime transport** includes the administration of affairs and services concerning the operation, use, construction, and maintenance of inland, coastal, and ocean transport systems and facilities (harbors, docks, navigation aids and equipment, canals, bridges, tunnels, channels, breakwaters, piers, wharves, terminals, and so on).

- **Air transport** includes the administration of affairs and services concerning the operation, use, construction, and maintenance of air transport systems and facilities (airports, runways, terminals, hangars, navigation aids and equipment, air control amenities, and so on). It also includes radio and satellite navigation aids; emergency rescue services; scheduled and nonscheduled freight and passenger services; and the regulation and control of flying by private individuals.

- **Water supply** includes the administration of water supply affairs, the assessment of future needs and the determination of available resources to meet those needs, and the supervision and regulation of all facets of portable water supply including water purity, price, and quality controls.

- **Sanitation** (wastewater management) includes the administration, supervision, inspection, operation, and support of sewerage systems and wastewater treatment;

- **Electricity (power)** covers both traditional sources of electricity such as thermal or hydropower supplies and newer sources such as wind or solar; the administration of electricity affairs and services; the construction, development, and rationalized exploitation of electricity supplies; and the supervision and regulation of the generation, transmission, and distribution of electricity;

- **Nonelectric energy** covers the administration, construction, maintenance and, operation of nonelectric energy affairs and services, which chiefly concern the production, distribution, and utilization of heat in the form of steam, hot water, or hot air;

- **Other fuels** include the administration, construction, maintenance and operation of affairs and services involving fuels such as alcohol, wood and wood waste, bagasse, and other noncommercial fuels;

- **Information and communication technology (ICT)** includes the administration of affairs and services concerning the construction, extension, improvement, operation, and maintenance of communication systems (postal, telephone, telegraph, wireless, and satellite communication systems).
Chapter 3

Concepts and coverage of Infrastructure Statistics
CHAPTER 3
CONCEPTS AND COVERAGE OF INFRASTRUCTURE SECTOR STATISTICS

The statistics related with infrastructure and the services provided by it have always been in the administrative records, the concept itself is relatively new and is being revisited by the Central Statistics Offices. The American Heritage Dictionary of the English Language writes that “the term infrastructure has been used since 1927 to refer collectively to roads, bridges, rail lines, and similar public works”. However, in The English dictionary the term did not find any mention until 1950s. In late 80s and 90s the word became very prominent and was discussed in almost every forum.

Though extensively discussed, standardization of the definition of infrastructure has gained movement in the recent years. Although it is now well recognized that infrastructure impacts the economic growth of a country, there is no unique concept in scientific literature for defining infrastructure and determining its components. It is usually considered as basic public infrastructure that facilitates the economy and society to operate. World Bank report (2004) mentions infrastructure as an umbrella term for many activities. Due to various descriptions it becomes difficult to analyze infrastructure in a comparable way and draw meaningful conclusions.

Infrastructure is important in determining the availability of inputs that are crucial to a wide variety of productive activities. Its non-availability will act as a severe constraint on the productive capacities of the economy. Infrastructure is an important input for industrial and overall economic development of a country. However, there is no clear cut definition of infrastructure nor its characteristics defined which can differentiate infrastructure sector from other sectors. Based on the necessity of infrastructure activities like power, transport, telecommunication, water, sanitation, disposal of waste etc. which are central to the activities of household and economic production, one could view these activities as essential inputs to the economic system.

Economists and urban planners distinguish two types of infrastructure: economic infrastructure and social infrastructure. Economic infrastructure is defined as the infrastructure that promotes economic activity, such as roads, highways, railroads, airports, sea ports, electricity, telecommunications, water supply and sanitation. Social infrastructure (such as schools, libraries, universities, clinics, hospitals, courts, museums, theatres, playgrounds, parks, fountains and statues) is defined as the infrastructure that promotes the health, education and cultural standards of the population – activities that have both direct and indirect impact on the welfare. In literature, following terms also find a mention:

- **Hard infrastructure** is what we normally have in mind: physical assets/public works, such as roadwork, airport, mass transit systems, stadiums, communications, satellite system, GPS, etc.
- **Soft infrastructure** refers to systems and institutions needed to maintain the economic, health, cultural and social standards of a country. It includes a range of systems, rules and regulations relating to the financial system, the education system, the health care system, government system.
For us statisticians, hard infrastructure will be easily measured and valued. The soft ones (intangibles) will be a bit difficult and challenging and it is a topic of “Measuring the Un-Measurable”.

Infrastructure tends not to be user or user specific and typically have long-lived engineering structures. It indicated six pertinent characteristics for identification of infrastructure sub-sectors, viz. (a) natural monopoly; (b) non-tradability of output; (c) bestowing externalities on society; (d) high-sunk costs or asset specificity; (e) non-rivalness (up to congestion limits) in consumption; and, (f) possibility of price exclusion.

The sub-sectors listed below satisfy all six characteristics:

- Railway tracks, signalling system, stations
- Roads, bridges
- Runaways and other airport facilities
- Transmission and distribution of electricity
- Telephone lines, telecommunications network
- Pipelines for water, crude oil, slurry, etc.
- Waterways, port facilities
- Canal networks for irrigation
- Sanitation or sewerage.

Initially, the above-listed infrastructure facilities may be taken up for data collection. Thereafter, considering the other characteristics mentioned above namely: (d) high-sunk costs or asset specificity; (e) Non-rivalness in consumption; and (f) Possibility of price exclusion only, the above list of infrastructure facilities may be extended to include the following sectors in an extended list closely corresponding with existing notion of infrastructure:

- Rolling stock on railways
- Vehicles
- Aircrafts
- Power generating plants
- Production of crude oil, purification of water
- Ships and other vessels.

It may be reemphasized that there is an urgent need for a strong statistical database on this sector due to its increasing importance in the economy. Statistics relating to various types of infrastructure as well as its geographic distribution will be important for policy and planning purposes, as well as in guiding investment decisions.

Qatar has a huge gap of infrastructure data and it has to approach Ashghal, GSDP, Mega Projects Steering Committees, and other stakeholders to gather data since it is very essential for Qatar’s future projects (2020, 2022 sports events etc.)

Qatar 2010 Census included information about infrastructure including the number, type of (hospital, sports clubs, cinemas, towers, schools, apartments, villa, hotel, etc.),
number of floors, and age of buildings. It also included data about electricity, water and sewage connections to these buildings.

QSA has data on internet connections to households and establishments. However, the Census did not cover road works, airports etc. but much of this information should be available from various ministries and organizations responsible for these activities. QSA can find additional data from administrative sources or from sample surveys. It has many sample surveys in development and can adapt to fit whatever needs are defined.

The possible list of sectors to be included under infrastructure is:

- Electricity (generation, transmission and distribution);
- Water supply and sanitation (including solid waste management, drainage and sewerage) and street lighting
- Telecommunications
- Road and bridges
- Ports
- Inland waterways
- Airports
- Railways (including rolling stock and mass transit system) [future item]
- Irrigation (including watershed development)
- Storage and Ware housing
- Oil and gas pipeline networks

The identified infrastructure sub-sectors may be classified, for the sake of convenience, under five broad categories. These are: Transport; Energy; Water and Sanitation; Communication; and Social and Commercial Infrastructure. The details are summarized as under:

<table>
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<th>S. No</th>
<th>Category</th>
<th>Infrastructure sub-sectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Transport</td>
<td>• Roads and bridges&lt;br&gt;• Ports&lt;br&gt;• Inland waterways&lt;br&gt;• Airports&lt;br&gt;• Railway Tracks including overhead tracks, tunnels, bridges&lt;br&gt;• Urban Public Transport (except rolling stock in case of urban road transport)</td>
</tr>
<tr>
<td>S. No</td>
<td>Category</td>
<td>Infrastructure sub-sectors</td>
</tr>
<tr>
<td>-------</td>
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<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2.</td>
<td>Energy</td>
<td>• Electricity Generation&lt;br&gt;• Electricity Transmission&lt;br&gt;• Electricity Distribution&lt;br&gt;• Oil pipelines&lt;br&gt;• Oil/Gas/Liquefied Natural Gas (LNG) storage facility&lt;br&gt;• Gas pipelines</td>
</tr>
<tr>
<td>3.</td>
<td>Water &amp; Sanitation</td>
<td>• Solid Waste Management&lt;br&gt;• Water supply pipelines&lt;br&gt;• Water treatment plants&lt;br&gt;• Sewage collection, treatment and disposal system&lt;br&gt;• Irrigation (dams, channels, embankments etc.)&lt;br&gt;• Storm Water Drainage System</td>
</tr>
<tr>
<td>4.</td>
<td>Communication</td>
<td>• Telecommunication (Fixed network)&lt;br&gt;• Telecommunication towers</td>
</tr>
<tr>
<td>5.</td>
<td>Social and Commercial Infrastructure</td>
<td>• Education Institutions (capital stock)&lt;br&gt;• Hospitals (capital stock)&lt;br&gt;• Star hotels&lt;br&gt;• Common infrastructure for industrial parks, SEZ, tourism facilities and agriculture markets.&lt;br&gt;• Fertilizer (Capital investment)&lt;br&gt;• Post-harvest storage infrastructure for agriculture and horticultural produce including cold storage&lt;br&gt;• Soil-testing laboratories&lt;br&gt;• Cold chain</td>
</tr>
</tbody>
</table>

The statistics for various sectors constituting infrastructure may be available with the concerned Ministries/Departments, it is necessary to consolidate these statistics in one place under one broad sector named as “Infrastructure”. It has been felt that infrastructure being the backbone of all productive processes; the statistics on this sector would become a necessity sooner or later.

The six parameters for identification of infrastructure sector and the five indicators used for classification of infrastructure statistics are described in the next chapter.

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CHAPTER 4

CHARACTERISTICS OF INFRASTRUCTURE SUBSECTORS

The characteristics of Infrastructure subsectors are discussed in the following paragraphs:

Natural Monopoly

Natural monopoly reflects a situation where one firm can meet the market’s entire demand for a goods or service at a price lower than the possible two or more firms can. Many infrastructure facilities have a significant component characterized by declining cost associated with increasing output throughout the range of the possible demand. This creates a situation of natural monopoly. However, this situation can change due to technical or structural developments. Telecom sector is the classic example of a sector which has swung from a monopoly situation, when it was necessary to have a wire line network to a state of competition mainly due to technology advancements in the field of wireless telephony.

High sunk costs or asset specificity

Sunk costs are investment costs which cannot be immediately recovered by the possible sale of the assets that were invested in. Sunk costs represent both barriers to exit from the sector and barriers to entry into the sector. High sunk cost makes an investment irreversible which impacts the level of investment by industry. Longer periods of gestation and very large investment in activity specific assets that cannot be deployed elsewhere, such as road-typical of infrastructure projects, result into higher sunk cost. Many infrastructure services are designed to be delivered through a dedicated network. Common examples are piped water, electric power, telecommunication towers, and sewerage and rail services. All of these industries involve networks which distribute products or services over geographic space and in most cases the networks are capital intensive and the investments are durable and immobile. High sunk costs imply that the service is prone to be a natural monopoly. If investments are durable and immobile a firm cannot exit market without losing its investments.

Non tradability

A tradable goods or service can be sold in another location, far from where it was produced. Different goods have different levels of tradability; the higher the cost of movement and the time taken for Transportation and the shorter the shelf life, the less tradable are such goods. Most infrastructure services are non-tradable in nature. In some cases, carriage may not be tradable but the content may be. A common example is power Transmission system which is non-tradable even though electric power itself may be tradable. Non-tradability implies that the stock of infrastructure services cannot be readily augmented through imports.
Non rivalness in consumption

Public good is normally characterized by two factors – non-rivalness and non-excludable. This means that consumption of the good by an individual does not reduce availability of the good for consumption by others and that no one can be effectively excluded from using the good. The characteristic of non-rivalness implies zero marginal cost of providing benefit of a public good (infrastructure service in this case) to an additional consumer, usually up to a certain capacity or congestion limit.

Possibility of price exclusion

Most infrastructure services however have one characteristic that is absent in the case of pure public goods, namely, price exclusion whereby enjoyment of benefits is contingent on payment of charges. Price exclusion is a characteristic of ‘private goods’. Efficiency requires that the price be set at marginal cost. However, in this case, it will not be possible to recover the cost of provision (except through taxes). Besides as capacity limits are reached there are positive marginal costs of providing additional capacity. The pricing of infrastructure is thus not easily amenable to market principles.

Presence of Externalities

Many infrastructure services are also characterized by the presence of externalities. The typical example is that of improvement in public health from better water and sewerage infrastructure. An absence of public hygiene will hurt even those who are individually hygienic. Similarly a road could lead to an increase in the value of adjoining land. In this sense, infrastructure creates external benefits or positive externalities. These externalities are not remunerated. Naturally if private players do not reap all the benefits of a public good which they have produced, their incentive to produce it voluntarily might be insufficient and market may fail to produce efficient results.

CLASSIFICATION OF INFRASTRUCTURE STATISTICS

The infrastructure statistics are classified into five indicator groups as given below:

Access indicators

Access indicators measure the extent to which people can make use of or take advantage of infrastructure services—it does not necessarily mean they use the service. Geographically, it captures how far the next access point is. Time wise, it measures how frequently the service is provided or how long does it take to be connected. Socially, it measures if all citizens have access to services, or if services are limited to specific groups (e.g. special tariffs, families, elderly, etc.)

Quality indicators

Quality indicators encompass both qualitative and quantitative measures. The former are perceived quality indicators collected by asking qualitative questions (like rank from 1 to 10, the quality of the service). The latter are technical quality indicators with a low degree of discretion involved; usually reported by the utilities or providers. Examples are electric outages or reported phone faults.
Fiscal and revenue indicators

These indicators provide information about the government / private budget allocated to the infrastructure. It also provides information about the utilization of these financial resources. Further, the revenue generated through this infrastructure is also measured by some statistics given under these heads.

Utilization indicators

These indicators give the extent up to which the infrastructure is being utilized for the purpose for which it has been provided. It includes statistics like passengers carried, freight carried etc.

Affordability indicators

Affordability indicators give a sense of the extent to which infrastructure services are provided at a reasonable price. Ideally, measures of this outcome tell the extent to which the price of a standard consumption bundle is consistent with the ability to pay of the users. Ideally also, these measures should be gathered from household surveys—e.g. surveys specifying the percentage of the household income or household expenditure allocated to a specific service for different income classes. In practice, the only information not too difficult to collect is the average or sometimes the nominal price and occasionally, the tariff structure.
The goal of the Economic Statistics and National Accounts Department of QSA is to provide a comprehensive, coherent summary of major economic infrastructure in the State of Qatar and its use. A framework of time series statistics has been developed with this end in mind. A range of datasets of varying quality and a short commentary on these are presented in the following tables.

However, there are a number of areas of the framework where suitable datasets are not currently compiled. These data gaps are highlighted in the Chapter 3 and all efforts are being made to meet the needs of users in general and policy/decision makers in particular.

Table 5.1

<table>
<thead>
<tr>
<th>Economic Activity</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010*</th>
<th>2011*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity and Water</td>
<td>1,757</td>
<td>1,817</td>
<td>2,040</td>
<td>2,031</td>
<td>2,070</td>
<td>2,565</td>
</tr>
<tr>
<td>Percentage to GDP</td>
<td>1.1</td>
<td>1.0</td>
<td>0.9</td>
<td>0.8</td>
<td>0.7</td>
<td>0.8</td>
</tr>
<tr>
<td>Percentage change</td>
<td>3.4</td>
<td>12.3</td>
<td>-0.4</td>
<td>1.9</td>
<td>23.9</td>
<td></td>
</tr>
<tr>
<td>Building and Construction</td>
<td>10,519</td>
<td>14,804</td>
<td>26,532</td>
<td>28,352</td>
<td>28,478</td>
<td>29,134</td>
</tr>
<tr>
<td>Percentage to GDP</td>
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* Figures for 2010 and 2011 are preliminary estimates.

Table 5.2

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<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010*</th>
<th>2011*</th>
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<td>290,151</td>
<td>419,582</td>
<td>355,986</td>
<td>463,489</td>
<td>631,609</td>
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</table>

* Figures for 2010 and 2011 are preliminary estimates.
It may be noted from the first part of the table that the GVA contribution of the infrastructure sectors is around 27% of the total economy of the economy, which is predominantly a hydrocarbon economy. However, the overall percentage contribution of the infrastructure sector varies year to year as may be seen from the following numbers.

Table 5.2: Contribution of Infrastructure sectors in the Qatar Economy

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<thead>
<tr>
<th></th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010*</th>
<th>2011*</th>
</tr>
</thead>
<tbody>
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<td>50,694.0</td>
<td>58,369.0</td>
<td>71,026.0</td>
<td>76,818.4</td>
<td>87,156.8</td>
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<td>Sectors GDP at 2004</td>
<td>156,662</td>
<td>184,838</td>
<td>217,486</td>
<td>243,492</td>
<td>284,226</td>
<td>324,356</td>
</tr>
<tr>
<td>% to GDP</td>
<td>25.1</td>
<td>27.4</td>
<td>26.8</td>
<td>29.2</td>
<td>27.0</td>
<td>26.9</td>
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</tbody>
</table>

* Preliminary Estimates

Table 5.3: GDP by Expenditure components at current prices

From the Table 5.3 above, it may be noted that the gross capital formation, which primarily represent the investment in infrastructure sectors account for more than 1/3rd of the GDP, though the share varies over the years as may be seen from the following chart.
### Population and Labour Force Infrastructure

#### Table 5.4

<table>
<thead>
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<th>Main Occupation (ISCO-88)</th>
<th>Sex</th>
<th>Age</th>
<th>Total</th>
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<td></td>
<td></td>
<td>+ 65</td>
<td>64 - 55</td>
</tr>
<tr>
<td></td>
<td>males</td>
<td></td>
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</tr>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>164,183</td>
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<td>16,335</td>
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<td>8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS</td>
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#### Chart 5.1

![Chart 5.1: GCF share in GDP](image)

- **GCF share in GDP**
- **Percentage**
- **2004**: 31.5
- **2005**: 34.2
- **2006**: 42.2
- **2007**: 47.1
- **2008**: 41.6
- **2009**: 44.7
- **2010**: 35.3

Qatar Infrastructure Statistics - An overview
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<td></td>
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<td>Non-paid Family Worker</td>
<td>Employee</td>
<td>Own Account Worker</td>
<td>Employer</td>
<td>Total</td>
<td></td>
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<tbody>
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<td></td>
<td></td>
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<td>Employee</td>
<td>Own Account Worker</td>
<td>Employer</td>
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<td>423</td>
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<td>301</td>
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<td>745</td>
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<td>3,294</td>
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<tr>
<td>Other</td>
<td>Total</td>
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<td>247</td>
<td>328</td>
<td>533</td>
<td>838</td>
<td>385</td>
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<td>274</td>
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<td>196</td>
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<td>896</td>
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### Table 5.8

#### Households, by type of housing unit and municipality

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<tr>
<th>Municipality</th>
<th>شاليه/هامشى</th>
<th>أخرى</th>
<th>جزء من منشأة</th>
<th>Part of establishment</th>
<th>غرفة في وحدة</th>
<th>Separate room</th>
<th>شقة</th>
<th>Apartment</th>
<th>مبنى إضافي</th>
<th>Additional building</th>
<th>فيلا</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>620</td>
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<td>8,638</td>
<td>2,162</td>
<td>3,382</td>
<td>53,807</td>
<td>3,457</td>
<td>22,645</td>
<td>49,402</td>
<td>146,707</td>
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<td></td>
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<tr>
<td>Doha</td>
<td>237</td>
<td>665</td>
<td>4,076</td>
<td>844</td>
<td>2,294</td>
<td>42,364</td>
<td>1,121</td>
<td>7,578</td>
<td>20,244</td>
<td>79,423</td>
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<td></td>
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<tr>
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<td>196</td>
<td>1,056</td>
<td>3,218</td>
<td>1,026</td>
<td>762</td>
<td>6,863</td>
<td>1,857</td>
<td>10,178</td>
<td>19,594</td>
<td>44,750</td>
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<td></td>
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<tr>
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<td>84</td>
<td>247</td>
<td>766</td>
<td>180</td>
<td>165</td>
<td>2,903</td>
<td>156</td>
<td>1,757</td>
<td>3,326</td>
<td>9,584</td>
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<td></td>
</tr>
<tr>
<td>Umm Slal</td>
<td>38</td>
<td>146</td>
<td>295</td>
<td>54</td>
<td>59</td>
<td>233</td>
<td>242</td>
<td>1,050</td>
<td>3,046</td>
<td>5,163</td>
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<td></td>
</tr>
<tr>
<td>Al Khor and Al Thakhira</td>
<td>24</td>
<td>313</td>
<td>188</td>
<td>47</td>
<td>52</td>
<td>1,433</td>
<td>22</td>
<td>931</td>
<td>1,945</td>
<td>4,955</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Al Shamal</td>
<td>6</td>
<td>98</td>
<td>36</td>
<td>4</td>
<td>21</td>
<td>6</td>
<td>21</td>
<td>419</td>
<td>84</td>
<td>695</td>
<td></td>
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</tr>
<tr>
<td>Al Daayen</td>
<td>35</td>
<td>69</td>
<td>59</td>
<td>7</td>
<td>29</td>
<td>5</td>
<td>38</td>
<td>732</td>
<td>1,163</td>
<td>2,137</td>
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</table>

Source: The General Population, Housing & Establishments Census, 2010

### Table 5.9

#### Residential building by municipality and their connection to the public utilities networks

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Drainage</th>
<th>الكهرباء</th>
<th>الصرف الصحي</th>
<th>المجموع المباني السكنية</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not connected</td>
<td>connected</td>
<td>Not connected</td>
<td>connected</td>
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<tr>
<td>Doha</td>
<td>1,948</td>
<td>42,324</td>
<td>192</td>
<td>44,085</td>
</tr>
<tr>
<td>AL Rayyan</td>
<td>7,773</td>
<td>37,384</td>
<td>220</td>
<td>44,937</td>
</tr>
<tr>
<td>AL Wakra</td>
<td>1,844</td>
<td>6,713</td>
<td>142</td>
<td>8,415</td>
</tr>
<tr>
<td>Umm Slal</td>
<td>5,106</td>
<td>30</td>
<td>26</td>
<td>5,110</td>
</tr>
<tr>
<td>AL Khor</td>
<td>1,923</td>
<td>3,176</td>
<td>8</td>
<td>5,091</td>
</tr>
<tr>
<td>AL Shamal</td>
<td>968</td>
<td>0</td>
<td>6</td>
<td>962</td>
</tr>
<tr>
<td>Al Daayen</td>
<td>2,902</td>
<td>0</td>
<td>64</td>
<td>2,838</td>
</tr>
<tr>
<td>Total</td>
<td>22,464</td>
<td>89,632</td>
<td>658</td>
<td>111,438</td>
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</table>

Source: The General Population, Housing & Establishments Census, 2010
### Table 5.10

**NUMBER OF NEW PROJECTS EVALUATED FOR THEIR IMPACTS ON ENVIRONMENT**  
2005 - 2010

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Projects</td>
<td>32</td>
<td>170</td>
<td>193</td>
<td>272</td>
<td>170</td>
<td>66</td>
</tr>
<tr>
<td>Small and Medium Projects</td>
<td>911</td>
<td>348</td>
<td>365</td>
<td>733</td>
<td>876</td>
<td>698</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>943</td>
<td>518</td>
<td>558</td>
<td>1,005</td>
<td>1,046</td>
<td>764</td>
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### Table 5.11

**NUMBER OF RECORDED TERRESTRIAL VIOLATIONS**  
2008 - 2009

<table>
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<tr>
<th>Type of Violation</th>
<th>2009</th>
<th>2008</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Number of violations</td>
<td>Number of violations</td>
</tr>
<tr>
<td>Illegal waste dumping</td>
<td>26.1%</td>
<td>13.8%</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>4</td>
</tr>
<tr>
<td>Soil excavation</td>
<td>9.1%</td>
<td>44.8%</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Non-permitted transportation of filling material</td>
<td>4.5%</td>
<td>6.9%</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Rawdahs damage</td>
<td>6.8%</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Hunting violation</td>
<td>-</td>
<td>13.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Plant cutting</td>
<td>1.1%</td>
<td>3.4%</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Discharge of waste water and cement</td>
<td>26.1%</td>
<td>10.3%</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>3</td>
</tr>
<tr>
<td>Stone crusher violations</td>
<td>17.0%</td>
<td>3.4%</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>Buildings without permission</td>
<td>9.1%</td>
<td>3.4%</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100.0%</td>
<td>88%</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>29</td>
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Table 5.12
QUALITY OF COASTAL WATERS IN QATAR 2010

<table>
<thead>
<tr>
<th>Location</th>
<th>Max. Depth (m)</th>
<th>Min. Depth (m)</th>
<th>Salinity (psu)</th>
<th>Temp. (°C)</th>
<th>Dissolved oxygen (mg/L)</th>
<th>BOD (mg/L)</th>
<th>COD (mg/L)</th>
<th>Dissolved oxygen %</th>
<th>BOD %</th>
<th>N.D</th>
<th>Dissolved oxygen %</th>
<th>BOD %</th>
<th>N.D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khor Al-Odaid</td>
<td>4.00</td>
<td>4.00</td>
<td>7.93</td>
<td>57.09</td>
<td>26.13</td>
<td>6.02</td>
<td>62.45</td>
<td>2.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mesailued</td>
<td>11.00</td>
<td>4.00</td>
<td>7.87</td>
<td>52.47</td>
<td>22.91</td>
<td>5.47</td>
<td>69.85</td>
<td>1.94</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AL-Wakra</td>
<td>2.25</td>
<td>2.25</td>
<td>7.95</td>
<td>49.14</td>
<td>22.78</td>
<td>6.60</td>
<td>100.02</td>
<td>1.39</td>
<td></td>
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<td></td>
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<tr>
<td>Ras Abu-Fontas</td>
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<td>2.75</td>
<td>7.84</td>
<td>49.61</td>
<td>22.51</td>
<td>26.13</td>
<td>69.70</td>
<td>2.65</td>
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<tr>
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<td>2.00</td>
<td>7.83</td>
<td>49.00</td>
<td>22.70</td>
<td>5.50</td>
<td>75.05</td>
<td>3.49</td>
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<tr>
<td>AL-Khor</td>
<td>5.00</td>
<td>5.00</td>
<td>8.11</td>
<td>48.58</td>
<td>24.72</td>
<td>6.44</td>
<td>106.20</td>
<td>1.12</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Dakhirah</td>
<td>4.70</td>
<td>4.70</td>
<td>8.07</td>
<td>49.04</td>
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<td>6.64</td>
<td>98.30</td>
<td>0.95</td>
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<tr>
<td>Ras Laffan</td>
<td>12.50</td>
<td>5.00</td>
<td>8.05</td>
<td>46.94</td>
<td>24.60</td>
<td>6.86</td>
<td>89.75</td>
<td>1.65</td>
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<tr>
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<td>3.50</td>
<td>3.50</td>
<td>7.74</td>
<td>48.18</td>
<td>19.61</td>
<td>4.86</td>
<td>75.20</td>
<td>2.30</td>
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</tr>
<tr>
<td>Dukhan</td>
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<td>5.00</td>
<td>8.10</td>
<td>62.10</td>
<td>23.52</td>
<td>6.77</td>
<td>70.20</td>
<td>3.06</td>
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<td>Salwa</td>
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<td>1.50</td>
<td>8.21</td>
<td>64.40</td>
<td>24.86</td>
<td>7.45</td>
<td>70.10</td>
<td>2.67</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

(PSU): Practical salinity unit. 
(BOD): Biochemical oxygen demand. 
(COD): Chemical oxygen demand. 
(N.D): Not detected

Table 5.14
NUMBER OF BOATS, FISHERMEN AND QUANTITY OF LOCAL CATCH 2000 - 2010

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of fishermen</th>
<th>No. of boats</th>
<th>Local catch (MT)</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>5,176</td>
<td>515</td>
<td>7,139.6</td>
<td>2000</td>
</tr>
<tr>
<td>2001</td>
<td>4,721</td>
<td>515</td>
<td>8,863.5</td>
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</tr>
<tr>
<td>2002</td>
<td>4,931</td>
<td>515</td>
<td>7,154.7</td>
<td>2002</td>
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<tr>
<td>2003</td>
<td>4,199</td>
<td>515</td>
<td>11,295.0</td>
<td>2003</td>
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<td>2004</td>
<td>4,543</td>
<td>515</td>
<td>11,134.0</td>
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<tr>
<td>2005</td>
<td>4,616</td>
<td>515</td>
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<td>2006</td>
<td>2,953</td>
<td>437</td>
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<tr>
<td>2007</td>
<td>2,864</td>
<td>445</td>
<td>15,182.9</td>
<td>2007</td>
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<td>2008</td>
<td>2,899</td>
<td>484</td>
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</tr>
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<td>2009</td>
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</tr>
<tr>
<td>2010</td>
<td>3,300</td>
<td>495</td>
<td>13,760.4</td>
<td>2010</td>
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### Table 5.1

#### April 2010

Population of 10 years and above by age, sex and educational attainment

<table>
<thead>
<tr>
<th>Sex and educational attainment</th>
<th>+ 65</th>
<th>64 - 55</th>
<th>54 - 45</th>
<th>44 - 35</th>
<th>34 - 25</th>
<th>24 - 15</th>
<th>14 - 10</th>
<th>All ages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>13,817</td>
<td>52,346</td>
<td>185,860</td>
<td>412,901</td>
<td>549,430</td>
<td>252,497</td>
<td>64,991</td>
<td>1,531,842</td>
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<tr>
<td>Illiterate</td>
<td>4651</td>
<td>4884</td>
<td>7429</td>
<td>12496</td>
<td>17023</td>
<td>8,029</td>
<td>66</td>
<td>54,578</td>
</tr>
<tr>
<td>Read and write Night school</td>
<td>4034</td>
<td>13248</td>
<td>50,690</td>
<td>88,178</td>
<td>129,966</td>
<td>57,858</td>
<td>23,111</td>
<td>367,085</td>
</tr>
<tr>
<td>Primary</td>
<td>1342</td>
<td>7992</td>
<td>35,666</td>
<td>94,086</td>
<td>118,919</td>
<td>53,476</td>
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<td>348,708</td>
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<td>Preparatory</td>
<td>589</td>
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<td>50,578</td>
<td>60,875</td>
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<td>Vocational</td>
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<td>129</td>
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<td>0</td>
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<td>6209</td>
<td>12,330</td>
<td>16,747</td>
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<td>43,463</td>
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<td>University and above</td>
<td>1866</td>
<td>13012</td>
<td>36,732</td>
<td>67,162</td>
<td>84,716</td>
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<td>2</td>
<td>4</td>
<td>10</td>
<td>33</td>
<td>53</td>
<td>19</td>
<td>12</td>
</tr>
<tr>
<td><strong>Males</strong></td>
<td>8,149</td>
<td>40,147</td>
<td>150,439</td>
<td>435,833</td>
<td>187,799</td>
<td>33,295</td>
<td>1,198,894</td>
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</tr>
<tr>
<td>Illiterate</td>
<td>1729</td>
<td>2590</td>
<td>5050</td>
<td>9998</td>
<td>14389</td>
<td>6,904</td>
<td>33</td>
<td>40,693</td>
</tr>
<tr>
<td>Read and write Night school</td>
<td>2395</td>
<td>10067</td>
<td>42,035</td>
<td>73,718</td>
<td>109,925</td>
<td>51,351</td>
<td>11,887</td>
<td>301,358</td>
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<tr>
<td>Primary</td>
<td>959</td>
<td>6702</td>
<td>32,501</td>
<td>85,034</td>
<td>105,547</td>
<td>48,022</td>
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(1) Includes specialized Secondary Stage

Table 5.18

GOVERNMENT SCHOOLS AND CLASSROOMS

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(*) Includes the preparatory Division of Religious Institute in year 2007/2008.
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**HOTELS BY NUMBER OF SUITES, ROOMS, BEDS AND CLASS**

**2010**

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<th>عدد الاجنحة</th>
<th>عدد الغرف</th>
<th>عدد الاسرة</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luxury (*****)</td>
<td>6,926</td>
<td>3,977</td>
<td>852</td>
<td>17</td>
</tr>
<tr>
<td>First (****)</td>
<td>3,501</td>
<td>2,129</td>
<td>475</td>
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</tr>
<tr>
<td>Second (*** )</td>
<td>2,365</td>
<td>1,282</td>
<td>297</td>
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</tr>
<tr>
<td>Third (**)</td>
<td>853</td>
<td>385</td>
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</tr>
<tr>
<td>Fourth (*)</td>
<td>68</td>
<td>53</td>
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<td><strong>Total</strong></td>
<td>13,713</td>
<td>7,826</td>
<td>1,748</td>
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### Table 5.20

**HOTELS BY NUMBER OF SUITES, ROOMS, BEDS AND CLASS**

**2011**

<table>
<thead>
<tr>
<th>Hotel Class</th>
<th>عدد الفنادق</th>
<th>عدد الاجنحة</th>
<th>عدد الغرف</th>
<th>عدد الاسرة</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luxury (*****)</td>
<td>7,323</td>
<td>369</td>
<td>4,488</td>
<td>562</td>
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<tr>
<td>First (****)</td>
<td>4,580</td>
<td>909</td>
<td>2,495</td>
<td>469</td>
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<tr>
<td>Second (*** )</td>
<td>2,679</td>
<td>81</td>
<td>1,089</td>
<td>357</td>
</tr>
<tr>
<td>Third (**)</td>
<td>662</td>
<td>6</td>
<td>386</td>
<td>73</td>
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<tr>
<td>Fourth (*)</td>
<td>68</td>
<td>-</td>
<td>53</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15,312</td>
<td>1,365</td>
<td>8,511</td>
<td>1,465</td>
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### Table 5.21

**HOTELS ACTIVITY BY HOTEL CLASS**

<table>
<thead>
<tr>
<th>Hotel Class</th>
<th>Occupancy Average Stay (Nights)</th>
<th>Average of Bed Occupancy</th>
<th>No. of Beds Year</th>
<th>No. of Touristic Nights</th>
<th>No. of Occupants</th>
<th>No. of Beds</th>
</tr>
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<tbody>
<tr>
<td>Luxury (*****)</td>
<td>7.2</td>
<td>42</td>
<td>2,672,895</td>
<td>1,117,097</td>
<td>155,181</td>
<td>7,323</td>
</tr>
<tr>
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<td>0.8</td>
<td>69</td>
<td>1,671,700</td>
<td>1,161,498</td>
<td>1,452,983</td>
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<tr>
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<td>1.3</td>
<td>30</td>
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<td>Third (**)</td>
<td>1.6</td>
<td>42</td>
<td>241,630</td>
<td>101,323</td>
<td>62,333</td>
<td>662</td>
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<tr>
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<td>24,820</td>
<td>8,690</td>
<td>5,743</td>
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<td>2,684,346</td>
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### Table 5.22

**NUMBER OF MOSQUES, ROLE OF KORANIC, IMAM & KHATEEB BY TYPE AND MUNICIPALITY**

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Type of Mosque</th>
<th>مسجد فروض (1) Mosques Where all Prayers are Performed except Gumma.</th>
<th>مسجد جامع (2) Mosques Where Prayers, Including Gumma Performed .</th>
<th>مسجد خاص (3) Eid Mosque</th>
<th>مسجد عام (4) Private Mosque</th>
<th>مسجد جامع (5) Temporary Building</th>
<th>مسجد غرور (6) Gumma Mosque</th>
<th>مسجد خاص (7) Forood Mosque</th>
</tr>
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<tbody>
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<td>201</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>AL-Rayyan</td>
<td>23</td>
<td>177</td>
<td>223</td>
<td>888</td>
<td>659</td>
<td>17</td>
<td>114</td>
<td>177</td>
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<td>AL- Wabarah</td>
<td>3</td>
<td>9</td>
<td>223</td>
<td>131</td>
<td>111</td>
<td>23</td>
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<td>38</td>
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<tr>
<td>Umm Salal</td>
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<td>7</td>
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<td>3</td>
<td>47</td>
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<tr>
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<td>1</td>
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<td>119</td>
<td>114</td>
<td>36</td>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>AL- Shamal</td>
<td>2</td>
<td>2</td>
<td>23</td>
<td>40</td>
<td>111</td>
<td>11</td>
<td>5</td>
<td>31</td>
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<tr>
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<td>11</td>
<td>59</td>
<td>37</td>
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<td>2</td>
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<td><strong>Total</strong></td>
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<td>87</td>
<td>537</td>
<td>2,132</td>
<td>1,534</td>
<td>244</td>
<td>45</td>
<td>549</td>
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</table>

(1) Mosques Where all Prayers are Performed except Gumma.
(2) Mosques Where Prayers, Including Gumma Performed .
(3) Praying ground Where The Two Eid's Prayers are Performed.
### Table 5.23

**MOVIE HOUSES, AUDIENCE AND NUMBER OF FILMS**  
**2007 - 2011**

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<td>540</td>
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<td>74</td>
<td>108</td>
<td>93</td>
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<td>432</td>
<td>516</td>
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### Table 5.24

**NEWSPAPERS AND MAGAZINES ISSUED IN THE STATE OF QATAR**  
**2007 - 2011**

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Table 5.25
PUBLIC LIBRARIES AND AVAILABLE BOOKS AND PERIODICALS
2007-2011

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<td>1,378</td>
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<td>38,059</td>
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<td>1,378</td>
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<td>39,425</td>
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<td>39,425</td>
<td>1,378</td>
<td>38,057</td>
<td>39,425</td>
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<tr>
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<td>4,013</td>
<td>42,645</td>
<td>-</td>
<td>4,013</td>
<td>41,926</td>
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<td>-</td>
<td>4,011</td>
<td>41,822</td>
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<td>4,011</td>
<td>41,822</td>
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<tr>
<td>AL-Shamal Library</td>
<td>-</td>
<td>2,779</td>
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<td>-</td>
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<td>Total</td>
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Sports Infrastructure
Table 5.26

QOC Sports Facilities During According to Type

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<tr>
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<td>Handball Court</td>
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Qatar Infrastructure Statistics-An overview
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2010 / 2011

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## Health Infrastructure

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* Rates are per 1000 Population
### Table 5.36

#### HOSPITALS, HEALTH CENTERS, CLINICS \(^{(1)}\) AND PHARMACIES

**2006-2010**

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\(^{(1)}\) Location and not Functional Distribution

\(^{(2)}\) Including Private Medical Complexes

---

*Qatar Infrastructure Statistics-An overview*
### Table 5.37

#### IN-PATIENT BEDS IN HOSPITALS BY SPECIALIZATION 2006-2010

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*Note: The data includes physicians working in the public sector and the semi public sector.*
Qatar Infrastructure Projects 2012 is specifically designed for MEED clients in the Middle East and Europe who wish to learn about and capitalize on the opportunities emerging in Qatar; the world’s fastest growing economy.

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- water and electricity
- water reuse
- waste management
- social infrastructure
- real estate developments; and
- stadia build leading up to the 2022 World Cup

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expanding their business in Qatar

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The agenda is currently being developed and will be available for download shortly. If you have any content or speaker suggestions, please contact Jennie Bishop on jennie.bishop@meed-dubai.com

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