



الهيئة العامة للإحصاء
General Authority for Statistics

Household Energy Survey 2017





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Methodology of the Household Energy Survey:

Definition:

It is a survey in which household energy data is collected for a sample of households selected and represented by all households. The data can calculate many estimates and indicators on energy consumption in the household sector by gender, nationality and the administrative area

Description:

It is a regular study that provides precise and comprehensive statistical data to meet the needs of decision-makers, data users and researchers on energy sources, forms, uses and consumption patterns across the household sector.

Survey Objectives:

The Household Energy Survey has many objectives, including:

1. Providing data on residence characteristics, such as type, components and air-conditioned areas.
2. Identifying the impact of economic, social and geographical variables on energy consumption.
3. Providing data on household consumption of various fuel types.
4. Providing data on energy consumption in the domestic sector to supplement the primary consumption coverage of various energy forms, which contributes to the preparation of energy balance.
5. Identifying patterns of energy consumption and the forms of energy used in the domestic sector.
6. Identifying the community behavior in energy consumption by type and source.

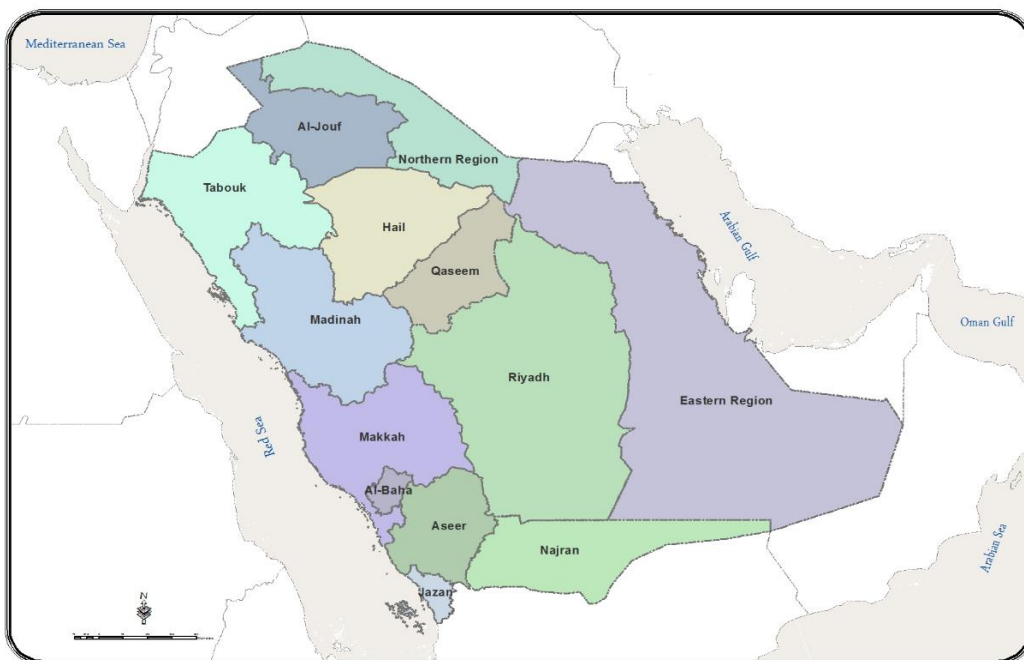




7. Creating a statistical database with indicators on energy consumption in the domestic sector across the Kingdom's provinces, including:
 - Data on household consumption of various petroleum products.
 - Data on household consumption of electricity.
 - Data on household consumption of biomass (fuelwood, coal, agricultural waste).
 - Usage of fuel and energy types based on different activities such as (medical, air-conditioning, lighting, heating, food preservation).
8. Identifying key instructional media in electric energy consumption.

Scope of survey

The survey covers the 13 administrative regions by using a sample of households in these regions represented by actual updating of the general population and housing census of 1431H (2010)





Time reference

- Data of the Household Energy Survey regarding the information of housing and household and their characteristics are based on the date of household's visit.
- Data of the Household Energy Survey regarding the use of fuel, electricity and biomasses (wood, coal and agricultural wastes) cover the year 2016.

Sample Design: -

The Household Energy Survey is one of sample-based household surveys carried out by the General Authority for Statistics by using the general population and housing census framework. To get highly efficient and effective estimates, the survey society has been divided into non-overlapping parts, characterized by relative homogeneity in their units. Each part is considered a category, and each category is dealt with as an independent society. A random sample is independently drawn from each category. Finally, all drawn sampling units are integrated to form the entire sample. To prepare this framework, each administrative region was divided into a number of categories ranging 3-10 categories, defined according to population size, so that the total number amounted to fifty-four categories all over the Kingdom. The optimum size of the main sample that fulfills the purposes different family researches conducted by the Authority all over the Kingdom and the administrative regions was identified. After that, primary sampling units were drawn, represented in statistical areas that amounted to 1334 statistical areas distributed over all administrative regions.

Survey Sample Design and Selection:

Head for the sample designing and proper methodology selection, the size of the sample of the new survey has been estimated, and the selected sample, which is a random categorical cluster sample, was identified. It was selected through two stages, in accordance with the following: -

First Phase: -

After determining the optimum size of the survey sample of families of each administrative region, the process of drawing the primary sampling units, i.e. statistical areas, from the framework of restricting and numbering buildings and real-estate begins. A number of 1340 sample statistical areas, out of 36198 total statistical areas within the framework of the census have been drawn. They





are distributed among all categories in all administrative regions using the method that is commensurate with the size, considering the number of Saudi families in them, distributed as follows:

S/N	Administrative Region		Sampling units number	S/N	Administrative Region		Sampling units number
1	Riyadh	Rural	186	8	Hail	Rural	44
		Urban	21			Urban	21
	Total		207		Total		65
2	Makkah	Rural	218	9	Northern Borders	Rural	58
		Urban	24			Urban	12
	Total		242		Total		70
3	Madinah	Rural	72	10	Jazan	Rural	44
		Urban	20			Urban	27
	Total		92		Total		71
4	Al-Qassim	Rural	48	11	Najran	Rural	50
		Urban	18			Urban	14
	Total		66		Total		64
5	Eastern Region	Rural	158	12	Al-Bahah	Rural	44
		Urban	10			Urban	16
	Total		168		Total		60
6	Asir	Rural	60	13	Al-Jouf	Rural	58
		Urban	30			Urban	8
	Total		90		Total		66
7	Tabuk	Rural	57	14	Total for the Kingdom	Rural	1097
		Urban	16			Urban	237
	Total		73		Total		1334



Second Stage:

The secondary sampling units, i.e. households, were randomly drawn from the statistical areas, which were chosen in the first phase using the regular random sample. About (25) households were chosen from each statistical area, totaling 33,500 households all over the Kingdom.



Survey Form Design

The survey form was prepared and designed by specialists at the Power Survey Department in the General Authority for Statistics (GASTAT). When designing the form, the international recommendations, standards, and definitions were taken into consideration to mirror changes that are taking place in the household sector over years. The resulting form was reviewed by experts of the GCC-STAT and other agencies in concern for their feedback and notes.

The survey forms shall generally include the following sections: -

- **Section I:** Geographical details which may be used to depict the household.
- **Section II:** The residence details (including types of house and possession, the estimated aged of the house; components, number and area as per the ventilation and air-conditioned spaces; source of power, solar-energy, cooking fuel, as well as environment data the cover source of drinking water, reservoir, sewage and ways and number of time to get-rid of waste.)
- **Section III:** Information about the household include (nationality, number of members, educational status, employed members and the average working hours.)
- **Section IV:** Usage of diesel (this includes data on [A] fuel oil, its usages, storage volume for winter and the remaining days of the year as per type of device, number and average of operation hours during the same period; [B] kerosene, its usages, storage volume for winter and the remaining days of the year as per type of device, number and average of operation hours per week for the same period; [C] Liquefied Petroleum Gas (LPG), its usages, cylinder and tank types, re-load times per year, cost and number of people sharing the same tank, types of devices, number and average of operation hours per week for the same period.)
- **Section V:** - ways of electricity use that included (house supply, type of electricity meters, power stabilizer, consumption for winter and the remaining days of the year as per type of device, number and average of operation hours per week for the same period as well as the other devices.

The form's Section V also included data on electricity rationalized usage and how much the respondent cares about rationalization.

- **Section VI:** The fuel wood, coal and agricultural waste (this includes the usage and type).
- **Section VII:** Outcome of the household visit.





▪ **Technical cadres:**

1. The specialists who take part in the study (for the supervisory and executive missions) are chosen from experts who have wide knowledge of field surveys and form works with good knowledge about the geographical mapping for all the Saudi regions.
2. The survey team includes members from the .Survey services agency and operations and methodologies authority.
3. The field work supervisory team shall comprise inspectors and supervisors who are working for GASTAT and represent all Saudi regions. All cadres have received the necessary training at headquarters and branches.
4. The programing and technical support job was carried out by a group of specialists from GASTAT to develop new applications and to support computer processes.



Data collection method

The process of Household Energy Survey data collection continues for four weeks. Because of the fact that the household is the focus of the research, the method of direct contact with the household has been used in the process of completing survey form. Researchers, in charge of this process, visited the sample households and completed data directly using the Household Energy Survey Form.

Key Concepts and Definitions:

The key concepts and definitions are important to keep work methodologies consistent and to be guidelines for field workers. So, please read carefully and stick closely to these definitions.

**First: Definitions of terms used in the survey:****❖ Administrative Region:**

Part of the Kingdom of Saudi Arabia that is administered by a government agency which is directly affiliated with the Ministry of Interior such as Riyadh and Makkah ... etc. And each administrative region has a capital city;

❖ Governorate:

Part of the region, the second-level of the subdivisions and reports directly to region, such as Al-Kharj Governorate of Riyadh Region;

❖ Municipality:

The administrative entity that reports to a governorate such as al-Dilam municipality of Al-Kharj Governorate; Others report directly to the Emirate headquarter such as Irqah which reports directly to Riyadh. Some municipalities report to other municipalities like Uyaynah of Halat Ammar in Tabuk region.

❖ Populated locality:

A static population cluster such as a city, village or a farm, or non-static like cluster around a water source.

❖ Village:

A clustered human settlement with a commonly recognized name, and a population of no less than 50 thousand, or no less than 10 inhabited dwellings.

❖ Covered populated locality:

A static human settlement with a population of less than (50 thousand, or no less than (10 inhabited dwellings. This definition covers public and private work locations.

❖ City:

For census purposes, 'city' refers herein to every locality with a municipality, or whose population exceeds (5,000 persons).

❖ District (Neighborhood):

Part of a city that includes building, streets and roads, with a commonly recognized name; It is usually surrounded with main streets dividing it from other neighborhoods. Citywide, districts numbering starts with (001) and ends with the number of the last one in a city.





❖ **Sector:**

A statistical division used for statistical purposes in cities. It is a geographically clustered area which represents a part of a district, and usually enclosed by main streets. At the district level, sectors serial numbering starts with (01) and ends with the number of the last one in a district.

❖ **Block:**

A geographical area surrounded by streets, and comprises a building or a number of contiguous buildings that are not separated by streets. It takes various shapes including a square, rectangle, circle or irregular-shaped space as in old neighborhoods. The block might also be an open space. At the sector level, blocks numbering starts with (001) and ends with the number of the last one in a sector.

❖ **Building:**

Building is every structure; whether permanent or temporary, single- or multi-storey, with one or more rooms, and has one or more doors through which to access it. A building might and might not be inhabited; and it could be intended for housing, or for economic, social or religious purposes ... etc., such as such as a complex, a palace, a villa, a popular house, a tent, a hut, a shack, a shanty, a government body, a shop, a mosque... etc.

Note that annexes to a building or a villa such as a garage or a shop are not counted as separate buildings. Likewise, bridges, power rooms, water pumps are not counted as buildings unless used for residential purposes during census period. In addition, buildings under construction are counted as buildings unless bases, foundations and walls are built.

❖ **Household:**

As per the population census, a 'household' refers to a person or a group of persons - with or without kinship binding them to one another - who share residence during the enumeration.

The household includes:

- Saudi and non-Saudi nationals who usually live with the household but they were absent while the survey was conducted for being temporarily away; for example, businessmen, tourists, people who are travel for medication, students on scholarship beyond the borders of the kingdom.





- Individuals who stay with the household and were absent during conducting the study for the reason of being serving at work night shifts; for example, guards, doctors, nurses, pharmacists, and airport employees, in addition to household members who were at some public dwellings during the researcher's visit to the household.
- Servants, drivers and the like who are members of the same household.
- Family members who are on a trip in the Kingdom.

❖ **Dwelling:**

It is a single- or multi-room unit which is primarily prepared for one family and has one separate door, whether it was still under construction, occupied or inhabited during the survey and enumeration. The dwelling might accommodate one or more households, one or more businesses, or a household and a business simultaneously. For the purposes of census and field studies, every inhabited building during the numbering period shall be counted as a dwelling, even if it was not set up for that purpose such as workshops and schools. A villa, house, apartment, tent, shack and formwork are types of dwellings.

❖ **Head of the family:**

It refers to the person regarded by the family members as its chief member. Usually, he is responsible for undertaking the responsibility of the household and his age must not be under (15) years old. If the family consists of children and their mother, and they are cared for by a relative who does not live with them, such a relative shall not be deemed as the head of the family, nor shall he be recorded as one of its members, since he shall be recorded with his own family. In this case, the mother shall be deemed as the head of the family.

❖ **Nationality:**

It is the individual's legal right of belonging to a particular country. It is usually defined by the passport the person already has, or has the right to obtain.

❖ **Supervisor's Area of Operation:**

It consists of an administrative region and covers a number of areas for inspectors and surveyors.

❖ **Inspector's Area of Operation:**

It includes a number of counting areas. On average, it includes a sample of (560 - 700) households distributed among (5) surveyors, serialized in the supervisor's area of operation.

❖ **Surveyor's Area of Operation:**





It involves a number of counting areas selected for survey from (4 to 5) areas, based on each area's circumstances. Surveyors are serialized within the inspector's area.

❖ **Counting area:**

It is the smallest statistical division used in census 1431H that is composed of a geographical space and includes a number of buildings, dwellings and an average of (75) households of which a sample has been taken. The number of the sampled households is (25) in every numeration area.

Second: Key terms and definitions:

The most recent international definitions appertaining to energy statistics are used and adopted to go in accordance with United Nations recommendations and other relating scientific resources.

❖ **Household Energy Consumption**

It refers to the energy consumed by the population for domestic affairs only (water heating, warming, air-conditioning, lighting, cooking ... etc.).

❖ **Fuel**

It refers to any type of material used to produce energy through a thermo-chemical or nuclear reaction.

❖ **Diesel**

It is a liquid hydrocarbon fuel that is extracted through crude oil distillation. It is heavy oil that is distilled between 200 - 380 °C. Its flash point is permanently higher than 50 °C, and its specific weight is higher than 82 °C.

❖ **kerosene**

It is medium oil that distills between 150 - 300 °C. Its specific weight is approximately 8, and its flash point is higher than 38 °C. It is not an aviation fuel.

❖ **Liquefied Petroleum Gas (LPG)**

It consists of a mixture of gases and is extracted from natural gas or from crude oil fractionation. It mainly consists of Propane and Butane or a mixture of them. It is used as a fuel for heating and household cooking, and as a fuel for some types of engines. It is additionally used as a raw material in some chemical industries. It is often marketed in the form of metal cylindrical canisters, or in the form of surface or underground tanks.

❖ **Electricity:**





It is the work done to move an electric charge via a connector. Its measuring unit is kilowatt/hour.

Electricity consumption = power (kilowatt) x time (hours)

❖ **Firewood**

All types of firewood used as a fuel

❖ **Charcoal**

It is a hard material that mainly contains carbon. It is extracted through firewood destructive distillation while being secluded from air.

❖ **Agricultural Residues**

It is the hard residues from fruit trees such as olive residues after squeezing. It has various benefits as it may be used in generating energy for baking bread in tabun ovens, and it may be used as a fertilizer for trees or as a fodder for animals.





Data Quality

Quality control – done in conjunction with data collection – is one of the key stages of implementing the household energy survey, when a fully automated system is adopted with certain regulations to control data entry, to find errors and notes on forms and to fix them under a supervisor after recurring to the household if necessary.

In addition, quality control stage involves following-up and studying daily reports coming from respective operation room, then preparing periodical reports on field work progress and submitting them to officials of the General Authority for Statistics by the administrative department supervising the survey.

This stage also incorporates field visits by the supervisor of household energy survey, in addition to department managers in concern and a number of specialists, to gain field insights into data collection, entry and auditing, and to follow up the application of instructions to obtain top quality results.

With special attention to the technical dimensions while not overlooking the administrative aspect, field visits focus on key cities in the survey sample, by adopting forms particularly prepared for this purpose. The forms feature sampling of some forms picked from a surveyor study to learn about data entry process, audit, and completing the field visit form including stratification with the organization of field and desk work.



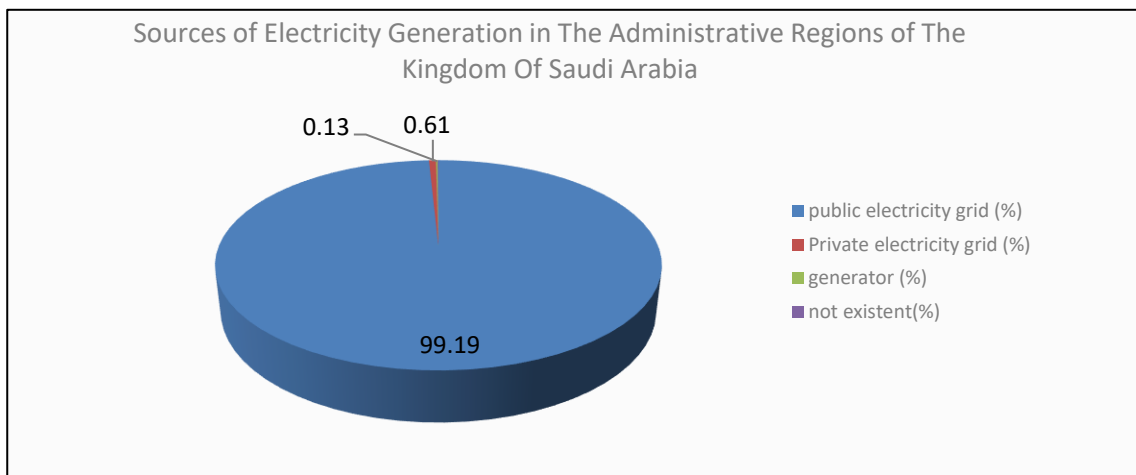


Some statistical indicators through household Energy Survey 2017

First: The most important results that related to the proportion of energy forms

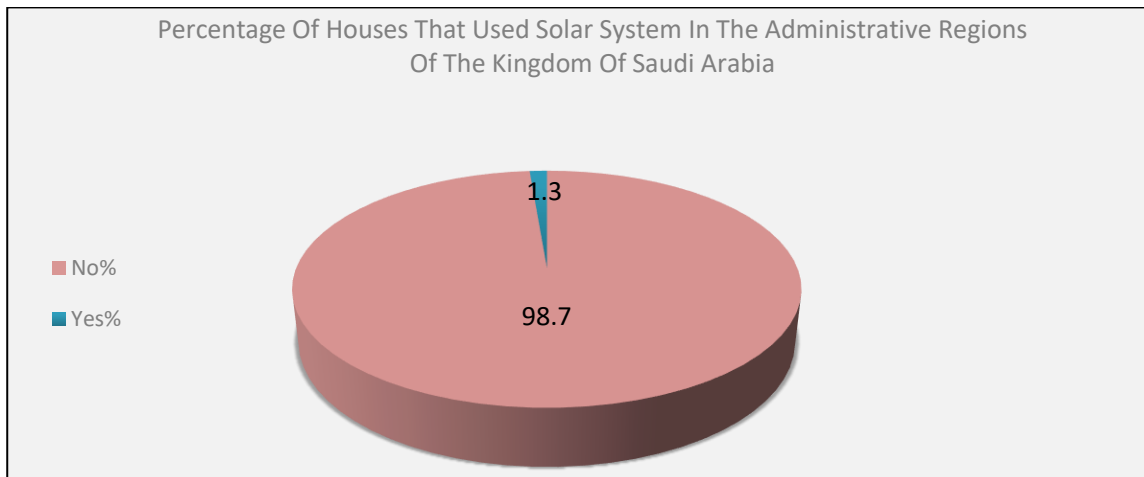
1. The survey results show that approximately (99.93%) households use electricity in the dwelling, around (99.19%) connected to the public electricity grid, while (0.61%) they are using private electricity grid, whereas the households consuming their own generator as a source of electricity by (0.13%).

Figure 1



2. The survey shows that around (1.3%) of households using solar energy in all regions of Saudi Arabia.

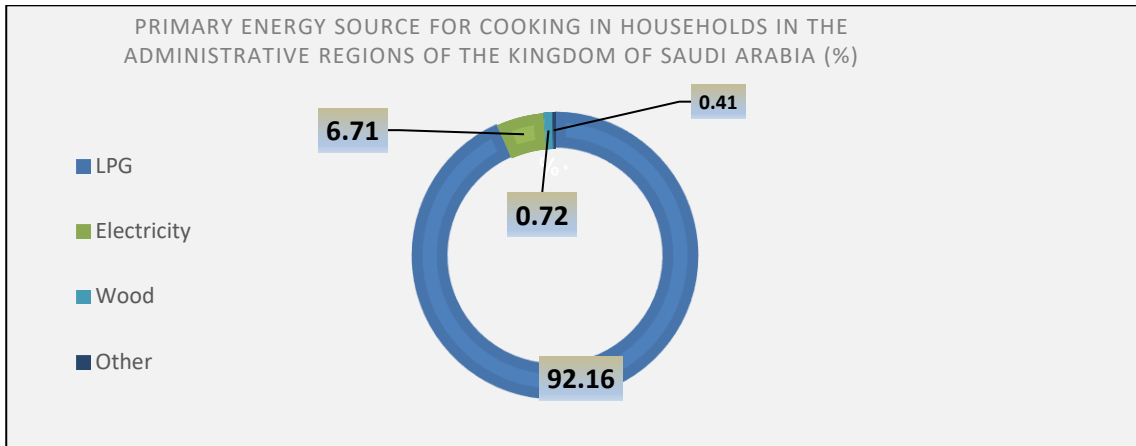
Figure 2





3. Diagram displays that about (92.16%) of households consuming gas as cooking, while (6.71%) of householders using electricity as the main fuel for cooking, although (0.72%) of households rely on fuelwood as the main source of fuel for their cooking.

Figure 3

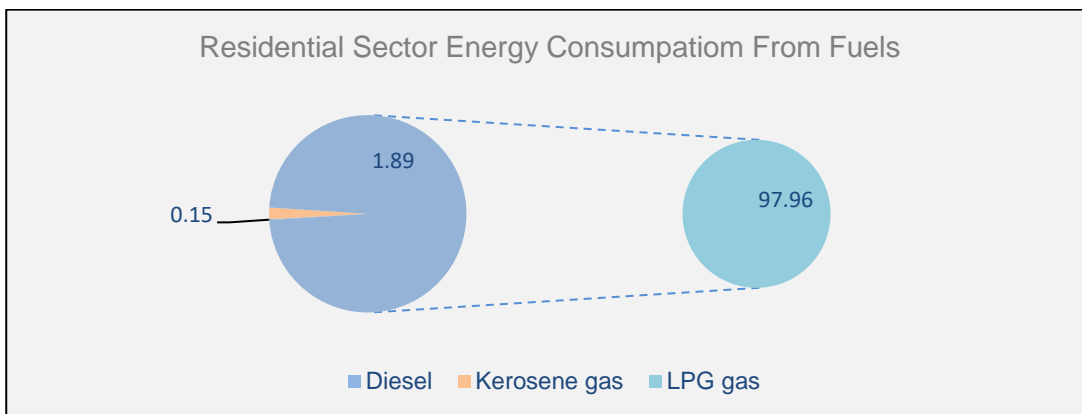


Second: The major important results that related to consumption:

- The survey results indicate that the consumption of fuel derived from diesel (fuel oil), kerosene and gas (LPG) in the kingdom consumed more than (1,011,191,458) for the residential sector.
 - The gas diesel oil consumed around (1,482,258) liter which is about (0.15%) from total fuel consumption.
 - The kerosene was consumed by (1.89%) of total fuel consumption for (19,148,276) liter.
 - The LPG gas consumed more than (990,560,924) liter which is represent (97.96%) from total fuel consumption.



Figure 4



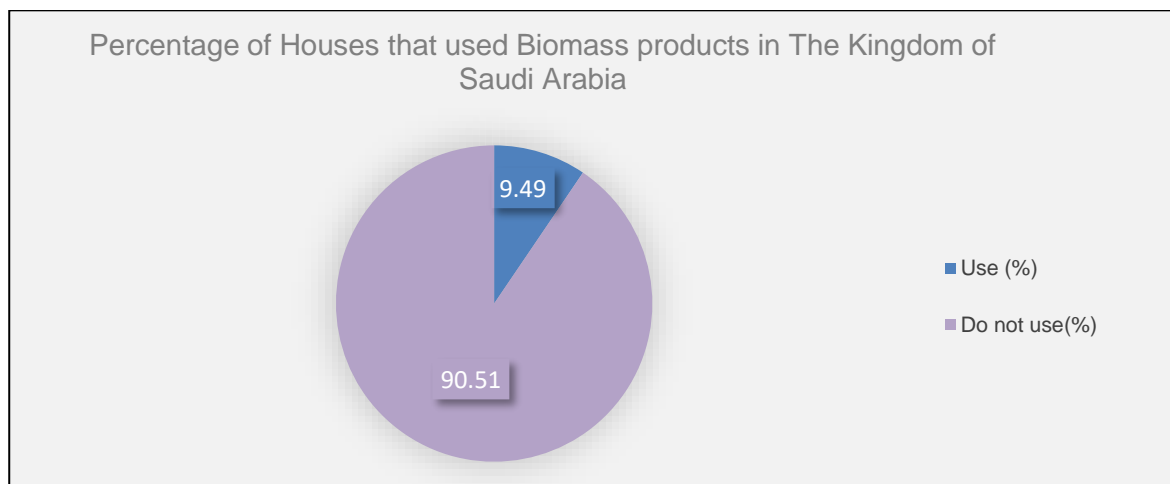
2. Consumption of electric power in Saudi Arabia for the residential sector is about (260,458.30) GW



Third: The significant results related to types of electric power:

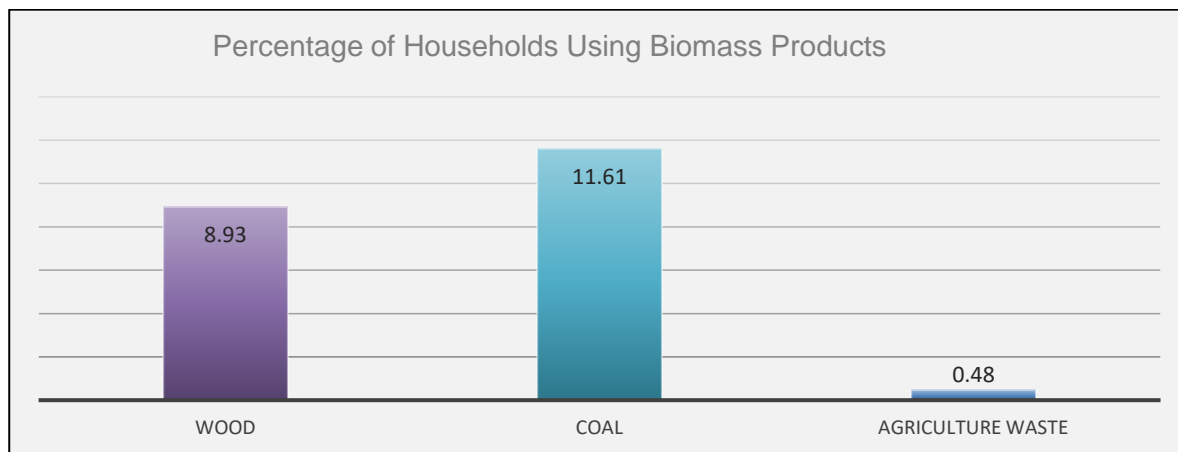
1. The survey shows that around (9.49%) of households using biomass products such as coal, firewood and agriculture waste.

Figure 5



2. The bar chart below indicates that biomass products (coal, firewood and agriculture waste) represented by (11.61%), (8.93%) and (0.48%) respectively for heating and cooking.

Figure 6





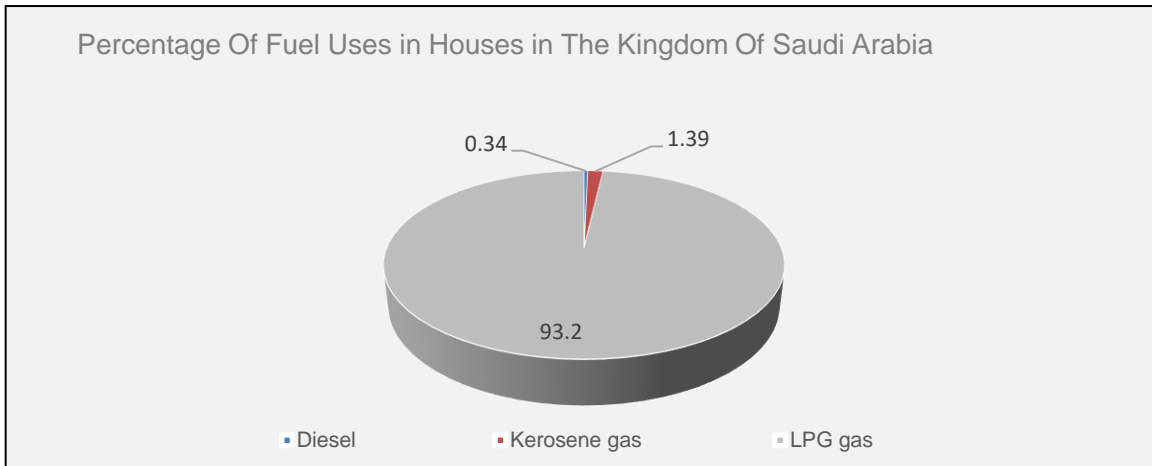
From the results below:

The consumption of desal in Saudi Arabia about (0.34%) for the residential sector.

The consumption of the kerosene gas in Saudi Arabia is approximately about (1.39%) for the residential sector.

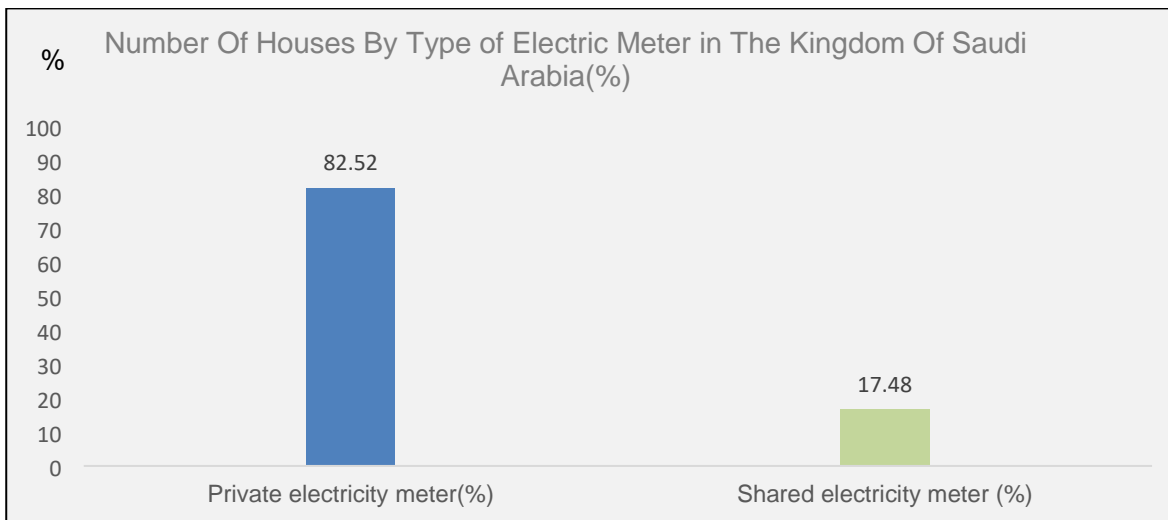
The LPG gas rich to around (93.20%) in all regions of Saudi Arabia.

Figure 7



The chart illustrated that the percentage of dwellings that use private electricity meter rich to (82.52%), whereas dwellings that use share electricity meter is about (17.48%).

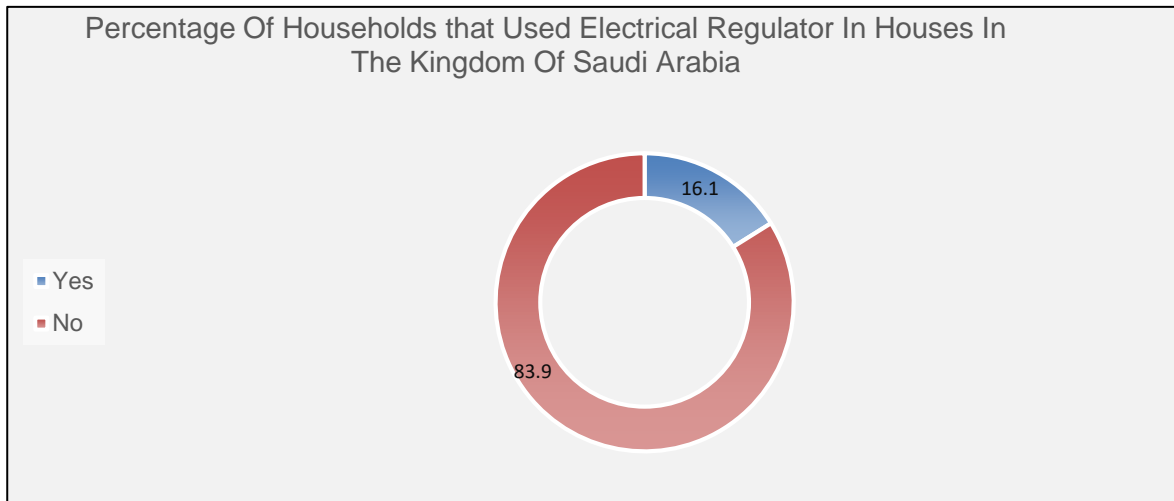
Figure 8





The diagram shows that, the percentage of household that own electrical regulator represented by (16.10%) in Saudi Arabia.

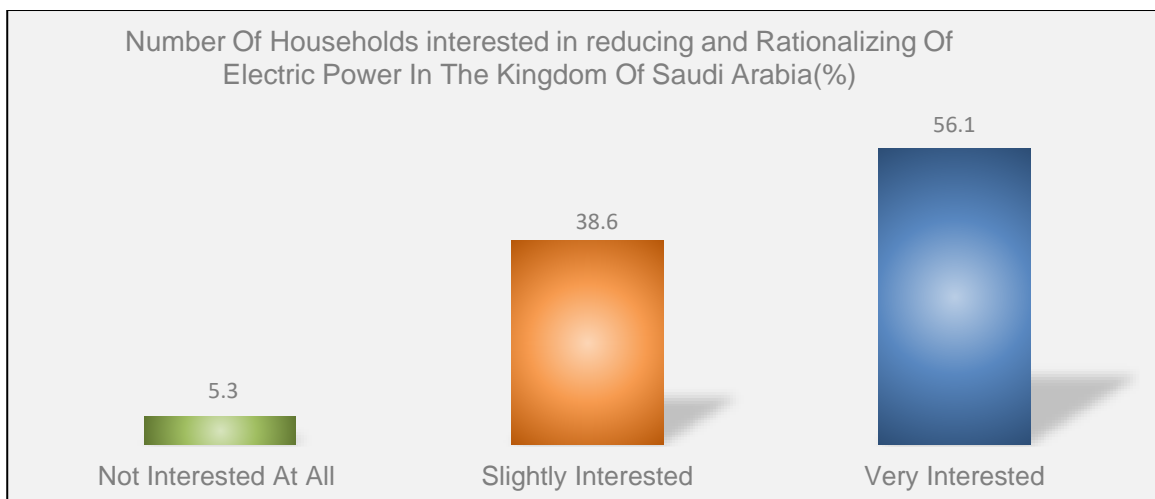
Figure 9



The most important results that related to electricity conservation:

-The result indicates that, (56.1%) from household are caring about electricity conservation, while (38.6%) from household are less interested to electricity conservation, however (5.3%) are not interested to electricity conservation.

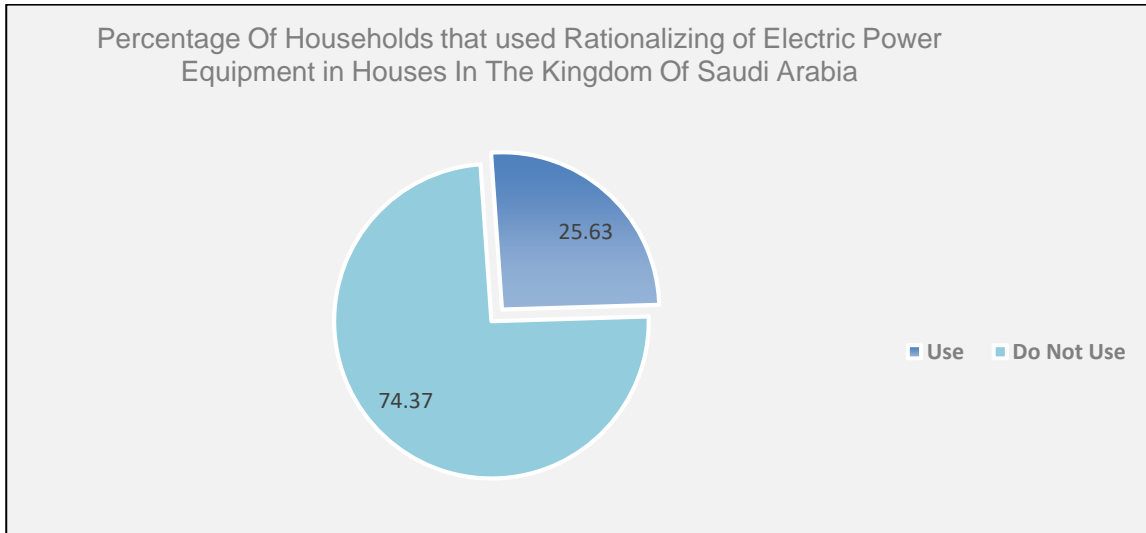
Figure 10





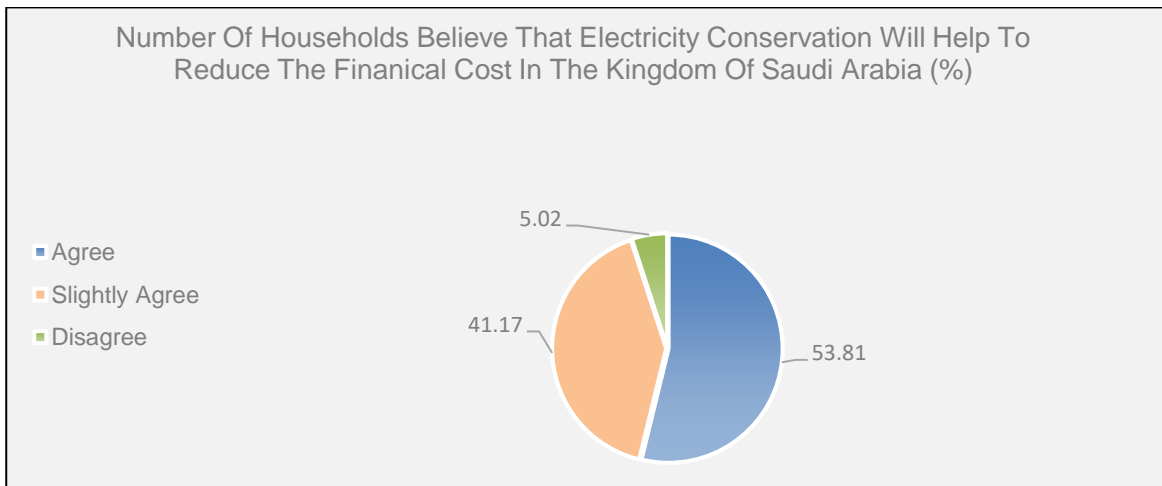
Moreover, the bar chart shows that (25.6%) from household are using equipment of elasticity conservation, while (74.4%) from household are not using equipment of elasticity conservation.

Figure 11



The result show that (53.81%) from household in Saudi Arabia believe that electricity conservation will help to reduce the financial cost, whereas (41.17%) from household partly believe that electricity conservation will help to reduce the financial cost, unlike (5.02%) they do not believe that electricity conservation will help to reduce the financial cost.

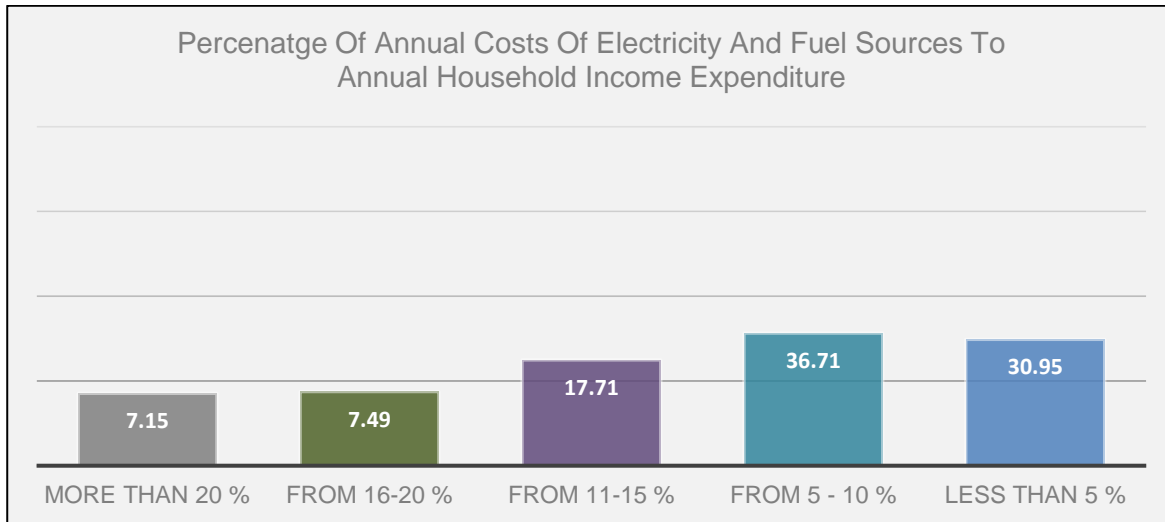
Figure 12





The survey result shows that (30.95%) from household spending less than (5%) from their income on electricity and fuel, while (36.71%) from household spending between (10-5%) from their income on electricity and fuel, whereas (17.71%) from household spending between (15-11%) from that, while (7.49%) from household spending between (20-16%) from their income on electricity and fuel, (7.15%) from household spending more than (20%) from their income on electricity and fuel.

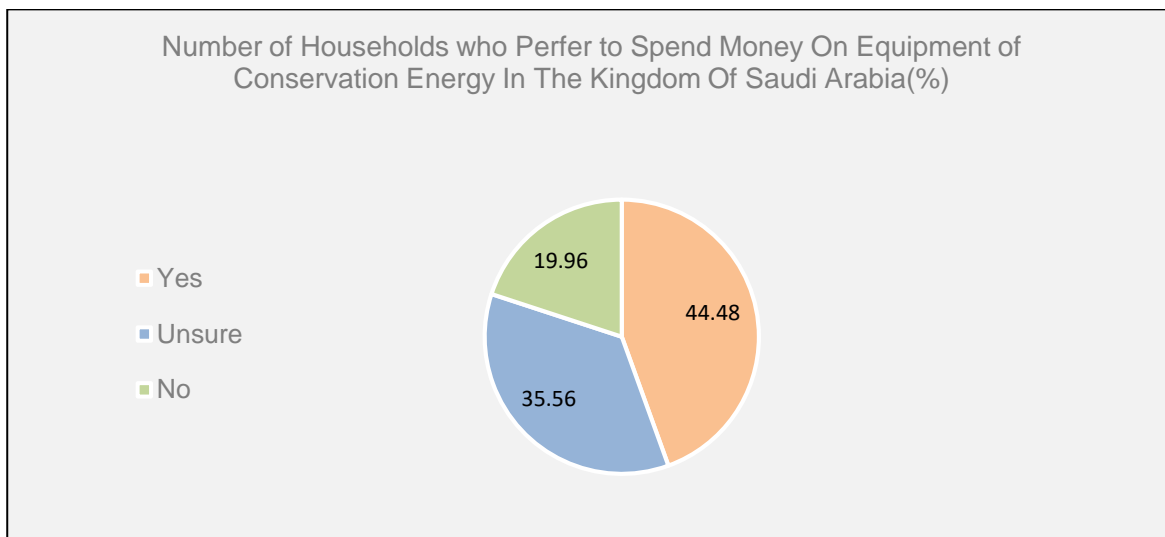
Figure 13



The result displays that (44.48%) from household strongly believe in spending money on electricity conservation, while (35.56%) from household slightly believe that, on the other hand (19.96%) they do not believe in spending money on electricity conservation.



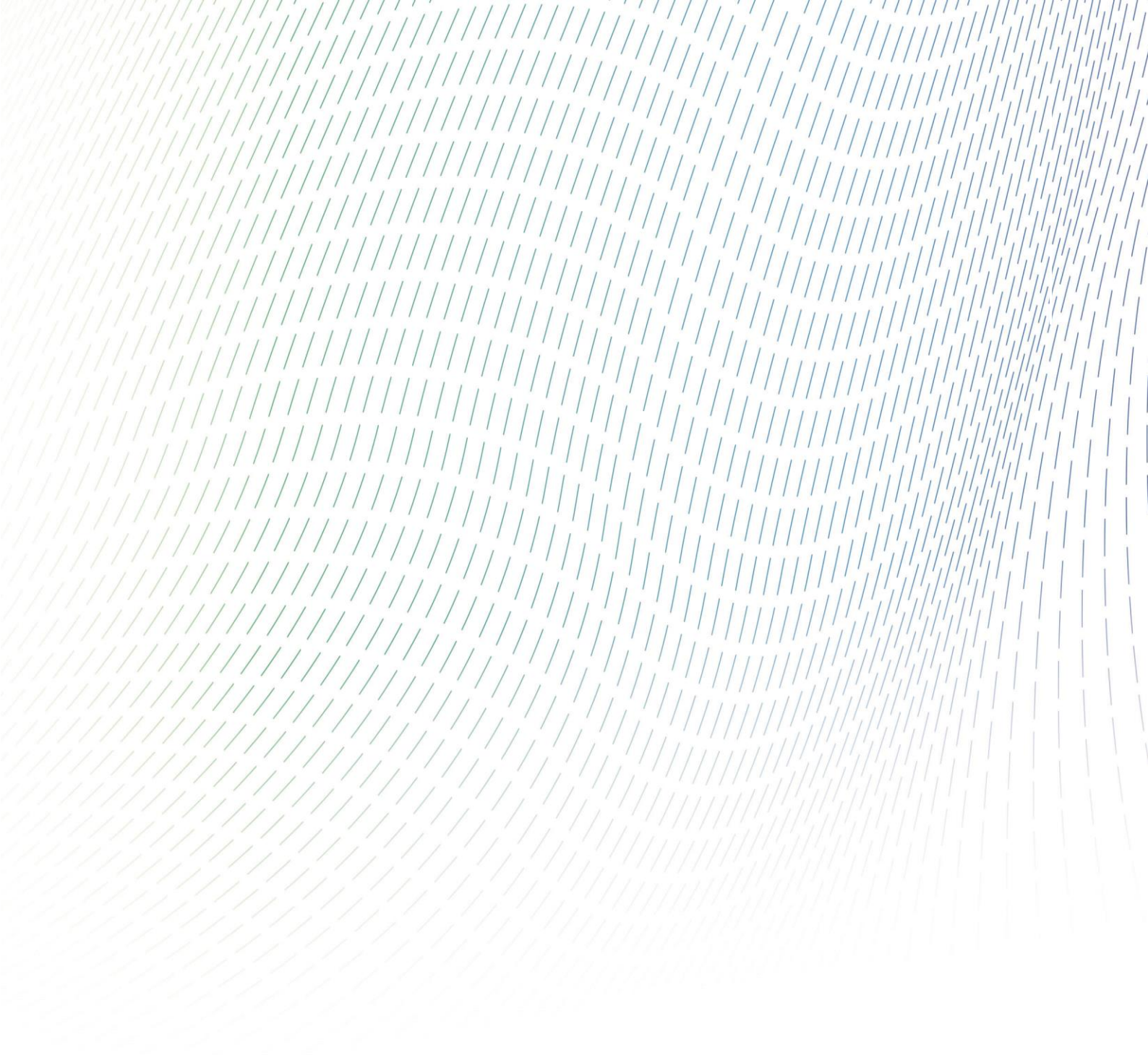
Figure 14





Tables





الهيئة العامة للإحصاء
General Authority for Statistics



Number of Houses Occupied by Households (Saudi and Non-Saudi) in the Administrative Regions

Table 1

S/N	Administrative Region	Number of Houses Occupied with Housholds		
		Saudi	Non-Saudi	Total
1	Riyadh	829,178	521,461	1,350,639
2	Makkah	872,330	623,062	1,495,392
3	Madinah	244,505	131,624	376,129
4	Al-Qassim	164,922	107,156	272,078
5	Eastern Region	499,461	259,455	758,916
6	Asir	298,787	100,182	398,969
7	Tabuk	117,342	49,503	166,845
8	Hail	78,215	33,611	111,826
9	Northern Borders	37,274	10,574	47,848
10	Jazan	174,765	45,473	220,238
11	Najran	66,463	39,678	106,141
12	Al-Bahah	65,733	17,654	83,387
13	Al-Jouf	56,500	22,002	78,502
Total of the Kingdom		3,505,475	1,961,435	5,466,910

Reference: Household Energy Survey 2017

Total Number and Area of (Cooled) House Components in the Administrative Regions

Table 2

S/N	Administrative Region	House Components											
		Guests Living Room		Bedrooms		Living Rooms		Kitchens		Bathrooms		Annexes	
		Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)
1	Riyadh	1,415,531	32,160,747	3,261,239	54,038,057	1,010,160	24,834,790	347,370	8,147,829	69,115	1,119,005	270,343	6,468,393
2	Makkah	1,572,391	33,239,774	2,918,722	49,261,455	862,569	17,312,453	396,386	8,444,485	78,521	2,357,603	24,293	809,183
3	Madinah	373,427	8,035,102	651,535	11,287,349	243,530	5,837,250	73,281	1,787,722	25,404	317,256	6,113	172,801
4	Al-Qassim	270,039	6,022,881	564,657	11,237,783	173,952	4,526,527	94,795	2,016,171	34,975	417,060	45,422	1,132,991
5	Eastern Region	773,467	17,860,323	1,895,294	32,944,682	692,574	15,575,247	425,565	7,951,019	121,004	1,707,827	61,709	1,778,596
6	Asir	339,981	8,133,591	588,147	11,009,546	135,197	3,030,201	27,205	685,266	2,885	10,521	2,036	54,301
7	Tabuk	140,340	3,309,297	337,394	5,378,605	92,153	2,001,162	15,366	411,167	15,988	223,245	2,474	105,353
8	Hail	133,020	3,646,108	273,157	5,688,014	75,302	2,118,594	16,711	412,514	16,001	109,224	8,635	280,637
9	Northern Borders	58,780	1,180,601	104,276	1,615,859	21,370	551,664	7,957	291,729	12,741	192,548	2,194	55,994
10	Jazan	236,470	4,814,590	430,610	6,936,204	186,312	4,034,102	118,662	1,880,087	146,323	867,431	4,784	79,319
11	Najran	98,046	2,555,391	221,336	3,881,632	55,384	1,121,870	5,305	127,001	3,716	74,879	1,532	31,914
12	Al-Bahah	64,705	1,655,825	118,488	2,234,252	33,953	848,682	16,414	361,786	11,963	116,911	562	11,522
13	Al-Jouf	88,074	1,962,152	162,333	2,799,862	42,049	1,143,664	11,112	384,947	17,159	179,726	1,804	78,822
Total of the Kingdom		5,564,271	124,576,382	11,527,188	198,313,300	3,624,505	82,936,206	1,556,129	32,901,723	555,795	7,693,236	431,901	11,059,826

Reference: Household Energy Survey 2017

Total Number and Area of (Heated) House Components in the Administrative Regions

Table 3

S/N	Administrative Region	House Components											
		Guests Living Room		Bedrooms		Living Rooms		Kitchens		Bathrooms		Annexes	
		Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)	Total number	Area (m ²)
1	Riyadh	617,310	15,316,281	1,434,026	25,882,277	464,561	11,960,341	139,749	3,369,117	135,791	1,082,241	156,052	4,405,789
2	Makkah	103,374	2,665,252	180,332	3,375,543	42,719	1,075,308	16,550	406,629	9,112	98,413	4,722	443,002
3	Madinah	87,848	2,547,992	139,574	3,120,646	36,515	1,318,562	11,115	483,820	34,660	243,065	1,368	34,197
4	Al-Qassim	173,626	4,166,681	378,682	7,950,689	110,281	2,942,191	65,606	1,398,302	42,481	508,498	33,073	867,841
5	Eastern Region	209,188	5,106,413	551,714	10,290,540	220,728	4,962,114	52,203	912,853	79,194	441,060	19,543	668,167
6	Asir	247,316	5,647,375	476,005	8,235,356	116,433	2,408,853	26,158	504,924	24,264	88,346	679	18,496
7	Tabuk	98,334	2,420,211	239,508	3,540,368	70,908	1,506,488	11,850	418,091	17,500	282,082	1,188	64,384
8	Hail	121,818	3,472,606	250,974	5,404,344	66,579	1,923,177	13,263	329,823	16,444	111,073	8,419	276,674
9	Northern Borders	52,412	1,201,433	84,623	1,563,732	19,441	562,778	5,949	290,175	10,088	165,273	2,109	58,085
10	Jazan	392	10,071	3,008	23,544	1,308	19,489	785	10,333	916	10,071	3,373	44,409
11	Najran	57,146	1,527,169	134,490	2,312,770	34,769	717,353	1,028	38,875	1,327	9,282	638	14,681
12	Al-Bahah	54,412	1,421,248	98,231	1,870,839	30,619	747,604	9,566	200,963	12,381	104,902	562	12,927
13	Al-Jouf	75,022	1,787,225	141,896	2,576,662	43,433	1,172,230	10,982	394,307	17,176	180,299	1,702	75,644
Total of the Kingdom		1,898,198	47,289,957	4,113,063	76,147,310	1,258,294	31,316,488	364,804	8,758,212	401,334	3,324,605	233,428	6,984,296

Reference: Household Energy Survey 2017

Percentage of Electricity Sources Used in Houses in the Administrative Regions

Table 4

S/N	Administrative Region	Source of Electricity				
		Public Network (%)	Private network (%)	Private Generator (%)	N/A (%)	Other (%)
1	Riyadh	98.61	1.38	0.01	0.00	100.00
2	Makkah	99.92	0.07	0.01	0.00	100.00
3	Madinah	99.63	0.14	0.05	0.18	100.00
4	Al-Qassim	99.98	0.01	0.01	0.00	100.00
5	Eastern Region	99.68	0.16	0.16	0.00	100.00
6	Asir	96.47	3.43	0.10	0.00	100.00
7	Tabuk	99.41	0.56	0.03	0.00	100.00
8	Hail	99.86	0.12	0.02	0.00	100.00
9	Northern Borders	99.17	0.81	0.02	0.00	100.00
10	Jazan	99.11	0.00	0.89	0.00	100.00
11	Najran	99.10	0.13	0.33	0.44	100.00
12	Al-Bahah	99.64	0.07	0.01	0.28	100.00
13	Al-Jouf	98.86	1.11	0.03	0.00	100.00
Total of the Kingdom		99.19	0.61	0.13	0.07	100.00

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Public Network) According to the Type of Houses in the Administrative Regions

Table 5

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	99.82	98.19	100.00	99.70	98.24	99.59
2	Makkah	100.00	100.00	100.00	100.00	100.00	99.86
3	Madinah	99.09	100.00	100.00	100.00	99.92	99.17
4	Al-Qassim	99.97	100.00	99.91	100.00	100.00	100.00
5	Eastern Region	99.62	99.20	98.45	99.89	99.85	100.00
6	Asir	99.28	90.94	81.70	99.48	97.95	100.00
7	Tabuk	99.58	100.00	100.00	100.00	99.44	98.55
8	Hail	99.63	99.97	100.00	99.85	100.00	100.00
9	Northern Borders	99.66	99.24	100.00	98.55	98.95	100.00
10	Jazan	98.89	99.86	94.34	99.76	99.69	100.00
11	Najran	99.42	99.09	100.00	99.44	99.66	93.94
12	Al-Bahah	98.77	100.00	100.00	99.96	99.85	99.53
13	Al-Jouf	100.00	100.00	100.00	100.00	98.13	98.79
Total of the Kingdom		99.59	98.98	98.18	99.79	99.38	99.19

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Public Network) According to Possession Type in the Administrative Regions

Table 6

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	98.64	98.38	99.46
2	Makkah	99.92	99.97	99.67
3	Madinah	99.46	99.81	99.56
4	Al-Qassim	99.99	99.99	100.00
5	Eastern Region	99.56	99.80	99.51
6	Asir	96.80	96.33	93.67
7	Tabuk	99.93	99.32	97.77
8	Hail	99.76	99.97	100.00
9	Northern Borders	99.44	98.82	100.00
10	Jazan	98.82	99.54	100.00
11	Najran	99.32	99.84	95.83
12	Al-Bahah	99.31	100.00	100.00
13	Al-Jouf	99.98	99.87	86.66
Total of the Kingdom		99.88	99.79	97.89

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Private Network) by Type of Housing Unit in the Administrative Regions

Table 7

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.00	1.96	0.00	0.30	1.76	0.39
2	Makkah	0.20	0.00	0.00	0.00	0.01	0.39
3	Madinah	0.30	0.00	0.00	0.00	0.08	0.00
4	Al-Qassim	0.00	0.00	0.09	0.00	0.00	0.00
5	Eastern Region	0.00	0.55	0.00	0.00	0.08	0.00
6	Asir	0.63	8.86	17.85	0.30	2.05	0.00
7	Tabuk	0.51	0.00	0.00	0.00	0.56	1.45
8	Hail	0.37	0.00	0.00	0.00	0.00	0.00
9	Northern Borders	0.28	0.72	0.00	1.45	1.05	0.00
10	Jazan	0.00	0.00	0.00	0.00	0.00	0.00
11	Najran	0.19	0.00	0.00	0.00	0.16	0.00
12	Al-Bahah	0.00	0.00	0.00	0.00	0.15	0.00
13	Al-Jouf	0.00	0.00	0.00	0.00	1.81	1.21
Total for the Kingdom		0.22	1.33	1.78	0.24	0.60	0.35

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Private Network) by Possession Type in the Administrative Regions

Table 8

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	1.35	1.62	0.46
2	Makkah	0.07	0.03	0.27
3	Madinah	0.11	0.19	0.00
4	Al-Qassim	0.00	0.01	0.00
5	Eastern Region	0.17	0.09	0.41
6	Asir	3.00	3.67	6.33
7	Tabuk	0.00	0.68	2.23
8	Hail	0.23	0.00	0.00
9	Northern Borders	0.53	1.16	0.00
10	Jazan	0.00	0.00	0.00
11	Najran	0.13	0.00	0.60
12	Al-Bahah	0.14	0.00	0.00
13	Al-Jouf	0.00	0.13	13.01
Total for the Kingdom		0.50	0.65	0.98

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Private Generator) by Type of Housing Unit in the Administrative Regions

Table 9

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.18	0.01	0.00	0.00	0.00	0.02
2	Makkah	0.01	0.00	0.00	0.00	0.00	0.14
3	Madinah	0.15	0.00	0.00	0.00	0.00	0.00
4	Al-Qassim	0.03	0.00	0.00	0.00	0.00	0.00
5	Eastern Region	0.38	0.25	1.55	0.11	0.07	0.00
6	Asir	0.09	0.20	0.45	0.21	0.00	0.00
7	Tabuk	0.08	0.00	0.00	0.00	0.00	0.00
8	Hail	0.00	0.03	0.00	0.17	0.00	0.00
9	Northern Borders	0.06	0.04	0.00	0.00	0.00	0.00
10	Jazan	1.13	0.14	5.66	0.24	0.31	0.00
11	Najran	0.39	0.91	0.00	0.56	0.18	0.00
12	Al-Bahah	0.00	0.00	0.00	0.04	0.00	0.00
13	Al-Jouf	0.00	0.00	0.00	0.00	0.06	0.00
Total for the Kingdom		0.23	0.11	0.59	0.09	0.03	0.02

Reference: Household Energy Survey 2017

Percentage of Electricity Source (Private Generator) by Possession Type in the Administrative Regions

Table 10

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.01	0.00	0.08
2	Makkah	0.01	0.00	0.06
3	Madinah	0.11	0.00	0.00
4	Al-Qassim	0.01	0.00	0.00
5	Eastern Region	0.27	0.11	0.08
6	Asir	0.20	0.00	0.00
7	Tabuk	0.07	0.00	0.00
8	Hail	0.01	0.03	0.00
9	Northern Borders	0.01	0.02	0.00
10	Jazan	1.18	0.46	0.00
11	Najran	0.55	0.16	0.00
12	Al-Bahah	0.01	0.00	0.00
13	Al-Jouf	0.02	0.00	0.33
Total for the Kingdom		0.19	0.04	0.05

Reference: Household Energy Survey 2017

Percentage of Housing Units With no Electricity Source by Type of Housing Unit in the Administrative Regions

Table 11

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.00	0.00	0.00	0.00	0.00	0.00
2	Makkah	0.00	0.00	0.00	0.00	0.00	0.00
3	Madinah	0.46	0.00	0.00	0.00	0.00	0.83
4	Al-Qassim	0.00	0.00	0.00	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.00	0.00	0.00	0.00
6	Asir	0.00	0.00	0.00	0.00	0.00	0.00
7	Tabuk	0.00	0.00	0.00	0.00	0.00	0.00
8	Hail	0.00	0.00	0.00	0.00	0.00	0.00
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.00	0.00	0.00	0.00	0.00	0.00
11	Najran	0.19	0.00	0.00	0.00	0.00	6.06
12	Al-Bahah	1.23	0.00	0.00	0.00	0.00	0.47
13	Al-Jouf	0.00	0.00	0.00	0.00	0.00	0.00
Total for the Kingdom		0.11	0.00	0.00	0.00	0.00	0.47

Reference: Household Energy Survey 2017

Percentage of Housing Units With no Electricity Source by Possession Type in the Administrative Regions

Table 12

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.00	0.00	0.00
2	Makkah	0.00	0.00	0.00
3	Madinah	0.32	0.00	0.44
4	Al-Qassim	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.00
6	Asir	0.00	0.00	0.00
7	Tabuk	0.00	0.00	0.00
8	Hail	0.00	0.00	0.00
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.00	0.00	0.00
11	Najran	0.00	0.00	3.75
12	Al-Bahah	0.54	0.00	0.00
13	Al-Jouf	0.00	0.00	0.00
Total for the Kingdom		0.05	0.00	0.24

Reference: Household Energy Survey 2017

Percentage of Housing Units Which Use Solar Energy in the Administrative Region

Table 13

S/N	Administrative Region	Total Number of Units	Yes (%)	No (%)	Total (%)
1	Riyadh	1,350,639	1.17	98.83	100.00
2	Makkah	1,495,392	1.23	98.77	100.00
3	Madinah	376,129	1.00	99.00	100.00
4	Al-Qassim	272,078	0.88	99.12	100.00
5	Eastern Region	758,916	1.88	98.12	100.00
6	Asir	398,969	1.42	98.58	100.00
7	Tabuk	166,845	0.79	99.21	100.00
8	Hail	111,826	2.84	97.16	100.00
9	Northern Borders	47,848	1.16	98.84	100.00
10	Jazan	220,238	0.96	99.04	100.00
11	Najran	106,141	1.87	98.13	100.00
12	Al-Bahah	83,387	0.77	99.23	100.00
13	Al-Jouf	78,502	0.85	99.15	100.00
Total for the Kingdom		5,466,910	1.30	98.70	100.00

Reference: Household Energy Survey 2017



Percentage of Fuel Used in the Unit for Cooking in the Administrative Regions

Table 14

S/N	Administrative Region	Fuel Used for Cooking				
		Gas (%)	Electricity (%)	Wood(%)	Other(%)	Total (%)
1	Riyadh	90.95	8.77	0.07	0.21	100.00
2	Makkah	94.90	4.58	0.34	0.18	100.00
3	Madinah	91.89	6.56	0.49	1.06	100.00
4	Al-Qassim	97.21	2.64	0.03	0.12	100.00
5	Eastern Region	77.12	21.39	0.02	1.47	100.00
6	Asir	94.08	4.92	1.00	0.00	100.00
7	Tabuk	97.13	2.21	0.44	0.22	100.00
8	Hail	94.86	4.44	0.58	0.12	100.00
9	Northern Borders	97.84	2.11	0.05	0.00	100.00
10	Jazan	93.64	0.82	5.23	0.31	100.00
11	Najran	91.57	5.09	3.28	0.06	100.00
12	Al-Bahah	98.63	0.57	0.63	0.17	100.00
13	Al-Jouf	95.80	3.18	0.37	0.65	100.00
Total for the Kingdom		92.16	6.71	0.72	0.41	100.00

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Gas) by Type of Unit in the Administrative Regions

Table 15

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	98.84	91.35	99.71	93.89	88.80	89.49
2	Makkah	97.32	83.84	99.17	91.31	94.94	93.63
3	Madinah	98.01	65.85	96.09	93.12	92.64	68.34
4	Al-Qassim	99.71	95.89	99.53	95.65	97.04	100.00
5	Eastern Region	94.09	64.05	84.11	71.35	80.63	61.59
6	Asir	95.20	93.82	96.74	90.70	94.67	91.43
7	Tabuk	98.27	98.44	100.00	98.20	95.88	98.33
8	Hail	94.87	93.92	98.68	95.05	94.82	96.18
9	Northern Borders	97.48	98.43	99.38	99.28	97.18	98.80
10	Jazan	90.77	91.81	96.34	92.06	97.46	98.00
11	Najran	90.33	91.55	87.48	90.29	92.03	99.63
12	Al-Bahah	99.02	97.33	99.45	99.67	98.22	99.47
13	Al-Jouf	98.48	98.61	97.55	99.34	97.31	79.09
Total for the Kingdom		95.86	87.17	96.63	91.89	92.12	89.08

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Gas) by Possession Type in the Administrative Regions

Table 16

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	94.28	90.10	86.89
2	Makkah	92.37	96.06	96.03
3	Madinah	94.74	91.40	82.53
4	Al-Qassim	96.54	97.18	99.43
5	Eastern Region	71.06	85.69	56.63
6	Asir	93.01	95.19	94.18
7	Tabuk	97.48	96.91	96.82
8	Hail	93.73	95.86	97.57
9	Northern Borders	98.47	98.99	85.47
10	Jazan	92.16	95.86	96.77
11	Najran	89.21	96.70	82.88
12	Al-Bahah	98.92	97.81	99.10
13	Al-Jouf	98.77	95.03	85.93
Total for the Kingdom		91.88	93.52	86.61

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Electricity) by Type of Unit in the Administrative Regions

Table 17

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	1.11	8.47	0.29	5.97	10.85	9.73
2	Makkah	1.14	16.06	0.54	8.10	4.86	5.52
3	Madinah	0.29	34.15	1.45	6.88	7.17	15.83
4	Al-Qassim	0.29	4.11	0.47	4.26	2.53	0.00
5	Eastern Region	5.86	35.84	15.88	28.54	19.06	4.65
6	Asir	1.11	4.94	2.63	7.95	5.24	8.57
7	Tabuk	0.41	1.56	0.00	1.80	3.68	1.67
8	Hail	3.85	5.68	1.32	4.53	4.88	2.59
9	Northern Borders	2.44	1.39	0.62	0.72	2.82	1.20
10	Jazan	0.46	1.39	1.08	2.48	0.77	0.00
11	Najran	3.15	6.55	5.63	5.65	7.01	0.10
12	Al-Bahah	0.00	0.29	0.00	0.00	1.15	0.00
13	Al-Jouf	0.89	1.07	1.63	0.66	2.28	14.85
Total for the Kingdom		1.52	12.23	2.46	7.34	7.51	5.73

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Electricity) by Possession Type in the Administrative Regions

Table 18

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	5.47	9.61	12.79
2	Makkah	6.57	3.66	3.79
3	Madinah	4.08	7.91	10.48
4	Al-Qassim	3.46	2.42	0.57
5	Eastern Region	28.85	14.00	32.36
6	Asir	5.07	4.70	5.82
7	Tabuk	1.49	2.98	1.28
8	Hail	5.34	3.65	2.29
9	Northern Borders	1.44	1.00	14.53
10	Jazan	0.97	0.62	0.00
11	Najran	5.81	1.47	15.65
12	Al-Bahah	0.08	1.36	0.68
13	Al-Jouf	0.85	3.55	12.36
Total for the Kingdom		6.64	5.92	10.88

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Wood) by Type of Unit in the Administrative Regions

Table 19

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.04	0.17	0.00	0.12	0.03	0.00
2	Makkah	1.27	0.02	0.29	0.59	0.04	0.46
3	Madinah	1.38	0.00	2.46	0.00	0.00	0.00
4	Al-Qassim	0.00	0.00	0.00	0.09	0.06	0.00
5	Eastern Region	0.01	0.09	0.00	0.11	0.00	0.00
6	Asir	3.69	1.24	0.63	1.33	0.09	0.00
7	Tabuk	1.32	0.00	0.00	0.00	0.00	0.00
8	Hail	1.28	0.40	0.00	0.42	0.07	0.00
9	Northern Borders	0.08	0.18	0.00	0.00	0.00	0.00
10	Jazan	8.65	6.12	2.52	4.42	1.43	0.00
11	Najran	6.43	1.72	6.78	4.02	0.95	0.25
12	Al-Bahah	0.98	2.30	0.55	0.25	0.31	0.53
13	Al-Jouf	0.63	0.32	0.82	0.00	0.40	0.00
Total for the Kingdom		2.51	0.56	0.90	0.71	0.15	0.15

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Wood) by Possession Type in the Administrative Regions

Table 20

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.16	0.03	0.02
2	Makkah	0.83	0.13	0.00
3	Madinah	1.05	0.00	0.44
4	Al-Qassim	0.00	0.08	0.00
5	Eastern Region	0.06	0.01	0.00
6	Asir	1.91	0.11	0.00
7	Tabuk	1.03	0.00	0.22
8	Hail	0.93	0.16	0.14
9	Northern Borders	0.09	0.01	0.00
10	Jazan	6.50	3.28	3.23
11	Najran	4.87	1.82	1.40
12	Al-Bahah	0.97	0.30	0.22
13	Al-Jouf	0.38	0.41	0.08
Total for the Kingdom		1.39	0.29	0.18

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Other) by Type of Unit in the Administrative Regions

Table 21

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.01	0.01	0.00	0.02	0.32	0.78
2	Makkah	0.27	0.08	0.00	0.00	0.16	0.39
3	Madinah	0.32	0.00	0.00	0.00	0.19	15.83
4	Al-Qassim	0.00	0.00	0.00	0.00	0.37	0.00
5	Eastern Region	0.04	0.02	0.01	0.00	0.31	33.76
6	Asir	0.00	0.00	0.00	0.02	0.00	0.00
7	Tabuk	0.00	0.00	0.00	0.00	0.44	0.00
8	Hail	0.00	0.00	0.00	0.00	0.23	1.23
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.12	0.68	0.06	1.04	0.34	2.00
11	Najran	0.09	0.18	0.11	0.04	0.01	0.02
12	Al-Bahah	0.00	0.08	0.00	0.08	0.32	0.00
13	Al-Jouf	0.00	0.00	0.00	0.00	0.01	6.06
Total for the Kingdom		0.11	0.04	0.01	0.06	0.22	5.04

Reference: Household Energy Survey 2017

Percentage of Fuel Used in the Unit for Cooking (Other) by Possession Type in the Administrative Regions

Table 22

S/N	Administrative Region	Possession type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.09	0.26	0.30
2	Makkah	0.23	0.15	0.18
3	Madinah	0.13	0.69	6.55
4	Al-Qassim	0.00	0.32	0.00
5	Eastern Region	0.03	0.30	11.01
6	Asir	0.01	0.00	0.00
7	Tabuk	0.00	0.11	1.68
8	Hail	0.00	0.33	0.00
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.37	0.24	0.00
11	Najran	0.11	0.01	0.07
12	Al-Bahah	0.03	0.53	0.00
13	Al-Jouf	0.00	1.01	1.63
Total for the Kingdom		0.09	0.27	2.33

Reference: Household Energy Survey 2017

Percentage of Housing Units Which Use Biomass in the Administrative Regions

Table 23

S/N	Administrative Region	Number of Units	Yes (%)	No (%)	Total
1	Riyadh	1,350,639	6.49	93.51	100.00
2	Makkah	1,495,392	4.71	95.29	100.00
3	Madinah	376,129	3.88	96.12	100.00
4	Al-Qassim	272,078	8.88	91.12	100.00
5	Eastern Region	758,916	7.51	92.49	100.00
6	Asir	398,969	7.55	92.45	100.00
7	Tabuk	166,845	3.90	96.10	100.00
8	Hail	111,826	11.45	88.55	100.00
9	Northern Borders	47,848	6.87	93.13	100.00
10	Jazan	220,238	14.80	85.20	100.00
11	Najran	106,141	22.85	77.15	100.00
12	Al-Bahah	83,387	13.23	86.77	100.00
13	Al-Jouf	78,502	11.27	88.73	100.00
Total of the Kingdom		5,466,910	9.49	90.51	100.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Administrative Regions

Table 24

S/N	Administrative Region	Number of Units	Wood		Coal		Agricultural Waste	
			Yes (%)	No (%)	Yes (%)	No (%)	Yes (%)	No (%)
1	Riyadh	1,350,639	10.55	89.45	8.86	91.14	0.07	99.93
2	Makkah	1,495,392	2.72	97.28	11.36	88.64	0.04	99.96
3	Madinah	376,129	4.35	95.65	6.24	93.76	1.06	98.94
4	Al-Qassim	272,078	19.29	80.71	6.74	93.26	0.60	99.40
5	Eastern Region	758,916	3.35	96.65	19.19	80.81	0.00	100.00
6	Asir	398,969	14.82	85.18	7.66	92.34	0.18	99.82
7	Tabuk	166,845	8.13	91.87	3.53	96.47	0.05	99.95
8	Hail	111,826	15.21	84.79	17.19	82.81	1.95	98.05
9	Northern Borders	47,848	4.19	95.81	15.64	84.36	0.23	99.77
10	Jazan	220,238	28.46	71.54	11.73	88.27	4.22	95.78
11	Najran	106,141	36.75	63.25	25.72	74.28	6.08	93.92
12	Al-Bahah	83,387	10.83	89.17	28.60	71.40	0.26	99.74
13	Al-Jouf	78,502	13.45	86.55	20.16	79.84	0.20	99.80
Total of the Kingdom		5,466,910	8.93	91.07	11.61	88.39	0.48	99.52

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Kingdom

Table 25

	Number of Units	Type of Usage	Biomass Used		
			Wood	Coal	Agricultural Waste
Total of the Kingdom	5,466,910	cooking/ BBQ	3.25	9.28	0.27
		Heating	6.47	3.27	0.25
		Other	0.03	0.44	0.02

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in Riyadh

Table 25-1

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
1	Riyadh	1,350,639	cooking/ BBQ	0.78	8.05	0.02
			Heating	10.14	1.73	0.05
			Other	0.00	0.00	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in Makkah

Table 25-2

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
2	Makkah	1,495,392	cooking/ BBQ	1.56	6.93	0.04
			Heating	1.23	4.02	0.04
			Other	0.00	1.26	0.02

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Madinah

Table 25-3

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
3	Madinah	376,129	cooking/ BBQ	1.51	5.56	0.36
			Heating	3.58	3.02	0.88
			Other	0.00	0.13	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Al-Qassim

Table 25-4

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
4	Al-Qassim	272,078	cooking/ BBQ	0.27	5.28	0.16
			Heating	19.12	1.69	0.43
			Other	0.00	0.00	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Eastern Region

Table 25-5

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
5	Eastern Region	758,916	cooking/ BBQ	0.25	18.49	0.00
			Heating	3.17	1.77	0.00
			Other	0.03	0.08	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Asir

Table 25-6

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
6	Asir	398,969	cooking/ BBQ	6.68	2.94	0.00
			Heating	9.20	4.80	0.00
			Other	0.18	0.18	0.18

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Tabuk

Table 25-7

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
7	Tabuk	166,845	cooking/ BBQ	1.95	2.17	0.05
			Heating	7.67	1.65	0.05
			Other	0.11	0.00	0.05

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Hail

Table 25-8

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
8	Hail	111,826	cooking/ BBQ	5.57	14.16	0.28
			Heating	14.75	5.93	1.67
			Other	0.06	0.06	0.05

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Northern Borders

Table 25-9

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
9	Northern Borders	47,848	cooking/ BBQ	0.42	15.17	0.23
			Heating	4.07	4.57	0.06
			Other	0.00	0.06	0.11

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Jazan

Table 25-10

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
10	Jazan	220,238	cooking/ BBQ	28.46	9.77	4.22
			Heating	0.00	2.55	0.23
			Other	0.00	0.12	0.05

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Najran

Table 25-11

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
11	Najran	106,141	cooking/ BBQ	25.07	21.75	1.99
			Heating	26.88	12.00	4.72
			Other	0.00	0.12	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Al-Bahah

Table 25-12

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
12	Al-Bahah	83,387	cooking/ BBQ	8.77	27.54	0.26
			Heating	5.53	12.67	0.26
			Other	0.00	0.09	0.09

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Housing Units Which Use Biomass (Wood, Coal and Agricultural Waste) in the Al-Jouf

Table 25-13

S/N	Administrative Region	Number of Units	Type of Usage	Biomass Used		
				Wood	Coal	Agricultural Waste
13	Al-Jouf	78,502	cooking/ BBQ	3.47	14.82	0.05
			Heating	12.64	8.63	0.20
			Other	0.58	3.69	0.00

Reference: Household Energy Survey 2017

*usage of wood, coal and agricultural waste in (2016)

Percentage of Households Who Use Diesel (Fuel oil) in the Administrative Regions

Table 26

S/N	Administrative Region	Number of Units	Yes (%)	No (%)	Total (%)
1	Riyadh	1,350,639	0.08	99.92	100.00
2	Makkah	1,495,392	0.10	99.90	100.00
3	Madinah	376,129	0.09	99.91	100.00
4	Al-Qassim	272,078	0.05	99.95	100.00
5	Eastern Region	758,916	0.55	99.45	100.00
6	Asir	398,969	0.79	99.21	100.00
7	Tabuk	166,845	0.06	99.94	100.00
8	Hail	111,826	0.12	99.88	100.00
9	Northern Borders	47,848	0.11	99.89	100.00
10	Jazan	220,238	2.97	97.03	100.00
11	Najran	106,141	1.03	98.97	100.00
12	Al-Bahah	83,387	0.09	99.91	100.00
13	Al-Jouf	78,502	0.12	99.88	100.00
Total of the Kingdom		5,466,910	0.34	99.66	100

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Consumption of Diesel (Fuel Oil) in Housing Units by Type of Usage in the Administrative Regions

Table 27

S/N	Administrative Region	Type of Usage	Units Using Diesel Percentage	Total Volume Consumed (Litre)	
				Winter	Rest of the Year
1	Riyadh	Electricity	0.08	118,340	87,648
2	Makkah		0.10	89,524	158,161
3	Madinah		0.09	51,638	119,690
4	Al-Qassim		0.05	28,389	49,680
5	Eastern Region		0.55	106,713	114,635
6	Asir		0.79	67,197	103,001
7	Tabuk		0.06	4,948	11,875
8	Hail		0.12	71,295	4,214
9	Northern Borders		0.11	21,244	2,631
10	Jazan		2.97	44,024	89,124
11	Najran		1.03	31,494	55,758
12	Al-Bahah		0.09	1,405	1,405
13	Al-Jouf		0.12	22,693	25,532
Total of the Kingdom			0.34	658,904	823,354

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Usage of Diesel (Fuel Oil) in Housing Units by Type of Used Equipment and Weekly Average Operation Hours in the Administrative Regions

Table 28

S/N	Administrative Region	Type of Usage	Equipment Used	Total Number of Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
1	Riyadh	Electricity	Private Generator	1,423	27	25
2	Makkah			4,520	47	54
3	Madinah			342	42	35
4	Al-Qassim			284	36	42
5	Eastern Region			5,386	42	35
6	Asir			4,412	28	14
7	Tabuk			199	14	24
8	Hail			133	42	21
9	Northern Borders			454	49	35
10	Jazan			4,001	35	28
11	Najran			1,811	28	39
12	Al-Bahah			170	21	14
13	Al-Jouf			296	40	55
Total of the Kingdom				23,431	37	33

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Percentage of Households Who Use Gas (Kerosene) in the Administrative Regions

Table 29

S/N	Administrative Region	Number of Units	Yes (%)	No (%)	Total (%)
1	Riyadh	1,350,639	0.90	99.10	100.00
2	Makkah	1,495,392	0.07	99.93	100.00
3	Madinah	376,129	0.50	99.50	100.00
4	Al-Qassim	272,078	0.87	99.13	100.00
5	Eastern Region	758,916	0.58	99.42	100.00
6	Asir	398,969	2.30	97.70	100.00
7	Tabuk	166,845	1.61	98.39	100.00
8	Hail	111,826	8.68	91.32	100.00
9	Northern Borders	47,848	34.97	65.03	100.00
10	Jazan	220,238	0.59	99.41	100.00
11	Najran	106,141	0.33	99.67	100.00
12	Al-Bahah	83,387	0.43	99.57	100.00
13	Al-Jouf	78,502	17.65	82.35	100.00
Total of the Kingdom		5,466,910	1.39	98.61	100.00

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Consumption of Gas (Kerosene) in Housing Units in the Administrative Regions

Table 30

S/N	Administrative Region	Total Number of Units	Percentage of Units Using Diesel	Total Volume Consumed (Litre)	
				Winter	Rest of the Year
1	Riyadh	1,350,639	0.90	1,479,783	151,500
2	Makkah	1,495,392	0.07	19,876	66,343
3	Madinah	376,129	0.50	46,800	59,140
4	Al-Qassim	272,078	0.87	402,693	5,678
5	Eastern Region	758,916	0.58	2,123,508	18,407
6	Asir	398,969	2.30	160,462	387,695
7	Tabuk	166,845	1.61	74,219	37,802
8	Hail	111,826	8.68	2,201,199	217,295
9	Northern Borders	47,848	34.97	5,720,880	665,806
10	Jazan	220,238	0.59	21,451	29,953
11	Najran	106,141	0.33	29,671	29,671
12	Al-Bahah	83,387	0.43	76,580	78,688
13	Al-Jouf	78,502	17.65	4,801,648	241,528
Total of the Kingdom		5,466,910	1.38	17,158,770	1,989,506

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in the Kingdom

Table 31

	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
				Winter	Rest of the Year
Total of the Kingdom	Heating	Portable Gas Heater	116,364	46	5
	Water Heating	Gas Babur	1,840	67	6
	Cooking	Gas Babur	9,931	10	11

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Riyadh

Table 31-1

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
1	Riyadh	Heating	Portable Gas Heater	15,228	43	5
		Water Heating	Gas Babur	219	84	15
		Cooking	Gas Babur	0	0	0

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Makkah

Table 31-2

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
2	Makkah	Heating	Portable Gas Heater	0	0	0
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	2,256	14	14

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Madinah

Table 31-3

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
3	Madinah	Heating	Portable Gas Heater	3,565	35	12
		Water Heating	Gas Babur	342	47	13
		Cooking	Gas Babur	846	12	12

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Al-Qassim

Table 31-4

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
4	Al-Qassim	Heating	Portable Gas Heater	3,691	25	0
		Water Heating	Gas Babur	142	4	3
		Cooking	Gas Babur	195	3	3

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Eastern Region

Table 31-5

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
5	Eastern Region	Heating	Portable Gas Heater	9,634	73	2
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	0	0	0

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Asir

Table 31-6

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
6	Asir	Heating	Portable Gas Heater	5,614	7	5
		Water Heating	Gas Babur	353	4	4
		Cooking	Gas Babur	3,747	8	8

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Tabuk

Table 31-7

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
7	Tabuk	Heating	Portable Gas Heater	2,771	49	15
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	0	0	0

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Hail

Table 31-8

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
8	Hail	Heating	Portable Gas Heater	19,373	56	4
		Water Heating	Gas Babur	133	80	16
		Cooking	Gas Babur	277	33	39

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Northern Borders

Table 31-9

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
9	Northern Borders	Heating	Portable Gas Heater	30,936	43	5
		Water Heating	Gas Babur	158	19	1
		Cooking	Gas Babur	525	8	5

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Jazan

Table 31-10

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
10	Jazan	Heating	Portable Gas Heater	0	0	0
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	1,700	6	10

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Najran

Table 31-11

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
11	Najran	Heating	Portable Gas Heater	0	0	0
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	71	2	2

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Al-Bahah

Table 31-12

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
12	Al-Bahah	Heating	Portable Gas Heater	703	29	11
		Water Heating	Gas Babur	0	0	0
		Cooking	Gas Babur	0	0	0

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Usage of Gas (Kerosene) in Housing Units by the Average of Operation Hours in Al-Jouf

Table 31-13

S/N	Administrative Region	Usage Type	Used Equipment Type	Number of Used Equipment	Weekly Average of Operation hours	
					Winter	Rest of the Year
13	Al-Jouf	Heating	Portable Gas Heater	24,850	57	5
		Water Heating	Gas Babur	493	66	11
		Cooking	Gas Babur	312	16	15

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Percentage of Households Who Use (LPG) Butane Gas in the Administrative Regions

Table 32

S/N	Administrative Region	Yes (%)	No (%)	Total (%)
1	Riyadh	91.90	8.10	100.00
2	Makkah	97.19	2.81	100.00
3	Madinah	91.91	8.09	100.00
4	Al-Qassim	98.98	1.02	100.00
5	Eastern Region	77.09	22.91	100.00
6	Asir	99.24	0.76	100.00
7	Tabuk	99.03	0.97	100.00
8	Hail	99.10	0.90	100.00
9	Northern Borders	98.94	1.06	100.00
10	Jazan	99.88	0.12	100.00
11	Najran	97.96	2.04	100.00
12	Al-Bahah	99.46	0.54	100.00
13	Al-Jouf	97.38	2.62	100.00
Total of the Kingdom		93.20	6.80	100.00

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Consumption of (LPG) Butane Gas in Houses According to By Type (Cylinder/Tank) in the Administrative Regions

Table 33

S/N	Administrative Region	Percentage of Households Using LPG	Cylinder	Tank
1	Riyadh	91.90	176,220,817	116,616,311
2	Makkah	97.19	210,399,627	62,023,412
3	Madinah	91.91	51,862,932	8,169,572
4	Al-Qassim	98.98	28,400,058	27,670,513
5	Eastern Region	77.09	81,262,831	13,870,008
6	Asir	99.24	63,221,109	9,088,914
7	Tabuk	99.03	27,380,007	1,495,005
8	Hail	99.10	23,262,318	144,102
9	Northern Borders	98.94	8,798,720	533,146
10	Jazan	99.88	31,513,755	3,776,967
11	Najran	97.96	16,944,600	127,657
12	Al-Bahah	99.46	11,176,833	693,720
13	Al-Jouf	97.38	11,205,051	4,702,939
Total of the Kingdom		93.20	741,648,655	248,912,267

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Number of Refilling Times of (LPG) Butane Gas in Houses According By Type (Cylinder/Tank) in the Administrative Regions

Table 34

S/N	Administrative Region	Percentage of Households Using LPG	Cylinder	Tank
1	Riyadh	91.90	15,487,887	124,871
2	Makkah	97.19	18,660,870	54,023
3	Madinah	91.91	4,514,008	8,498
4	Al-Qassim	98.98	2,521,611	34,158
5	Eastern Region	77.09	7,138,894	26,302
6	Asir	99.24	5,512,683	10,394
7	Tabuk	99.03	2,425,734	1,630
8	Hail	99.10	2,065,601	144
9	Northern Borders	98.94	781,381	1,019
10	Jazan	99.88	2,796,514	8,234
11	Najran	97.96	1,492,272	128
12	Al-Bahah	99.46	990,448	698
13	Al-Jouf	97.38	951,703	10,312
Total of the Kingdom		93.20	65,339,607	280,407

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Total Annual Cost in Saudi Riyal of Refilling (LPG) Butane Gas in Houses According By Type (Cylinder/Tank) in the Administrative Regions

Table 35

S/N	Administrative Region	Number of Houses	Percentage of Houses Using LPG	Total Cost in Saudi Riyal According to the Type of Cylinder/Tank	
				Cylinder	Tank
1	Riyadh	1,339,663	91.90	266,289,234	67,221,009
2	Makkah	1,491,367	97.19	317,937,213	35,743,549
3	Madinah	372,051	91.91	78,370,652	4,708,813
4	Al-Qassim	261,832	98.98	42,915,644	15,951,575
5	Eastern Region	762,114	77.09	122,797,166	8,008,616
6	Asir	384,704	99.24	95,534,120	5,238,099
7	Tabuk	165,959	99.03	41,374,233	861,318
8	Hail	111,123	99.10	35,151,948	83,003
9	Northern Borders	47,218	98.94	13,295,843	307,839
10	Jazan	220,025	99.88	47,620,785	2,182,015
11	Najran	106,005	97.96	25,605,174	73,530
12	Al-Bahah	81,742	99.46	16,889,436	399,692
13	Al-Jouf	77,760	97.38	16,932,077	2,717,052
Total of the Kingdom		5,421,563	93.20	1,120,713,524	143,496,110

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in the Kingdom Houses

Table 36

Total of The Kingdom	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
				Winter	Rest of the Year
	Heating	Gas Heater	108,980	30	9
	Cooking	Gas Stove	5,604,728	19	22

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Riyadh Houses

Table 36-1

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
1	Riyadh	Heating	Gas Heater	44,153	32	3
		Cooking	Gas Stove	1,523,340	20	26

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Makkah Houses

Table 36-2

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
2	Makkah	Heating	Gas Heater	6,266	35	11
		Cooking	Gas Stove	1,598,043	19	22

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Madinah Houses

Table 36-3

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
3	Madinah	Heating	Gas Heater	4,249	40	10
		Cooking	Gas Stove	342,936	16	17

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Al-Qassim Houses

Table 36-4

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
4	Al-Qassim	Heating	Gas Heater	3,407	7	2
		Cooking	Gas Stove	263,088	11	12

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Eastern Region Houses

Table 36-5

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
5	Eastern Region	Heating	Gas Heater	10,800	18	10
		Cooking	Gas Stove	625,303	19	21

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Asir Houses

Table 36-6

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
6	Asir	Heating	Gas Heater	8,866	25	23
		Cooking	Gas Stove	415,885	24	26

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Average Operation Hours per Week of (LPG) Butane Gas Equipments in Tabuk Houses

Table 36-7

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
7	Tabuk	Heating	Gas Heater	6,721	20	10
		Cooking	Gas Stove	164,516	14	16

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Hail Houses

Table 36-8

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
8	Hail	Heating	Gas Heater	10,799	48	22
		Cooking	Gas Stove	116,991	21	21

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Northern Borders Houses

Table 36-9

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
9	Northern Borders	Heating	Gas Heater	5,514	30	11
		Cooking	Gas Stove	52,314	18	19

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Jazan Houses

Table 36-10

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
10	Jazan	Heating	Gas Heater	0	0	0
		Cooking	Gas Stove	229,525	18	20

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Najran Houses

Table 36-11

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
11	Najran	Heating	Gas Heater	2,256	9	4
		Cooking	Gas Stove	105,755	16	17

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Al-Bahah Houses

Table 36-12

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
12	Al-Bahah	Heating	Gas Heater	2,993	14	4
		Cooking	Gas Stove	86,952	17	23

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Average Operation Hours per Week of (LPG) Butane Gas Equipments in Al-Jouf Houses

Table 36-13

S/N	Administrative Region	Type of Use	Type of Equipment Used	total Number of Equipments Used	Average Operation Hours / Week	
					Winter	Rest of the Year
13	Al-Jouf	Heating	Gas Heater	2,955	32	12
		Cooking	Gas Stove	80,079	17	19

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Percentage of Houses Supplied with Electricity in the Administrative Regions

Table 37

S/N	Administrative Region	Electricity Availability		Total (%)
		Yes (%)	No (%)	
1	Riyadh	100.00	0.00	100.00
2	Makkah	100.00	0.00	100.00
3	Madinah	99.82	0.18	100.00
4	Al-Qassim	100.00	0.00	100.00
5	Eastern Region	100.00	0.00	100.00
6	Asir	100.00	0.00	100.00
7	Tabuk	100.00	0.00	100.00
8	Hail	100.00	0.00	100.00
9	Northern Borders	100.00	0.00	100.00
10	Jazan	100.00	0.00	100.00
11	Najran	99.60	0.40	100.00
12	Al-Bahah	99.66	0.34	100.00
13	Al-Jouf	100.00	0.00	100.00
Total of the Kingdom		99.97	0.03	100.00

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Percentage of Houses According to the Type of Electricity Meter in the Administrative Regions

Table 38

S/N	Administrative Region	Type of Electricity Meter		Total (%)
		Private (%)	Shared (%)	
1	Riyadh	83.33	16.67	100.00
2	Makkah	82.80	17.20	100.00
3	Madinah	81.54	18.46	100.00
4	Al-Qassim	81.61	18.39	100.00
5	Eastern Region	83.94	16.06	100.00
6	Asir	80.85	19.15	100.00
7	Tabuk	83.97	16.03	100.00
8	Hail	80.69	19.31	100.00
9	Northern Borders	92.97	7.03	100.00
10	Jazan	79.64	20.36	100.00
11	Najran	75.72	24.28	100.00
12	Al-Bahah	74.55	25.45	100.00
13	Al-Jouf	83.84	16.16	100.00
Total of the Kingdom		82.52	17.48	100.00

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Percentage of Houses Supplied with Electricity Regulator in the Administrative Regions

Table 39

S/N	Administrative Region	Electricity Regulator Availability		Total (%)
		Yes (%)	No (%)	
1	Riyadh	15.01	84.99	100.00
2	Makkah	26.33	73.67	100.00
3	Madinah	8.23	91.77	100.00
4	Al-Qassim	10.84	89.16	100.00
5	Eastern Region	9.99	90.01	100.00
6	Asir	13.54	86.46	100.00
7	Tabuk	15.58	84.42	100.00
8	Hail	10.20	89.80	100.00
9	Northern Borders	14.12	85.88	100.00
10	Jazan	8.05	91.95	100.00
11	Najran	7.03	92.97	100.00
12	Al-Bahah	13.70	86.30	100.00
13	Al-Jouf	14.79	85.21	100.00
Total of the Kingdom		16.10	83.90	100.00

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Houses Total Consumption and Cost of Electricity in the Administrative Regions

Table 40

S/N	Administrative Region	Winter		Rest of the Year	
		Consumption (KWh)	Cost (Saudi Riyal)	Consumption (KWh)	Cost (Saudi Riyal)
1	Riyadh	9,656,113,095	646,321,545	58,311,208,859	5,000,680,818
2	Makkah	10,225,556,784	673,039,064	54,951,107,564	5,151,689,961
3	Madinah	2,458,903,536	161,679,183	12,934,995,238	1,155,048,654
4	Al-Qassim	1,682,430,848	115,254,648	8,702,062,275	714,747,363
5	Eastern Region	5,262,775,052	359,183,065	30,727,730,092	3,165,695,573
6	Asir	4,146,428,089	275,512,195	20,464,106,366	1,969,645,445
7	Tabuk	1,111,825,199	73,810,717	4,585,245,842	360,078,967
8	Hail	1,056,543,109	73,455,021	3,925,871,299	321,251,274
9	Northern Borders	461,492,447	28,935,954	1,680,672,755	124,393,718
10	Jazan	2,324,786,701	149,979,131	12,330,297,464	1,136,274,519
11	Najran	767,280,686	54,296,995	4,024,055,708	451,502,210
12	Al-Bahah	633,322,853	42,419,719	2,444,806,140	202,643,572
13	Al-Jouf	1,047,155,811	53,629,863	4,541,531,311	243,302,753
Total of the Kingdom		40,834,614,211	2,707,517,100	219,623,690,912	19,996,954,830

Reference: Household Energy Survey 2017

*Fuel usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses in the Kingdom

Table 41

	Use Type	Number of Equipment Used	Average Operation Hours / Week	
			Winter	Rest of the Year
Total of the Kingdom	Heating	7,544,778	56	12
	Water Heating	9,427,111	69	25
	Air Condition	26,034,896	20	60
	Lightening	168,998,952	51	55
	Cooking	2,850,026	11	14
	Food Preservation	7,701,242	134	137
	Total	222,557,004	61	60

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Riyadh

Table 41-1

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Heating	2,792,631	68	11
		Water Heating	2,596,795	77	12
		Air Condition	7,004,317	11	67
		Lightening	41,959,158	53	60
		Cooking	719,518	12	14
		Food Preservation	2,096,412	141	146
		Total	57,168,830	65	61

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Makkah

Table 41-2

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Heating	587,706	54	16
		Water Heating	1,861,587	55	35
		Air Condition	6,807,833	32	65
		Lightening	41,496,932	55	58
		Cooking	702,342	11	13
		Food Preservation	1,894,004	143	144
		Total	53,350,405	64	69

Reference: Household Energy Survey 2017

*Fuel usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Madinah

Table 41-3

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Heating	401,054	65	5
		Water Heating	528,202	85	14
		Air Condition	1,730,861	14	61
		Lightening	7,801,408	52	55
		Cooking	164,710	9	11
		Food Preservation	487,034	137	139
		Total	11,113,268	64	60

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Al-Qassim

Table 41-4

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Heating	557,066	30	2
		Water Heating	681,838	44	5
		Air Condition	1,308,897	7	33
		Lightening	7,989,771	26	30
		Cooking	149,443	4	7
		Food Preservation	484,975	85	85
		Total	11,171,990	36	32

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Eastern Region

Table 41-5

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Heating	1,220,194	54	5
		Water Heating	1,774,810	79	21
		Air Condition	3,742,680	6	67
		Lightening	34,628,558	56	59
		Cooking	599,140	12	16
		Food Preservation	1,159,189	138	141
		Total	43,124,570	60	59

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Asir

Table 41-6

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Heating	767,633	62	38
		Water Heating	662,122	100	94
		Air Condition	1,376,678	30	51
		Lightening	13,927,462	53	56
		Cooking	163,252	13	13
		Food Preservation	468,602	150	151
		Total	17,365,749	71	72

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Tabuk

Table 41-7

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Heating	295,265	28	8
		Water Heating	313,436	45	19
		Air Condition	711,444	17	40
		Lightening	3,326,809	40	43
		Cooking	57,491	8	9
		Food Preservation	199,882	91	95
		Total	4,904,328	42	40

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses in Hail

Table 41-8

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Heating	306,907	60	9
		Water Heating	310,032	102	17
		Air Condition	585,620	28	70
		Lightening	4,299,884	51	52
		Cooking	68,415	9	9
		Food Preservation	204,235	164	165
		Total	5,775,093	75	62

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Northern Borders

Table 41-9

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Heating	95,312	38	5
		Water Heating	79,219	38	10
		Air Condition	229,604	24	50
		Lightening	1,245,869	51	53
		Cooking	23,024	7	7
		Food Preservation	69,664	115	122
		Total	1,742,692	51	50

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Jazan

Table 41-10

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Heating	24,170	26	8
		Water Heating	88,227	19	13
		Air Condition	1,383,932	39	51
		Lightening	4,002,277	54	57
		Cooking	77,591	12	14
		Food Preservation	289,073	114	116
		Total	5,865,270	57	62

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Najran

Table 41-11

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Heating	162,998	26	2
		Water Heating	264,542	32	14
		Air Condition	510,582	9	35
		Lightening	3,692,457	30	33
		Cooking	59,070	9	11
		Food Preservation	131,755	74	79
		Total	4,821,404	31	33

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Al-Bahah

Table 41-12

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Heating	158,292	46	25
		Water Heating	160,267	50	48
		Air Condition	299,679	25	41
		Lightening	2,728,905	32	40
		Cooking	41,803	11	19
		Food Preservation	111,874	134	139
		Total	3,500,821	54	57

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses in Al-Jouf

Table 41-13

S/N	Administrative Region	Use Type	Number of Equipment Used	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Heating	175,550	62	22
		Water Heating	106,034	66	21
		Air Condition	342,770	29	48
		Lightening	1,899,460	36	40
		Cooking	24,227	12	13
		Food Preservation	104,543	119	122
		Total	2,652,584	58	52

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in the Kingdom

Table 42

	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
			Winter	Rest of the Year
Total of the Kingdom	Heater	3,372,710	76	21
	Radiant Heaters	1,809,008	36	4
	Oil Heater	2,162,336	49	7
	Fan Heater	200,128	39	4

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Riyadh

Table 42-1

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
1	Riyadh	Heater	1,580,591	94	17
		Radiant Heaters	525,605	39	5
		Oil Heater	633,974	50	4
		Fan Heater	52,461	32	5

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Makkah

Table 42-2

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
2	Makkah	Heater	326,661	66	24
		Radiant Heaters	55,971	38	3
		Oil Heater	186,884	37	3
		Fan Heater	17,635	42	3

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Madinah

Table 42-3

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
3	Madinah	Heater	183,910	83	8
		Radiant Heaters	36,165	30	1
		Oil Heater	123,408	54	1
		Fan Heater	57,571	48	2

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Al-Qassim

Table 42-4

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
4	Al-Qassim	Heater	163,660	29	5
		Radiant Heaters	225,866	18	2
		Oil Heater	158,187	52	1
		Fan Heater	9,352	18	2

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating)in Eastern Region

Table 42-5

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
5	Eastern Region	Heater	418,167	78	10
		Radiant Heaters	395,427	38	3
		Oil Heater	393,629	46	2
		Fan Heater	12,970	47	1

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Asir

Table 42-6

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
6	Asir	Heater	310,591	80	72
		Radiant Heaters	95,870	51	12
		Oil Heater	355,870	53	22
		Fan Heater	5,303	53	23

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Tabuk

Table 42-7

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
7	Tabuk	Heater	62,584	23	9
		Radiant Heaters	163,871	29	6
		Oil Heater	67,640	33	10
		Fan Heater	1,170	22	1

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Hail

Table 42-8

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
8	Hail	Heater	58,878	57	15
		Radiant Heaters	153,069	48	8
		Oil Heater	83,943	93	6
		Fan Heater	11,018	39	5

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Northern Borders

Table 42-9

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
9	Northern Borders	Heater	46,983	33	8
		Radiant Heaters	37,447	42	4
		Oil Heater	10,074	40	3
		Fan Heater	808	53	3

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Jazan

Table 42-10

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
10	Jazan	Heater	24,170	26	8
		Radiant Heaters	0	0	0
		Oil Heater	0	0	0
		Fan Heater	0	0	0

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Najran

Table 42-11

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
11	Najran	Heater	43,483	17	4
		Radiant Heaters	29,732	23	1
		Oil Heater	62,382	29	2
		Fan Heater	27,400	41	1

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Al-Bahah

Table 42-12

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
12	Al-Bahah	Heater	53,646	67	59
		Radiant Heaters	24,570	33	6
		Oil Heater	76,310	39	13
		Fan Heater	3,765	34	7

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Heating) in Al-Jouf

Table 42-13

S/N	Administrative Region	Heating Equipment	Number of Equipment Used	Average Operation hours / week	
				Winter	Rest of the Year
13	Al-Jouf	Heater	99,386	74	39
		Radiant Heaters	65,415	43	3
		Oil Heater	10,034	72	3
		Fan Heater	675	52	11

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in the Kingdom

Table 43

Total of the Kingdom	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
	Electrical Heater	7,593,691	99	33
	Electrical Kettle	1,833,278	9	11

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Riyadh

Table 43-1

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Electrical Heater	2,095,197	116	12
		Electrical Kettle	501,597	11	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Makkah

Table 43-2

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Electrical Heater	1,404,684	79	47
		Electrical Kettle	456,903	11	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Madinah

Table 43-3

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Electrical Heater	438,634	115	16
		Electrical Kettle	89,568	9	10

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Al-Qassim

Table 43-4

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Electrical Heater	561,562	66	4
		Electrical Kettle	120,135	4	6

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Eastern Region

Table 43-5

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Electrical Heater	1,403,405	119	29
		Electrical Kettle	371,404	8	9

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Asir

Table 43-6

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Electrical Heater	558,204	143	134
		Electrical Kettle	103,918	10	10

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Tabuk

Table 43-7

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Electrical Heater	265,429	59	23
		Electrical Kettle	48,007	6	7

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Hail

Table 43-8

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Electrical Heater	275,208	132	20
		Electrical Kettle	34,824	6	7

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Northern Borders

Table 43-9

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Electrical Heater	67,337	51	11
		Electrical Kettle	11,882	6	6

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Jazan

Table 43-10

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Electrical Heater	51,259	28	17
		Electrical Kettle	36,968	9	9

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Najran

Table 43-11

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Electrical Heater	243,404	36	15
		Electrical Kettle	21,138	9	10

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Al-Bahah

Table 43-12

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Electrical Heater	138,451	66	62
		Electrical Kettle	21,816	7	13

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Water Heating) in Al-Jouf

Table 43-13

S/N	Administrative Region	Used Equipment for Water Heating	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Electrical Heater	90,917	83	25
		Electrical Kettle	15,117	10	10

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in the Kingdom

Table 44

	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
Total of the Kingdom	Fan	3,800,280	23	38
	Window AC	16,758,106	21	64
	Split AC	5,090,043	15	64
	Evaporative Cooler	173,350	5	59
	Central AC	205,118	27	93

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Riyadh

Table 44-1

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Fan	477,866	9	40
		Window AC	4,063,935	12	68
		Split AC	2,302,628	12	70
		Evaporative Cooler	99,660	3	64
		Central AC	60,228	9	81

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Makkah

Table 44-2

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Fan	1,332,844	34	46
		Window AC	4,915,821	31	71
		Split AC	513,747	29	63
		Evaporative Cooler	6,966	29	94
		Central AC	34,551	52	88

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Madinah

Table 44-3

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Fan	299,462	19	35
		Window AC	1,305,139	13	68
		Split AC	108,698	10	64
		Evaporative Cooler	5,122	5	62
		Central AC	12,439	34	51

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Al-Qassim

Table 44-4

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Fan	153,588	2	11
		Window AC	760,051	8	33
		Split AC	355,222	10	41
		Evaporative Cooler	39,467	1	45
		Central AC	568	10	8

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Eastern Region

Table 44-5

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Fan	212,664	5	25
		Window AC	2,147,363	5	67
		Split AC	1,283,272	5	71
		Evaporative Cooler	6,007	27	50
		Central AC	93,373	23	114

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Asir

Table 44-6

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Fan	309,860	29	41
		Window AC	883,847	30	54
		Split AC	180,858	31	53
		Evaporative Cooler	1,287	26	39
		Central AC	827	29	56

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Tabuk

Table 44-7

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Fan	135,868	9	29
		Window AC	538,769	19	43
		Split AC	35,465	16	45
		Evaporative Cooler	748	3	22
		Central AC	594	11	60

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Hail

Table 44-8

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Fan	81,837	5	30
		Window AC	399,762	32	76
		Split AC	100,497	32	74
		Evaporative Cooler	3,308	2	71
		Central AC	216	57	136

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Northern Borders

Table 44-9

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Fan	39,906	4	22
		Window AC	158,234	27	55
		Split AC	28,648	28	57
		Evaporative Cooler	795	3	49
		Central AC	925	41	58

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Jazan

Table 44-10

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Fan	489,353	31	37
		Window AC	842,680	47	64
		Split AC	49,545	30	37
		Evaporative Cooler	131	4	6
		Central AC	2,224	15	39

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Najran

Table 44-11

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Fan	132,772	7	22
		Window AC	331,362	11	40
		Split AC	34,363	11	36
		Evaporative Cooler	8,945	4	26
		Central AC	139	13	38

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Al-Bahah

Table 44-12

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Fan	63,184	15	25
		Window AC	187,778	28	46
		Split AC	48,325	26	42
		Evaporative Cooler	244	57	59
		Central AC	148	27	48

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Air Conditioning) in Al-Jouf

Table 44-13

S/N	Administrative Region	Used Equipment for Air Conditioning	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Fan	71,076	11	38
		Window AC	222,093	35	50
		Split AC	48,776	28	50
		Evaporative Cooler	669	5	45
		Central AC	157	37	48

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in the Kingdom

Table 45

	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
Total of the Kingdom	Regular Lamps	95,014,473	58	63
	Energy Saving Lamps	40,115,206	55	58
	Fluorescent Lamps	31,782,845	43	46
	Side Lamps	2,086,328	18	20

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Riyadh

Table 45-1

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Regular Lamps	20,398,537	54	63
		Energy Saving Lamps	8,514,567	57	60
		Fluorescent Lamps	12,443,174	57	62
		Side Lamps	602,880	21	24

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Makkah

Table 45-2

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Regular Lamps	24,628,859	65	69
		Energy Saving Lamps	13,458,828	58	61
		Fluorescent Lamps	3,067,186	24	26
		Side Lamps	342,059	16	17

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Madinah

Table 45-3

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Regular Lamps	6,252,432	60	64
		Energy Saving Lamps	1,109,908	50	51
		Fluorescent Lamps	381,230	19	21
		Side Lamps	57,838	17	17

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Al-Qassim

Table 45-4

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Regular Lamps	2,374,309	24	31
		Energy Saving Lamps	2,246,046	39	41
		Fluorescent Lamps	3,249,043	26	29
		Side Lamps	120,373	10	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Eastern Region

Table 45-5

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Regular Lamps	20,039,241	66	71
		Energy Saving Lamps	10,922,626	66	69
		Fluorescent Lamps	3,089,466	45	46
		Side Lamps	577,226	20	20

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Asir

Table 45-6

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Regular Lamps	6,663,285	52	56
		Energy Saving Lamps	1,805,260	51	56
		Fluorescent Lamps	5,287,166	59	61
		Side Lamps	171,751	28	31

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Tabuk

Table 45-7

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Regular Lamps	2,972,307	44	46
		Energy Saving Lamps	199,887	29	34
		Fluorescent Lamps	133,521	32	36
		Side Lamps	20,996	10	14

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Hail

Table 45-8

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Regular Lamps	2,309,103	56	58
		Energy Saving Lamps	469,473	41	41
		Fluorescent Lamps	1,503,985	50	52
		Side Lamps	17,323	12	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Northern Borders

Table 45-9

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Regular Lamps	1,122,709	56	57
		Energy Saving Lamps	3,994	29	29
		Fluorescent Lamps	108,513	39	42
		Side Lamps	10,652	20	20

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Jazan

Table 45-10

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Regular Lamps	3,087,744	67	70
		Energy Saving Lamps	307,203	42	44
		Fluorescent Lamps	562,790	23	27
		Side Lamps	44,540	15	16

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Najran

Table 45-11

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Regular Lamps	1,694,466	33	36
		Energy Saving Lamps	178,172	15	16
		Fluorescent Lamps	1,741,108	36	40
		Side Lamps	78,711	10	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Al-Bahah

Table 45-12

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Regular Lamps	1,990,482	40	47
		Energy Saving Lamps	540,986	31	45
		Fluorescent Lamps	172,498	15	20
		Side Lamps	24,939	12	17

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Lightening) in Al-Jouf

Table 45-13

S/N	Administrative Region	Used Equipment for the Lightening	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Regular Lamps	1,480,999	37	40
		Energy Saving Lamps	358,256	45	44
		Fluorescent Lamps	43,166	25	39
		Side Lamps	17,039	20	24

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in the Kingdom

Table 46

Total of the Kingdom	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
	Electric Stove	1,012,484	17	21
	Microwave	1,706,923	8	10
	Electric Grill	130,218	8	9

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Riyadh

Table 46-1

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Electric Stove	192,203	22	24
		Microwave	493,134	8	11
		Electric Grill	33,852	11	12

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Makkah

Table 46-2

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Electric Stove	295,797	15	18
		Microwave	388,137	8	10
		Electric Grill	18,407	7	7

Source: Household Energy Survey 2017

*Electricity usage in (2016)



Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Madinah

Table 46-3

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Electric Stove	57,266	10	12
		Microwave	104,896	8	10
		Electric Grill	2,548	13	16

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Al-Qassim

Table 46-4

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Electric Stove	32,827	6	8
		Microwave	104,728	4	6
		Electric Grill	11,888	4	4

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Eastern Region

Table 46-5

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Electric Stove	246,879	21	28
		Microwave	309,010	6	9
		Electric Grill	43,251	5	6

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Asir

Table 46-6

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Electric Stove	63,349	18	19
		Microwave	90,712	10	10
		Electric Grill	9,191	9	9

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Tabuk

Table 46-7

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Electric Stove	20,996	9	11
		Microwave	36,198	7	8
		Electric Grill	297	9	23

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Hail

Table 46-8

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Electric Stove	23,500	13	13
		Microwave	42,105	6	7
		Electric Grill	2,738	10	10

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Northern Borders

Table 46-9

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Electric Stove	5,319	10	12
		Microwave	17,318	6	6
		Electric Grill	388	9	9

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Jazan

Table 46-10

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Electric Stove	26,525	17	20
		Microwave	49,607	9	10
		Electric Grill	1,459	8	11

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Najran

Table 46-11

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Electric Stove	28,627	11	12
		Microwave	26,294	8	9
		Electric Grill	4,149	9	11

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Al-Bahah

Table 46-12

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Electric Stove	14,029	13	19
		Microwave	27,109	10	20
		Electric Grill	665	4	5

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Cooking) in Al-Jouf

Table 46-13

S/N	Administrative Region	Used Equipment for the Cooking	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Electric Stove	5,168	18	21
		Microwave	17,675	9	10
		Electric Grill	1,384	20	22

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in the Kingdom

Table 47

Total of the Kingdom	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
	Fridge	5,743,530	133	136
	Freezer	1,957,279	138	140

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Riyadh

Table 47-1

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	Fridge	1,479,679	139	145
		Freezer	616,734	146	147

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Makkah

Table 47-2

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	Fridge	1,493,624	142	144
		Freezer	399,947	146	147

Source: Household Energy Survey 2017

*Electricity usage in (2016)

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Madinah

Table 47-3

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	Fridge	379,641	137	139
		Freezer	107,393	135	137

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Al-Qassim

Table 47-4

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	Fridge	298,165	83	83
		Freezer	186,810	89	89

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Eastern Region

Table 47-5

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	Fridge	851,516	137	141
		Freezer	307,673	141	143

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Asir

Table 47-6

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	Fridge	386,742	149	150
		Freezer	81,860	154	155

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Tabuk

Table 47-7

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	Fridge	165,646	89	93
		Freezer	34,237	101	104

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Hail

Table 47-8

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	Fridge	132,259	164	165
		Freezer	71,975	165	166

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Northern Borders

Table 47-9

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	Fridge	50,344	115	122
		Freezer	19,319	115	123

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Jazan

Table 47-10

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	Fridge	238,997	112	115
		Freezer	50,075	121	122

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Najran

Table 47-11

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	Fridge	105,584	66	70
		Freezer	26,171	106	112

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Al-Bahah

Table 47-12

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	Fridge	82,451	132	137
		Freezer	29,423	139	142

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for (Food Preservation) in Al-Jouf

Table 47-13

S/N	Administrative Region	Used Equipment in Food Preservation	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	Fridge	78,882	115	120
		Freezer	25,661	130	129

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in the Kingdom

Table 48

	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
			Winter	Rest of the Year
Total for the Kingdom	TV	8,204,783	37	41
	Washing Machine	5,315,575	9	13
	Iron	4,366,405	7	9
	Vacuum Cleaner	4,014,942	7	10
	Dishwasher	179,033	10	12
	Water Cooler	2,060,191	70	120
	Water Bump (Dynamo)	2,267,278	11	15
	PC	2,740,014	15	18
	Gaming Devices	1,368,031	18	21

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Riyadh

Table 48-1

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
1	Riyadh	TV	2,309,120	39	45
		Washing Machine	1,352,075	10	14
		Iron	1,093,377	7	11
		Vacuum Cleaner	1,031,546	7	11
		Dishwasher	66,496	11	14
		Water Cooler	820,470	61	125
		Water Bump (Dynamo)	552,975	10	15
		PC	804,155	16	19
	Gaming Devices	391,667	17	22	

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Makkah

Table 48-2

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
2	Makkah	TV	2,085,302	43	48
		Washing Machine	1,442,713	10	14
		Iron	1,252,923	7	9
		Vacuum Cleaner	1,068,792	8	10
		Dishwasher	25,404	11	14
		Water Cooler	453,890	108	128
		Water Bump (Dynamo)	517,604	12	16
		PC	685,327	17	20
Gaming Devices	373,512	20	24		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Madinah

Table 48-3

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
3	Madinah	TV	468,803	35	39
		Washing Machine	342,459	9	11
		Iron	292,994	6	8
		Vacuum Cleaner	275,352	6	9
		Dishwasher	12,431	6	6
		Water Cooler	100,402	87	130
		Water Bump (Dynamo)	95,978	22	24
		PC	153,725	16	17
	Gaming Devices	48,621	19	20	

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Al-Qassim

Table 48-4

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
4	Al-Qassim	TV	339,362	17	21
		Washing Machine	258,988	5	6
		Iron	211,103	3	4
		Vacuum Cleaner	194,374	3	4
		Dishwasher	12,030	3	6
		Water Cooler	96,867	23	75
		Water Bump (Dynamo)	179,801	6	9
		PC	149,006	11	14
Gaming Devices	59,832	15	20		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Eastern Region

Table 48-5

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
5	Eastern Region	TV	1,320,817	34	38
		Washing Machine	738,193	9	13
		Iron	599,503	6	8
		Vacuum Cleaner	588,862	6	8
		Dishwasher	36,904	13	13
		Water Cooler	303,418	53	126
		Water Bump (Dynamo)	275,443	20	22
		PC	563,829	13	16
Gaming Devices	251,169	15	17		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Asir

Table 48-6

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
6	Asir	TV	474,754	42	44
		Washing Machine	377,567	12	13
		Iron	295,631	9	11
		Vacuum Cleaner	317,423	10	12
		Dishwasher	11,199	12	13
		Water Cooler	24,930	119	134
		Water Bump (Dynamo)	233,272	9	12
		PC	124,874	18	21
Gaming Devices	64,297	20	22		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Tabuk

Table 48-7

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
7	Tabuk	TV	240,231	26	29
		Washing Machine	159,325	6	8
		Iron	133,266	4	6
		Vacuum Cleaner	119,624	5	7
		Dishwasher	2,933	5	7
		Water Cooler	29,768	40	71
		Water Bump (Dynamo)	41,739	12	20
		PC	42,210	9	10
Gaming Devices	28,360	12	16		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016



Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Hail

Table 48-8

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
8	Hail	TV	186,928	44	46
		Washing Machine	115,203	10	12
		Iron	87,526	7	8
		Vacuum Cleaner	90,842	6	8
		Dishwasher	2,151	10	11
		Water Cooler	59,526	22	151
		Water Bump (Dynamo)	90,627	7	11
		PC	36,959	14	15
Gaming Devices	21,784	22	23		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Northern Borders

Table 48-9

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
9	Northern Borders	TV	74,922	36	38
		Washing Machine	48,036	8	9
		Iron	36,427	5	6
		Vacuum Cleaner	38,525	6	7
		Dishwasher	170	5	5
		Water Cooler	22,196	16	57
		Water Bump (Dynamo)	29,446	6	8
		PC	11,101	11	13
Gaming Devices	13,810	14	16		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Jazan

Table 48-10

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
10	Jazan	TV	322,006	30	33
		Washing Machine	228,141	11	13
		Iron	162,163	7	9
		Vacuum Cleaner	78,692	8	10
		Dishwasher	916	25	27
		Water Cooler	71,340	107	112
		Water Bump (Dynamo)	104,976	7	9
		PC	79,216	15	17
Gaming Devices	61,007	16	19		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Najran

Table 48-11

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
11	Najran	TV	146,645	24	27
		Washing Machine	96,145	5	6
		Iron	75,936	4	4
		Vacuum Cleaner	78,516	4	5
		Dishwasher	3,766	5	6
		Water Cooler	14,209	18	25
		Water Bump (Dynamo)	63,955	6	8
		PC	33,091	11	12
Gaming Devices	20,951	14	16		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Al-Bahah

Table 48-12

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
12	Al-Bahah	TV	111,957	29	38
		Washing Machine	80,816	9	15
		Iron	65,469	8	13
		Vacuum Cleaner	68,347	7	13
		Dishwasher	3,443	7	13
		Water Cooler	27,729	58	79
		Water Bump (Dynamo)	39,106	6	10
		PC	36,544	14	22
Gaming Devices	17,491	12	21		

Reference: Household Energy Survey 2017

* Electricity Usage in 2016

Weekly Operation Hours Average of Electrical Energy Uses for Some Equipments in Al-Jouf

Table 48-13

S/N	Administrative Region	Used Equipment	Number of Used Equipment	Average Operation Hours / Week	
				Winter	Rest of the Year
13	Al-Jouf	TV	123,937	26	29
		Washing Machine	75,915	8	11
		Iron	60,088	5	7
		Vacuum Cleaner	64,047	6	8
		Dishwasher	1,191	14	15
		Water Cooler	35,447	34	90
		Water Bump (Dynamo)	42,356	13	25
		PC	19,978	10	11
	Gaming Devices	15,530	16	17	

Reference: Household Energy Survey 2017

* Electricity Usage in 2016



Percentage of Air-conditioning Temperature Used Within the House in the Administrative Regions

Table 49

S/N	Administrative Region	Low (%)	Medium (%)	High (%)
1	Riyadh	10.21	77.66	12.13
2	Makkah	10.97	70.21	18.82
3	Madinah	15.15	68.58	16.27
4	Al-Qassim	16.22	78.39	5.39
5	Eastern Region	16.11	71.77	12.12
6	Asir	14.97	80.79	4.24
7	Tabuk	11.61	65.90	22.49
8	Hail	7.41	78.94	13.65
9	Northern Borders	9.40	79.94	10.66
10	Jazan	10.78	66.93	22.29
11	Najran	9.48	74.38	16.14
12	Al-Bahah	9.31	83.61	7.08
13	Al-Jouf	12.65	68.98	18.37
Total of the Kingdom		12.23	73.54	14.23

Reference: Household Energy Survey 2017

Percentage of Heating Temperature Used Within the House in the Administrative Regions

Table 50

S/N	Administrative Region	Low (%)	Medium (%)	High (%)
1	Riyadh	25.43	70.93	3.64
2	Makkah	41.43	56.05	2.52
3	Madinah	36.89	60.34	2.77
4	Al-Qassim	21.98	75.33	2.69
5	Eastern Region	20.07	75.55	4.38
6	Asir	22.78	70.79	6.43
7	Tabuk	28.48	61.67	9.85
8	Hail	12.88	80.86	6.26
9	Northern Borders	9.08	81.61	9.31
10	Jazan	65.80	32.30	1.90
11	Najran	30.00	62.80	7.20
12	Al-Bahah	11.22	83.59	5.19
13	Al-Jouf	13.82	71.48	14.70
Total of the Kingdom		29.1	66.71	4.19

Reference: Household Energy Survey 2017



Percentage of the Number of Households Interested in Reducing and Rationalizing Electricity Consumption in the Administrative Regions

Table 51

S/N	Administrative Region	Interested (%)	Slightly Interested (%)	Not Interested (%)
1	Riyadh	56.30	37.30	6.40
2	Makkah	60.73	35.09	4.18
3	Madinah	62.94	34.19	2.87
4	Al-Qassim	53.82	35.10	11.08
5	Eastern Region	50.40	44.46	5.14
6	Asir	52.68	41.12	6.20
7	Tabuk	41.29	54.85	3.86
8	Hail	55.40	40.51	4.09
9	Northern Borders	28.75	68.40	2.85
10	Jazan	62.47	32.20	5.33
11	Najran	36.65	52.78	10.57
12	Al-Bahah	65.69	32.38	1.93
13	Al-Jouf	57.96	40.41	1.63
Total of the Kingdom		56.08	38.59	5.33

Reference: Household Energy Survey 2017

Percentage of the Number of Households Using Electrical Power Saving Devices in the Administrative Regions

Table 52

S/N	Administrative Region	Yes (%)	No (%)
1	Riyadh	24.86	75.14
2	Makkah	29.90	70.10
3	Madinah	27.90	72.10
4	Al-Qassim	25.74	74.26
5	Eastern Region	30.73	69.27
6	Asir	11.49	88.51
7	Tabuk	15.64	84.36
8	Hail	18.57	81.43
9	Northern Borders	13.88	86.12
10	Jazan	20.74	79.26
11	Najran	17.81	82.19
12	Al-Bahah	24.17	75.83
13	Al-Jouf	30.22	69.78
Total of the Kingdom		25.63	74.37

Reference: Household Energy Survey 2017



Percentage of Households Believing That Energy Conservation Measures Would Reduce their Financial Costs in the Administrative Regions

Table 53

S/N	Administrative Region	Yes (%)	Slightly Yes (%)	No (%)
1	Riyadh	55.39	38.84	5.77
2	Makkah	58.02	37.61	4.37
3	Madinah	52.79	43.21	4.00
4	Al-Qassim	49.84	41.98	8.18
5	Eastern Region	54.46	42.09	3.45
6	Asir	45.79	47.56	6.65
7	Tabuk	42.31	52.08	5.61
8	Hail	56.09	40.14	3.77
9	Northern Borders	33.91	64.57	1.52
10	Jazan	51.20	42.68	6.12
11	Najran	35.95	54.26	9.79
12	Al-Bahah	58.54	38.65	2.81
13	Al-Jouf	57.61	40.92	1.47
	Total of the Kingdom	53.81	41.17	5.02

Reference: Household Energy Survey 2017



Percentage of Households Who Are Willing to Spend Some Money on Energy Saving Devices in the Administrative Regions

Table 54

S/N	Administrative Region	Yes (%)	Unsure (%)	No (%)
1	Riyadh	47.10	30.22	22.68
2	Makkah	48.41	32.16	19.43
3	Madinah	46.32	35.65	18.03
4	Al-Qassim	39.17	40.04	20.79
5	Eastern Region	43.98	40.36	15.66
6	Asir	34.89	38.91	26.20
7	Tabuk	31.68	49.97	18.35
8	Hail	38.21	37.48	24.31
9	Northern Borders	29.12	50.21	20.67
10	Jazan	46.75	41.27	11.98
11	Najran	33.08	44.92	22.00
12	Al-Bahah	43.13	36.38	20.49
13	Al-Jouf	41.96	41.03	17.01
	Total of the Kingdom	44.48	35.56	19.96

Reference: Household Energy Survey 2017

Percentage of Most Effective Advertising Method Thought for Energy Conservation in the Administrative Regions

Table 55

S/N	Administrative Region	TV	Newspapers and Magazines	Radio	Billboards	Electricity Bills	Schools	Mosques	SMSs	Social Media	Phone Bills	Awareness at Sports Stadiums	Other
1	Riyadh	20.10	5.80	6.10	9.10	7.50	5.80	4.80	11.70	22.80	3.40	2.10	0.80
2	Makkah	19.40	7.00	7.10	11.10	8.70	5.80	5.30	9.50	18.40	4.50	2.30	0.80
3	Madinah	19.00	6.00	6.80	8.70	7.90	7.10	6.30	9.10	20.40	4.50	3.10	1.10
4	Al-Qassim	20.40	5.60	3.90	8.70	7.90	8.10	6.70	12.90	20.30	3.80	1.30	0.30
5	Eastern Region	15.80	6.70	6.80	9.80	9.20	6.60	5.80	9.60	17.20	6.70	4.10	1.70
6	Asir	13.70	9.10	8.50	9.40	7.50	9.00	10.10	8.40	12.50	5.80	4.10	1.90
7	Tabuk	22.00	9.20	8.60	11.60	9.30	6.60	5.30	7.50	14.60	3.10	1.50	0.70
8	Hail	24.90	6.40	5.60	8.20	10.20	4.80	4.10	11.10	18.70	4.30	1.20	0.50
9	Northern Borders	19.20	6.30	4.60	11.60	9.30	9.00	6.40	5.60	18.10	6.30	3.00	0.40
10	Jazan	13.40	9.70	10.40	10.90	8.40	9.30	7.80	9.20	12.60	4.90	2.90	0.60
11	Najran	19.00	9.00	5.10	10.10	7.90	7.80	9.40	9.30	16.30	3.60	1.70	0.70
12	Al-Bahah	18.60	6.40	6.20	8.10	7.60	10.60	10.00	8.00	16.20	5.00	3.10	0.20
13	Al-Jouf	23.80	4.10	5.30	8.50	13.90	6.30	4.50	7.30	18.20	3.60	2.90	1.50
Total of the Kingdom		18.40	7.00	6.90	9.90	8.40	6.70	6.10	9.90	18.40	4.60	2.70	1.00

Reference: Household Energy Survey 2017



Percentage of Annual Costs of Electricity and Other Sources of Fuel to Total Annual Household Income Expenditure in the Administrative Region

Table 56

S/N	Administrative Region	Percentage (%)				
		Less than 5%	From 5 -10%	From 11 -15%	From 16 -20%	More than 20%
1	Riyadh	32.60	38.16	15.96	6.26	7.02
2	Makkah	40.89	37.16	15.93	3.88	2.14
3	Madinah	35.22	38.46	13.36	5.68	7.28
4	Al-Qassim	33.10	42.20	18.64	4.43	1.63
5	Eastern Region	23.09	35.95	23.86	10.51	6.59
6	Asir	10.41	23.32	19.23	20.37	26.67
7	Tabuk	21.68	45.08	24.49	5.49	3.26
8	Hail	24.63	30.72	25.28	9.00	10.37
9	Northern Borders	29.49	48.54	17.86	3.73	0.38
10	Jazan	34.40	33.31	12.16	7.25	12.88
11	Najran	16.57	26.65	19.58	19.48	17.72
12	Al-Bahah	24.98	55.40	14.82	0.94	3.86
13	Al-Jouf	21.46	41.95	18.25	12.55	5.79
Total of the Kingdom		30.95	36.70	17.71	7.49	7.15

Reference: Household Energy Survey 2017

Percentage of Water Source of Houses in the Administrative Regions

Table 57

S/N	Administrative Region	Water Source		
		Public Network (%)	Tank Cars (%)	Well (%)
1	Riyadh	90.18	8.91	0.91
2	Makkah	68.39	30.26	1.35
3	Madinah	76.77	20.37	2.86
4	Al-Qassim	82.26	15.50	2.24
5	Eastern Region	95.70	3.55	0.75
6	Asir	46.79	50.45	2.76
7	Tabuk	74.94	21.23	3.83
8	Hail	72.04	26.34	1.62
9	Northern Borders	93.60	6.39	0.01
10	Jazan	70.83	21.31	7.86
11	Najran	46.37	46.99	6.64
12	Al-Bahah	70.92	24.68	4.40
13	Al-Jouf	90.01	7.81	2.18
Total of the Kingdom		76.98	20.70	2.32

Reference: Household Energy Survey 2017

Percentage of Water Source (Public Network) According to the Type of Houses in the Administrative Regions

Table 58

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	79.39	91.66	71.62	92.11	93.71	66.42
2	Makkah	46.63	50.87	64.78	59.31	77.23	59.27
3	Madinah	39.81	97.13	71.88	93.38	94.19	80.67
4	Al-Qassim	42.22	91.86	83.62	91.32	93.20	51.92
5	Eastern Region	91.10	98.12	95.88	94.30	96.95	73.88
6	Asir	12.81	20.45	32.14	56.54	65.20	14.29
7	Tabuk	48.31	90.62	83.33	92.79	96.40	32.61
8	Hail	46.50	85.32	83.33	86.44	87.86	66.67
9	Northern Borders	93.93	92.32	88.67	98.16	93.64	84.40
10	Jazan	56.51	77.70	45.79	76.56	88.16	40.00
11	Najran	28.98	41.34	30.00	58.42	61.59	48.48
12	Al-Bahah	44.43	73.29	66.88	73.36	76.70	81.14
13	Al-Jouf	88.32	90.24	93.88	91.45	92.99	75.76
Total of the Kingdom		51.51	81.28	68.82	82.65	86.43	63.78

Reference: Household Energy Survey 2017

Percentage of Water Source (Public Network) According to the Type of Possession in the Administrative Regions

Table 59

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	88.08	94.86	75.56
2	Makkah	53.62	77.08	57.83
3	Madinah	58.83	94.67	67.25
4	Al-Qassim	79.22	93.08	64.30
5	Eastern Region	96.34	96.36	90.83
6	Asir	32.43	62.86	37.50
7	Tabuk	57.44	96.11	40.22
8	Hail	63.88	86.91	58.57
9	Northern Borders	93.08	95.12	85.64
10	Jazan	61.30	86.13	69.36
11	Najran	37.96	56.18	48.10
12	Al-Bahah	64.47	77.96	77.14
13	Al-Jouf	89.18	94.88	62.60
Total of the Kingdom		67.43	86.48	68.87

Reference: Household Energy Survey 2017

Percentage of Water Source (Tank Cars) According to the Type of Houses in the Administrative Regions

Table 60

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	17.38	8.34	26.91	7.89	6.07	22.69
2	Makkah	49.93	40.42	33.98	38.73	22.56	39.96
3	Madinah	51.38	2.34	28.12	6.62	5.64	16.83
4	Al-Qassim	54.38	7.26	8.62	7.47	5.88	39.23
5	Eastern Region	8.90	1.76	4.12	4.94	2.73	13.38
6	Asir	75.53	78.13	64.29	42.55	33.77	82.85
7	Tabuk	46.19	6.25	10.61	5.57	3.49	46.38
8	Hail	52.53	14.42	15.15	12.71	10.73	18.52
9	Northern Borders	6.07	7.68	11.14	1.84	6.36	15.60
10	Jazan	29.14	17.77	40.72	22.64	10.52	0.00
11	Najran	62.43	47.50	57.38	33.17	34.75	50.51
12	Al-Bahah	46.76	24.46	25.31	21.01	20.32	15.45
13	Al-Jouf	7.01	7.32	6.12	5.26	6.16	18.79
Total of the Kingdom		42.62	17.17	27.45	16.03	13.01	28.73

Reference: Household Energy Survey 2017

Percentage of Water Source (Tank Cars) According to the Type of Possession in the Administrative Regions

Table 61

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	11.79	5.10	18.11
2	Makkah	43.21	22.51	40.91
3	Madinah	40.06	5.14	10.48
4	Al-Qassim	18.99	6.44	27.54
5	Eastern Region	3.45	3.59	3.67
6	Asir	62.38	37.04	58.75
7	Tabuk	37.51	3.89	41.90
8	Hail	35.52	11.61	32.86
9	Northern Borders	6.89	4.88	14.36
10	Jazan	28.25	11.14	1.61
11	Najran	49.74	43.63	47.02
12	Al-Bahah	29.93	19.08	19.46
13	Al-Jouf	7.32	4.88	28.46
Total of the Kingdom		29.09	13.18	24.55

Reference: Household Energy Survey 2017

Percentage of Water Source (Well) According to the Type of Houses in the Administrative Regions

Table 62

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	3.23	0.00	1.47	0.00	0.22	10.89
2	Makkah	3.44	8.71	1.24	1.96	0.21	0.77
3	Madinah	8.81	0.53	0.00	0.00	0.17	2.50
4	Al-Qassim	3.40	0.88	7.76	1.21	0.92	8.85
5	Eastern Region	0.00	0.12	0.00	0.76	0.32	12.74
6	Asir	11.66	1.42	3.57	0.91	1.03	2.86
7	Tabuk	5.50	3.13	6.06	1.64	0.11	21.01
8	Hail	0.97	0.26	1.52	0.85	1.41	14.81
9	Northern Borders	0.00	0.00	0.19	0.00	0.00	0.00
10	Jazan	14.35	4.53	13.49	0.80	1.32	60.00
11	Najran	8.59	11.16	12.62	8.41	3.66	1.01
12	Al-Bahah	8.81	2.25	7.81	5.63	2.98	3.41
13	Al-Jouf	4.67	2.44	0.00	3.29	0.85	5.45
Total of the Kingdom		6.06	1.57	3.73	1.32	0.63	7.55

Reference: Household Energy Survey 2017

Percentage of Water Source (Well) According to the Type of Possession in the Administrative Regions

Table 63

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.13	0.04	6.33
2	Makkah	3.17	0.41	1.26
3	Madinah	1.11	0.19	22.27
4	Al-Qassim	1.79	0.48	8.16
5	Eastern Region	0.21	0.05	5.50
6	Asir	5.19	0.10	3.75
7	Tabuk	5.05	0.00	17.88
8	Hail	0.60	1.48	8.57
9	Northern Borders	0.03	0.00	0.00
10	Jazan	10.45	2.73	29.03
11	Najran	12.30	0.19	4.88
12	Al-Bahah	5.60	2.96	3.40
13	Al-Jouf	3.50	0.13	8.94
Total of the Kingdom		3.48	0.40	7.00

Reference: Household Energy Survey 2017



Percentage of Drinking-Water Source Within Houses in the Administrative Regions

Table 64

S/N	Administrative Region	Drinking Water Source				
		Public Network (%)	Tank Cars (%)	Well (%)	Water Bottles (%)	Other (%)
1	Riyadh	25.03	11.94	0.56	61.96	0.51
2	Makkah	21.04	9.64	0.79	68.35	0.18
3	Madinah	32.96	18.25	1.34	47.04	0.41
4	Al-Qassim	50.94	22.26	0.65	24.65	1.50
5	Eastern Region	28.06	22.80	0.40	48.46	0.28
6	Asir	30.55	49.28	0.45	19.72	0.00
7	Tabuk	29.02	12.81	3.28	54.75	0.14
8	Hail	23.91	41.81	0.63	32.20	1.45
9	Northern Borders	16.33	63.71	0.10	19.86	0.00
10	Jazan	16.87	16.49	1.10	65.48	0.06
11	Najran	15.18	21.71	3.78	59.20	0.13
12	Al-Bahah	26.77	11.18	1.71	59.96	0.38
13	Al-Jouf	28.74	35.61	0.26	35.32	0.07
Total of the Kingdom		25.93	22.49	0.98	50.24	0.36

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Public Network) According to the Type of Houses in the Administrative Regions

Table 65

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	26.02	35.52	13.60	31.87	19.22	27.04
2	Makkah	16.51	6.25	22.29	19.48	23.84	15.64
3	Madinah	18.06	29.15	10.29	33.91	42.36	35.17
4	Al-Qassim	36.86	63.28	58.10	54.74	54.63	11.22
5	Eastern Region	11.82	34.54	13.20	24.07	27.98	41.72
6	Asir	4.84	7.76	23.13	27.93	48.20	2.86
7	Tabuk	18.65	25.94	36.36	26.23	39.48	3.62
8	Hail	20.84	33.29	5.30	35.59	21.13	12.35
9	Northern Borders	21.99	10.25	16.67	28.70	11.88	34.40
10	Jazan	13.73	10.54	21.33	4.88	23.84	0.00
11	Najran	15.89	7.99	11.38	19.37	17.66	5.05
12	Al-Bahah	8.48	26.21	10.16	13.87	27.82	57.16
13	Al-Jouf	19.16	32.88	21.22	17.11	32.25	26.06
Total of the Kingdom		17.19	29.93	19.52	28.49	28.28	25.08

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Public Network) According to the Possession of Houses in the Administrative Regions

Table 66

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	33.06	21.89	19.74
2	Makkah	16.73	24.67	12.19
3	Madinah	32.90	35.62	20.92
4	Al-Qassim	54.00	55.06	30.74
5	Eastern Region	22.30	26.33	52.89
6	Asir	17.63	45.11	20.88
7	Tabuk	29.73	31.83	12.29
8	Hail	28.93	18.16	17.50
9	Northern Borders	15.13	18.08	11.11
10	Jazan	12.91	23.40	12.90
11	Najran	15.01	17.16	8.39
12	Al-Bahah	18.58	28.80	44.49
13	Al-Jouf	24.36	33.17	21.95
Total of the Kingdom		24.07	27.60	25.15

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Tank Cars) According to the Type of Houses in the Administrative Regions

Table 67

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	32.76	15.82	38.60	13.11	5.39	20.62
2	Makkah	21.91	18.48	7.55	13.01	5.01	11.00
3	Madinah	51.62	1.17	26.09	1.45	2.29	15.00
4	Al-Qassim	55.62	22.74	21.72	30.82	9.45	11.54
5	Eastern Region	56.16	27.02	27.73	41.71	14.91	31.21
6	Asir	83.69	80.18	56.52	40.79	29.96	72.22
7	Tabuk	24.55	0.00	13.64	13.11	4.45	19.57
8	Hail	62.60	50.00	15.15	35.51	15.94	29.63
9	Northern Borders	69.58	69.19	72.86	56.33	61.69	4.00
10	Jazan	22.00	8.85	24.70	16.48	10.44	60.00
11	Najran	28.70	30.59	45.54	17.30	12.94	14.14
12	Al-Bahah	29.24	2.25	61.77	9.66	3.72	5.26
13	Al-Jouf	73.18	30.93	63.06	50.92	28.35	13.94
Total of the Kingdom		40.54	30.72	35.60	26.83	12.58	17.30

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Tank Cars) According to the Possession of Houses in the Administrative Regions

Table 68

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	20.85	6.45	14.42
2	Makkah	17.82	5.80	6.80
3	Madinah	34.46	2.86	23.14
4	Al-Qassim	33.84	11.45	13.11
5	Eastern Region	35.90	15.97	14.46
6	Asir	64.02	33.56	48.75
7	Tabuk	21.30	4.41	20.11
8	Hail	59.13	19.39	30.71
9	Northern Borders	68.74	61.30	49.40
10	Jazan	19.83	9.75	46.77
11	Najran	35.69	6.57	14.35
12	Al-Bahah	11.37	8.25	14.86
13	Al-Jouf	50.75	23.68	37.40
Total of the Kingdom		34.38	13.68	17.91

Reference: Household Energy Survey 2017



Percentage of Drinking-Water Source (Well) According to the Type of Houses in the Administrative Regions

Table 69

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	1.79	0.21	1.47	0.45	0.44	1.56
2	Makkah	1.56	5.11	0.00	0.20	0.35	0.00
3	Madinah	2.68	0.00	2.90	0.00	0.83	0.00
4	Al-Qassim	1.03	0.35	0.00	0.26	0.99	0.64
5	Eastern Region	0.34	0.04	1.03	0.76	0.48	0.00
6	Asir	0.19	0.77	2.23	0.70	0.19	0.00
7	Tabuk	7.37	1.56	3.03	0.00	0.95	2.97
8	Hail	0.59	0.00	3.03	0.00	1.17	0.00
9	Northern Borders	0.20	0.00	0.29	0.29	0.01	0.00
10	Jazan	1.84	0.07	0.24	0.80	0.63	0.00
11	Najran	5.81	7.47	0.31	5.32	1.54	1.01
12	Al-Bahah	3.61	0.04	5.00	2.52	1.12	0.95
13	Al-Jouf	0.00	0.00	0.00	0.00	0.12	1.82
Total of the Kingdom		2.35	0.77	1.37	0.77	0.54	0.88

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Well) According to the Possession of Houses in the Administrative Regions

Table 70

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.21	0.40	1.98
2	Makkah	1.51	0.36	1.08
3	Madinah	1.21	1.45	1.31
4	Al-Qassim	0.41	0.80	0.98
5	Eastern Region	0.23	0.37	1.02
6	Asir	0.82	0.00	1.25
7	Tabuk	6.30	0.90	2.85
8	Hail	0.14	0.82	2.86
9	Northern Borders	0.11	0.10	0.00
10	Jazan	1.61	0.17	3.23
11	Najran	6.90	0.30	2.56
12	Al-Bahah	0.82	3.06	2.04
13	Al-Jouf	0.00	0.13	2.44
Total of the Kingdom		1.39	0.52	1.63

Reference: Household Energy Survey 2017



Percentage of Drinking-Water Source (Water Bottles) According to the Type of Houses in the Administrative Regions

Table 71

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	39.25	47.70	46.33	53.81	74.49	50.78
2	Makkah	60.01	69.78	70.16	66.00	70.60	73.36
3	Madinah	26.73	68.62	57.82	64.64	54.52	49.83
4	Al-Qassim	6.49	12.97	20.18	12.88	32.43	73.39
5	Eastern Region	31.00	37.71	58.04	33.46	56.47	27.07
6	Asir	11.28	11.29	18.12	30.58	21.65	24.92
7	Tabuk	49.43	70.94	46.97	60.66	54.90	73.84
8	Hail	15.05	15.04	75.00	27.21	60.98	49.38
9	Northern Borders	8.23	20.56	10.18	14.68	26.27	61.60
10	Jazan	62.43	80.54	53.73	76.25	65.09	40.00
11	Najran	49.60	53.12	42.77	56.33	67.50	79.80
12	Al-Bahah	58.67	71.50	23.07	73.95	67.22	36.63
13	Al-Jouf	7.44	35.58	15.45	31.34	39.01	57.48
Total of the Kingdom		39.89	38.01	43.25	43.28	58.40	56.14

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Water Bottles) According to the Possession of Houses in the Administrative Regions

Table 72

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	45.06	70.86	63.63
2	Makkah	63.64	69.02	79.93
3	Madinah	30.79	59.79	54.63
4	Al-Qassim	10.97	30.60	52.87
5	Eastern Region	40.98	57.19	31.63
6	Asir	17.53	21.33	29.12
7	Tabuk	42.60	62.63	64.75
8	Hail	10.60	59.66	48.22
9	Northern Borders	16.02	20.52	39.49
10	Jazan	65.65	66.53	37.10
11	Najran	42.27	75.81	74.70
12	Al-Bahah	68.48	59.89	38.61
13	Al-Jouf	24.89	42.89	38.21
Total of the Kingdom		39.75	57.95	55.51

Reference: Household Energy Survey 2017



Percentage of Drinking-Water Source (Other) According to the Type of Houses in the Administrative Regions

Table 73

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.18	0.75	0.00	0.76	0.46	0.00
2	Makkah	0.01	0.38	0.00	1.31	0.20	0.00
3	Madinah	0.91	1.06	2.90	0.00	0.00	0.00
4	Al-Qassim	0.00	0.66	0.00	1.30	2.50	3.21
5	Eastern Region	0.68	0.69	0.00	0.00	0.16	0.00
6	Asir	0.00	0.00	0.00	0.00	0.00	0.00
7	Tabuk	0.00	1.56	0.00	0.00	0.22	0.00
8	Hail	0.92	1.67	1.52	1.69	0.47	8.64
9	Northern Borders	0.00	0.00	0.00	0.00	0.15	0.00
10	Jazan	0.00	0.00	0.00	1.59	0.00	0.00
11	Najran	0.00	0.83	0.00	1.68	0.36	0.00
12	Al-Bahah	0.00	0.00	0.00	0.00	0.12	0.00
13	Al-Jouf	0.22	0.61	0.27	0.63	0.27	0.70
Total of the Kingdom		0.22	0.61	0.27	0.63	0.27	0.70

Reference: Household Energy Survey 2017

Percentage of Drinking-Water Source (Other) According to the Possession of Houses in the Administrative Regions

Table 74

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.82	0.40	0.23
2	Makkah	0.30	0.15	0.00
3	Madinah	0.64	0.28	0.00
4	Al-Qassim	0.78	2.09	2.30
5	Eastern Region	0.59	0.14	0.00
6	Asir	0.00	0.00	0.00
7	Tabuk	0.07	0.23	0.00
8	Hail	1.20	1.97	0.71
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.00	0.15	0.00
11	Najran	0.13	0.16	0.00
12	Al-Bahah	0.75	0.00	0.00
13	Al-Jouf	0.00	0.13	0.00
Total of the Kingdom		0.42	0.33	0.24

Reference: Household Energy Survey 2017



Percentage of Drinking-Water Source (Other) According to the Possession of Houses in the Administrative Regions

Table 75

S/N	Administrative Region	Water Storage			
		Cement Reservoir (%)	Tin Reservoir (%)	Fiberglass Reservoir (%)	N/A (%)
1	Riyadh	68.94	1.45	29.45	0.16
2	Makkah	92.81	1.03	4.89	1.27
3	Madinah	94.00	0.88	3.18	1.94
4	Al-Qassim	75.97	3.94	19.97	0.12
5	Eastern Region	28.02	0.71	65.78	5.49
6	Asir	95.01	2.00	2.99	0.00
7	Tabuk	64.43	0.91	34.66	0.00
8	Hail	86.41	2.27	11.14	0.18
9	Northern Borders	78.68	2.15	19.17	0.00
10	Jazan	29.90	20.75	49.35	0.00
11	Najran	79.36	18.05	2.59	0.00
12	Al-Bahah	78.96	5.26	15.78	0.00
13	Al-Jouf	39.64	16.22	43.42	0.72
Total of the Kingdom		70.54	4.18	24.14	1.14

Reference: Household Energy Survey 2017



Percentage of Water Storage (Cement Reservoir) According to the Type of Houses in the Administrative Regions

Table 76

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	37.13	69.92	61.91	72.12	71.85	66.47
2	Makkah	91.07	97.50	91.24	93.83	93.42	87.68
3	Madinah	84.61	99.47	83.04	99.57	99.07	93.16
4	Al-Qassim	69.98	77.40	75.34	76.52	78.56	69.62
5	Eastern Region	24.22	34.91	21.65	42.28	23.13	58.40
6	Asir	80.98	93.20	99.11	99.28	98.82	72.22
7	Tabuk	51.75	37.50	36.52	73.93	73.27	76.38
8	Hail	86.58	95.87	83.33	93.30	79.30	69.63
9	Northern Borders	80.12	77.10	73.81	78.36	79.27	81.20
10	Jazan	28.16	41.08	46.38	30.08	27.49	0.00
11	Najran	65.98	76.92	79.04	85.88	91.14	73.74
12	Al-Bahah	71.23	88.75	82.19	86.01	78.37	79.33
13	Al-Jouf	45.98	53.37	40.81	45.00	36.74	26.06
Total of the Kingdom		66.97	69.95	69.17	74.99	71.64	70.41

Reference: Household Energy Survey 2017

Percentage of Water Storage (Cement Reservoir) According to the Type of Possession in the Administrative Regions

Table 77

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	68.16	70.96	62.25
2	Makkah	94.35	92.91	87.05
3	Madinah	96.20	95.35	78.91
4	Al-Qassim	76.13	76.98	72.85
5	Eastern Region	30.61	23.32	41.41
6	Asir	94.60	96.05	87.26
7	Tabuk	58.70	66.14	79.10
8	Hail	94.07	79.82	66.97
9	Northern Borders	78.71	79.08	75.47
10	Jazan	33.34	24.52	25.81
11	Najran	79.19	84.96	58.75
12	Al-Bahah	84.67	73.25	72.69
13	Al-Jouf	49.54	35.30	18.29
Total of the Kingdom		72.10	70.25	66.67

Reference: Household Energy Survey 2017



Percentage of Water Storage (Tin Reservoir) According to the Type of Houses in the Administrative Regions

Table 78

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	3.73	0.14	8.31	0.37	0.80	9.77
2	Makkah	3.41	0.49	0.70	0.13	0.29	1.93
3	Madinah	2.13	0.00	4.93	0.00	0.17	0.00
4	Al-Qassim	8.63	3.85	0.69	3.42	3.49	1.92
5	Eastern Region	3.08	0.04	0.52	1.33	0.57	0.96
6	Asir	7.61	1.19	0.89	0.61	0.83	11.11
7	Tabuk	1.90	0.00	0.00	0.00	0.11	2.90
8	Hail	4.39	0.33	4.55	0.85	1.29	2.72
9	Northern Borders	4.04	0.94	2.00	0.87	2.14	0.00
10	Jazan	38.41	6.42	21.69	6.08	5.87	60.00
11	Najran	30.77	19.36	11.11	11.90	7.43	26.26
12	Al-Bahah	6.43	1.29	0.78	2.14	4.07	13.13
13	Al-Jouf	34.91	4.39	14.29	11.84	13.06	25.15
Total of the Kingdom		11.44	1.85	4.93	2.08	1.92	8.37

المصدر : مسح الطاقة المنزلي ٢٠١٧م

Percentage of Water Storage (Tin Reservoir) According to the Type of Possession in the Administrative Regions

Table 79

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	1.13	0.84	4.73
2	Makkah	1.18	0.64	3.00
3	Madinah	1.18	0.66	0.61
4	Al-Qassim	4.63	2.48	5.49
5	Eastern Region	0.64	0.61	1.32
6	Asir	1.04	2.89	3.75
7	Tabuk	0.86	0.38	3.69
8	Hail	0.55	2.65	11.43
9	Northern Borders	2.30	1.88	3.25
10	Jazan	25.63	12.28	35.48
11	Najran	16.46	14.33	39.76
12	Al-Bahah	2.76	6.05	10.41
13	Al-Jouf	10.93	16.35	41.87
Total of the Kingdom		4.75	2.97	7.81

Reference: Household Energy Survey 2017



Percentage of Water Storage (Fiberglass Reservoir) According to the Type of Houses in the Administrative Regions

Table 80

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	57.35	29.94	29.04	27.51	27.35	22.98
2	Makkah	4.96	2.01	8.06	5.39	4.58	10.00
3	Madinah	7.01	0.53	12.03	0.43	0.76	5.17
4	Al-Qassim	21.39	18.75	23.97	20.06	17.95	27.18
5	Eastern Region	70.65	51.63	75.77	45.74	73.14	38.73
6	Asir	11.41	5.61	0.00	0.11	0.35	16.67
7	Tabuk	46.35	62.50	63.48	26.07	26.62	20.72
8	Hail	9.03	3.80	12.12	5.85	18.94	26.42
9	Northern Borders	15.84	21.96	24.19	20.77	18.59	18.80
10	Jazan	33.43	52.50	31.93	63.84	66.64	40.00
11	Najran	3.25	3.72	9.85	2.22	1.43	0.00
12	Al-Bahah	22.34	9.96	17.03	11.85	17.56	7.54
13	Al-Jouf	19.11	42.24	44.90	43.16	49.23	46.97
Total of the Kingdom		20.85	25.71	25.64	21.79	25.58	20.51

Reference: Household Energy Survey 2017

Percentage of Water Storage (Fiberglass Reservoir) According to the Type of Possession in the Administrative Regions

Table 81

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	30.64	27.98	32.87
2	Makkah	3.99	4.60	9.77
3	Madinah	2.41	3.14	6.51
4	Al-Qassim	19.24	20.22	21.66
5	Eastern Region	62.31	74.02	39.14
6	Asir	4.36	1.06	8.99
7	Tabuk	40.44	33.48	17.21
8	Hail	5.38	17.53	19.46
9	Northern Borders	18.99	19.04	21.28
10	Jazan	41.03	63.20	38.71
11	Najran	4.35	0.71	1.49
12	Al-Bahah	12.57	20.70	16.90
13	Al-Jouf	39.53	48.10	32.52
Total of the Kingdom		22.37	26.04	21.89

Reference: Household Energy Survey 2017

Percentage of Water Storage (N/A) According to the Type of Houses in the Administrative Regions

Table 82

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	1.79	0.00	0.74	0.00	0.00	0.78
2	Makkah	0.56	0.00	0.00	0.65	1.71	0.39
3	Madinah	6.25	0.00	0.00	0.00	0.00	1.67
4	Al-Qassim	0.00	0.00	0.00	0.00	0.00	1.28
5	Eastern Region	2.05	13.42	2.06	10.65	3.16	1.91
6	Asir	0.00	0.00	0.00	0.00	0.00	0.00
7	Tabuk	0.00	0.00	0.00	0.00	0.00	0.00
8	Hail	0.00	0.00	0.00	0.00	0.47	1.23
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.00	0.00	0.00	0.00	0.00	0.00
11	Najran	0.00	0.00	0.00	0.00	0.00	0.00
12	Al-Bahah	0.00	0.00	0.00	0.00	0.00	0.00
13	Al-Jouf	0.00	0.00	0.00	0.00	0.97	1.82
Total of the Kingdom		0.95	2.51	0.27	1.14	0.94	0.82

Reference: Household Energy Survey 2017

Percentage of Water Storage (N/A) According to the Type of Possession in the Administrative Regions

Table 83

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.07	0.22	0.15
2	Makkah	0.48	1.85	0.18
3	Madinah	0.21	0.85	13.97
4	Al-Qassim	0.00	0.32	0.00
5	Eastern Region	6.44	2.05	18.13
6	Asir	0.00	0.00	0.00
7	Tabuk	0.00	0.00	0.00
8	Hail	0.00	0.00	2.14
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.00	0.00	0.00
11	Najran	0.00	0.00	0.00
12	Al-Bahah	0.00	0.00	0.00
13	Al-Jouf	0.00	0.25	7.32
Total of the Kingdom		0.80	0.81	4.08

Reference: Household Energy Survey 2017

Percentage of Houses Sanitation Type in the Administrative Regions

Table 84

S/N	Administrative Region	Type of Sanitation			
		Public Network (%)	Private Network (%)	Manhole (%)	N/A (%)
1	Riyadh	73.62	0.81	25.32	0.25
2	Makkah	59.21	0.57	40.12	0.10
3	Madinah	50.39	3.26	45.55	0.80
4	Al-Qassim	66.21	0.15	33.42	0.22
5	Eastern Region	85.22	0.73	13.91	0.14
6	Asir	44.37	0.14	55.27	0.22
7	Tabuk	55.63	0.11	42.82	1.44
8	Hail	29.52	0.31	70.12	0.05
9	Northern Borders	40.25	0.00	59.69	0.06
10	Jazan	7.77	0.17	91.82	0.24
11	Najran	5.05	4.86	89.11	0.98
12	Al-Bahah	2.09	1.24	96.46	0.21
13	Al-Jouf	41.52	0.12	58.06	0.30
Total of the Kingdom		59.96	0.83	38.94	0.27

Reference: Household Energy Survey 2017



Percentage of Sanitation Type (Public Network) According to the Type of Houses in the Administrative Regions

Table 85

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	29.06	72.32	39.09	75.77	84.57	37.24
2	Makkah	33.63	24.24	64.47	39.46	70.98	56.22
3	Madinah	9.57	89.37	55.86	91.35	64.55	75.04
4	Al-Qassim	23.11	71.95	66.98	68.74	84.25	34.45
5	Eastern Region	67.66	84.58	88.79	70.69	90.15	66.93
6	Asir	9.66	16.19	40.53	45.97	64.47	19.44
7	Tabuk	26.54	46.86	48.11	66.82	79.36	20.98
8	Hail	4.77	45.24	12.79	46.88	44.04	32.11
9	Northern Borders	30.79	43.85	39.71	34.93	46.04	11.91
10	Jazan	3.38	14.89	11.55	13.66	9.63	0.00
11	Najran	0.58	21.92	13.77	4.75	4.58	0.00
12	Al-Bahah	0.93	0.82	1.63	10.58	1.43	0.00
13	Al-Jouf	53.28	31.22	62.82	39.24	42.24	28.55
Total of the Kingdom		24.15	61.61	49.81	62.01	72.38	43.95

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (Public Network) According to the Type of Possession in the Administrative Regions

Table 86

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	65.33	82.50	59.47
2	Makkah	38.14	73.43	49.09
3	Madinah	35.46	63.22	53.68
4	Al-Qassim	57.63	82.26	50.77
5	Eastern Region	82.27	87.84	82.87
6	Asir	28.63	60.55	44.93
7	Tabuk	41.78	74.00	22.98
8	Hail	28.80	33.48	16.49
9	Northern Borders	38.18	37.24	77.87
10	Jazan	6.73	9.95	0.00
11	Najran	4.95	6.07	1.73
12	Al-Bahah	2.60	1.83	0.00
13	Al-Jouf	42.69	41.79	31.94
Total of the Kingdom		46.24	71.94	54.43

Reference: Household Energy Survey 2017



Percentage of Sanitation Type (Private Network) According to the Type of Houses in the Administrative Regions

Table 87

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.00	0.60	0.00	0.63	1.20	0.00
2	Makkah	0.67	0.00	0.00	0.00	0.66	0.00
3	Madinah	9.27	2.14	2.98	0.00	0.42	1.66
4	Al-Qassim	0.69	0.00	0.00	0.00	0.20	0.00
5	Eastern Region	5.48	0.12	0.00	0.00	0.37	2.54
6	Asir	0.33	0.28	0.00	0.00	0.10	0.00
7	Tabuk	0.00	0.00	0.00	0.00	0.21	0.00
8	Hail	0.35	0.26	0.00	0.86	0.26	0.00
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.00	0.00	0.00	0.00	0.47	0.00
11	Najran	0.20	3.72	0.00	9.48	9.43	0.91
12	Al-Bahah	4.62	0.00	1.61	0.84	0.37	0.46
13	Al-Jouf	0.51	0.00	0.00	0.00	0.10	0.00
Total of the Kingdom		1.86	0.40	0.24	0.48	0.75	0.46

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (Private Network) According to the Type of Possession in the Administrative Regions

Table 88

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.61	0.48	2.97
2	Makkah	0.63	0.61	0.00
3	Madinah	6.77	0.67	0.46
4	Al-Qassim	0.00	0.37	0.00
5	Eastern Region	0.75	0.67	0.98
6	Asir	0.09	0.20	0.00
7	Tabuk	0.14	0.10	0.00
8	Hail	0.23	0.52	0.00
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.09	0.30	0.00
11	Najran	2.42	5.58	12.53
12	Al-Bahah	1.77	0.51	0.00
13	Al-Jouf	0.16	0.11	0.00
Total of the Kingdom		1.05	0.60	1.36

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (Manhole) According to the Type of Houses in the Administrative Regions

Table 89

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	69.83	26.68	60.91	23.44	14.18	61.99
2	Makkah	65.63	75.38	35.53	60.54	28.31	42.92
3	Madinah	78.90	8.49	39.67	8.65	34.95	22.47
4	Al-Qassim	76.20	28.05	33.02	31.26	14.94	65.55
5	Eastern Region	26.86	15.30	11.21	28.93	9.33	29.89
6	Asir	89.70	83.25	59.47	53.73	35.34	77.78
7	Tabuk	73.14	53.11	50.15	33.18	20.33	60.93
8	Hail	94.88	54.50	87.21	52.26	55.48	67.89
9	Northern Borders	69.21	56.15	60.29	65.07	53.82	88.09
10	Jazan	96.34	85.11	88.45	85.53	89.73	100.00
11	Najran	98.63	74.36	86.23	84.98	85.66	89.96
12	Al-Bahah	93.99	99.18	96.76	88.58	98.11	98.56
13	Al-Jouf	46.21	68.78	37.18	60.76	57.52	68.85
Total of the Kingdom		73.50	37.77	49.79	37.32	26.75	53.74

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (Manhole) According to the Type of Possession in the Administrative Regions

Table 90

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	33.72	16.93	36.91
2	Makkah	61.12	25.88	50.73
3	Madinah	56.91	35.92	42.37
4	Al-Qassim	42.37	17.18	48.41
5	Eastern Region	16.91	11.40	15.56
6	Asir	71.01	39.16	53.81
7	Tabuk	57.80	25.70	63.19
8	Hail	70.97	65.85	83.51
9	Northern Borders	61.69	62.76	22.13
10	Jazan	92.80	89.75	100.00
11	Najran	92.38	87.88	79.77
12	Al-Bahah	95.36	97.66	99.67
13	Al-Jouf	56.99	57.63	68.06
Total of the Kingdom		52.51	27.35	42.97

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (N/A) According to the Type of Houses in the Administrative Regions

Table 91

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	1.11	0.40	0.00	0.16	0.05	0.77
2	Makkah	0.07	0.38	0.00	0.00	0.05	0.86
3	Madinah	2.26	0.00	1.49	0.00	0.08	0.83
4	Al-Qassim	0.00	0.00	0.00	0.00	0.61	0.00
5	Eastern Region	0.00	0.00	0.00	0.38	0.15	0.64
6	Asir	0.31	0.28	0.00	0.30	0.09	2.78
7	Tabuk	0.32	0.00	1.74	0.00	0.10	18.09
8	Hail	0.00	0.00	0.00	0.00	0.22	0.00
9	Northern Borders	0.00	0.00	0.00	0.00	0.14	0.00
10	Jazan	0.28	0.00	0.00	0.81	0.17	0.00
11	Najran	0.59	0.00	0.00	0.79	0.33	9.13
12	Al-Bahah	0.46	0.00	0.00	0.00	0.09	0.98
13	Al-Jouf	0.00	0.00	0.00	0.00	0.14	2.60
Total of the Kingdom		0.50	0.22	0.16	0.19	0.10	1.85

Reference: Household Energy Survey 2017

Percentage of Sanitation Type (N/A) According to the Type of Possession in the Administrative Regions

Table 92

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.34	0.09	0.65
2	Makkah	0.11	0.08	0.18
3	Madinah	0.86	0.19	3.49
4	Al-Qassim	0.00	0.19	0.82
5	Eastern Region	0.07	0.09	0.59
6	Asir	0.27	0.09	1.26
7	Tabuk	0.28	0.20	13.83
8	Hail	0.00	0.15	0.00
9	Northern Borders	0.13	0.00	0.00
10	Jazan	0.38	0.00	0.00
11	Najran	0.25	0.47	5.97
12	Al-Bahah	0.27	0.00	0.33
13	Al-Jouf	0.16	0.47	0.00
Total of the Kingdom		0.25	0.11	1.24

Reference: Household Energy Survey 2017

Percentage of Houses Waste Disposal Methods in the Administrative Regions

Table 93

S/N	Administrative Region	Waste Disposal Method		
		Public waste Container	combustion	Burial
1	Riyadh	99.65	0.35	0.00
2	Makkah	100.00	0.00	0.00
3	Madinah	98.10	1.89	0.01
4	Al-Qassim	100.00	0.00	0.00
5	Eastern Region	99.97	0.03	0.00
6	Asir	99.72	0.28	0.00
7	Tabuk	99.92	0.08	0.00
8	Hail	99.11	0.81	0.08
9	Northern Borders	100.00	0.00	0.00
10	Jazan	99.77	0.18	0.05
11	Najran	99.20	0.69	0.11
12	Al-Bahah	99.57	0.43	0.00
13	Al-Jouf	99.74	0.26	0.00
Total of the Kingdom		99.66	0.33	0.01

Reference: Household Energy Survey 2017

Percentage Waste Disposal Method (Public waste Container) According to the Type of Houses in the Administrative Regions

Table 94

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	96.42	100.00	97.79	100.00	100.00	98.44
2	Makkah	99.96	100.00	100.00	100.00	100.00	99.61
3	Madinah	94.34	100.00	98.55	100.00	99.92	97.50
4	Al-Qassim	100.00	100.00	100.00	100.00	100.00	100.00
5	Eastern Region	100.00	100.00	100.00	100.00	99.99	99.36
6	Asir	99.56	100.00	98.93	99.97	99.66	100.00
7	Tabuk	99.83	100.00	100.00	100.00	99.96	100.00
8	Hail	97.97	99.13	100.00	100.00	100.00	100.00
9	Northern Borders	100.00	100.00	100.00	100.00	100.00	100.00
10	Jazan	99.73	100.00	98.80	99.20	100.00	100.00
11	Najran	99.48	100.00	100.00	100.00	100.00	89.90
12	Al-Bahah	98.69	100.00	97.97	99.58	100.00	99.43
13	Al-Jouf	100.00	100.00	100.00	100.00	99.64	99.39
Total of the Kingdom		98.89	99.94	99.33	99.94	99.95	98.76

Reference: Household Energy Survey 2017

Percentage Waste Disposal Method (Public waste Container) According to the Type of Possession in the Administrative Regions

Table 95

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	99.87	100.00	97.71
2	Makkah	99.97	100.00	99.82
3	Madinah	98.59	100.00	87.34
4	Al-Qassim	100.00	100.00	100.00
5	Eastern Region	100.00	100.00	99.76
6	Asir	99.73	99.87	97.47
7	Tabuk	99.86	99.95	100.00
8	Hail	98.63	99.59	100.00
9	Northern Borders	100.00	100.00	100.00
10	Jazan	99.68	99.93	100.00
11	Najran	99.55	100.00	94.49
12	Al-Bahah	99.19	100.00	99.93
13	Al-Jouf	100.00	100.00	96.75
Total of the Kingdom		99.66	99.97	98.13

Reference: Household Energy Survey 2017



Percentage Waste Disposal Method (Combustion) According to the Type of Houses in the Administrative Regions

Table 96

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	3.58	0.00	2.21	0.00	0.00	1.56
2	Makkah	0.04	0.00	0.00	0.00	0.00	0.39
3	Madinah	5.66	0.00	1.45	0.00	0.08	2.33
4	Al-Qassim	0.00	0.00	0.00	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.00	0.00	0.01	0.64
6	Asir	0.44	0.00	1.07	0.03	0.33	0.00
7	Tabuk	0.17	0.00	0.00	0.00	0.04	0.00
8	Hail	1.83	0.82	0.00	0.00	0.00	0.00
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.16	0.00	1.20	0.80	0.00	0.00
11	Najran	0.39	0.00	0.00	0.00	0.00	9.09
12	Al-Bahah	1.31	0.00	2.03	0.42	0.00	0.57
13	Al-Jouf	0.00	0.00	0.00	0.00	0.36	0.61
Total of the Kingdom		1.07	0.07	0.67	0.06	0.05	1.17

Reference: Household Energy Survey 2017

Percentage Waste Disposal Method (Combustion) According to the Type of Possession in the Administrative Regions

Table 97

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.13	0.00	2.29
2	Makkah	0.03	0.00	0.18
3	Madinah	1.41	0.00	12.58
4	Al-Qassim	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.24
6	Asir	0.27	0.12	2.53
7	Tabuk	0.14	0.05	0.00
8	Hail	1.28	0.33	0.00
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.25	0.07	0.00
11	Najran	0.23	0.00	5.51
12	Al-Bahah	0.81	0.00	0.07
13	Al-Jouf	0.00	0.00	3.25
Total of the Kingdom		0.31	0.03	1.86

Reference: Household Energy Survey 2017



Percentage Waste Disposal Method (Burial) According to the Type of Houses in the Administrative Regions

Table 98

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	0.00	0.00	0.00	0.00	0.00	0.00
2	Makkah	0.00	0.00	0.00	0.00	0.00	0.00
3	Madinah	0.00	0.00	0.00	0.00	0.00	0.17
4	Al-Qassim	0.00	0.00	0.00	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.00	0.00	0.00	0.00
6	Asir	0.00	0.00	0.00	0.00	0.01	0.00
7	Tabuk	0.00	0.00	0.00	0.00	0.00	0.00
8	Hail	0.20	0.05	0.00	0.00	0.00	0.00
9	Northern Borders	0.00	0.00	0.00	0.00	0.00	0.00
10	Jazan	0.11	0.00	0.00	0.00	0.00	0.00
11	Najran	0.13	0.00	0.00	0.00	0.00	1.01
12	Al-Bahah	0.00	0.00	0.00	0.00	0.00	0.00
13	Al-Jouf	0.00	0.00	0.00	0.00	0.00	0.00
Total of the Kingdom		0.04	0.00	0.00	0.00	0.00	0.07

Reference: Household Energy Survey 2017

Percentage Waste Disposal Method (Burial) According to the Type of Possession in the Administrative Regions

Table 99

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	0.00	0.00	0.00
2	Makkah	0.00	0.00	0.00
3	Madinah	0.00	0.00	0.09
4	Al-Qassim	0.00	0.00	0.00
5	Eastern Region	0.00	0.00	0.00
6	Asir	0.00	0.01	0.00
7	Tabuk	0.00	0.00	0.00
8	Hail	0.09	0.08	0.00
9	Northern Borders	0.00	0.00	0.00
10	Jazan	0.07	0.00	0.00
11	Najran	0.22	0.00	0.00
12	Al-Bahah	0.00	0.00	0.00
13	Al-Jouf	0.00	0.00	0.00
Total of the Kingdom		0.03	0.00	0.01

Reference: Household Energy Survey 2017

Percentage of Houses Waste Disposal Frequency in the Administrative Regions

Table 100

S/N	Administrative Region	Waste Disposal number of times		
		Daily (%)	More Than Once a Week (%)	Once a Week (%)
1	Riyadh	61.50	35.13	3.37
2	Makkah	36.15	52.61	11.24
3	Madinah	48.71	36.79	14.50
4	Al-Qassim	66.92	28.96	4.12
5	Eastern Region	62.43	31.53	6.04
6	Asir	31.14	43.67	25.19
7	Tabuk	28.66	55.69	15.65
8	Hail	55.27	29.83	14.90
9	Northern Borders	72.50	24.98	2.52
10	Jazan	66.03	26.89	7.08
11	Najran	34.91	51.57	13.52
12	Al-Bahah	35.68	48.94	15.38
13	Al-Jouf	45.48	45.92	8.60
Total of the Kingdom		49.90	40.64	9.46

Reference: Household Energy Survey 2017



Percentage of Waste Disposal Frequency (Daily) According to the Type of Houses in the Administrative Regions

Table 101

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	59.80	73.29	33.51	61.82	58.66	43.76
2	Makkah	27.78	39.39	35.82	41.74	39.19	22.76
3	Madinah	32.68	66.94	57.80	47.71	54.86	55.99
4	Al-Qassim	51.78	82.82	57.24	79.81	55.76	71.18
5	Eastern Region	86.43	74.85	57.55	65.64	56.77	32.10
6	Asir	23.50	19.59	29.89	28.00	38.68	16.66
7	Tabuk	30.84	53.14	23.71	40.27	29.05	4.35
8	Hail	48.13	67.86	41.44	59.66	54.95	44.58
9	Northern Borders	84.35	75.73	73.91	73.61	65.60	48.28
10	Jazan	65.69	74.28	84.23	55.78	64.16	54.12
11	Najran	22.14	45.74	43.84	49.09	41.72	21.30
12	Al-Bahah	17.16	31.40	20.07	59.74	42.43	25.58
13	Al-Jouf	52.58	56.10	71.29	53.75	43.74	10.79
Total of the Kingdom		40.86	65.78	43.51	56.50	48.73	37.13

Reference: Household Energy Survey 2017

Percentage of Waste Disposal Frequency (Daily) According to the Type of Possession in the Administrative Regions

Table 102

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	65.68	60.73	51.60
2	Makkah	33.76	40.00	19.20
3	Madinah	41.53	57.12	39.73
4	Al-Qassim	73.68	62.49	61.05
5	Eastern Region	72.63	58.96	44.62
6	Asir	29.17	33.27	29.99
7	Tabuk	37.84	24.25	7.99
8	Hail	56.21	56.64	42.11
9	Northern Borders	82.09	70.84	17.94
10	Jazan	65.58	67.18	58.08
11	Najran	38.59	33.88	23.15
12	Al-Bahah	34.93	42.77	25.07
13	Al-Jouf	50.81	43.30	25.82
Total of the Kingdom		51.86	50.34	39.19

Reference: Household Energy Survey 2017

Percentage of Waste Disposal Frequency (More Than Once a Week) According to the Type of Houses in the Administrative Regions

Table 103

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	31.02	25.72	55.60	36.28	38.43	41.65
2	Makkah	51.25	58.32	49.47	56.28	52.70	50.77
3	Madinah	41.15	28.85	39.23	45.02	36.14	19.10
4	Al-Qassim	38.20	16.74	36.70	19.76	39.03	22.38
5	Eastern Region	12.19	24.66	38.41	33.59	35.44	37.49
6	Asir	45.17	51.99	22.07	54.08	39.78	41.67
7	Tabuk	51.80	46.86	56.03	56.41	58.57	55.14
8	Hail	25.79	26.48	52.68	33.70	35.66	21.08
9	Northern Borders	14.60	23.54	24.13	25.00	30.84	23.82
10	Jazan	24.34	24.36	15.77	42.61	28.87	22.94
11	Najran	60.11	51.22	45.20	42.93	47.78	45.24
12	Al-Bahah	51.38	58.68	65.39	35.17	45.56	56.26
13	Al-Jouf	46.72	40.00	28.71	39.64	48.52	49.59
Total of the Kingdom		41.07	30.78	42.73	39.43	43.35	39.95

Reference: Household Energy Survey 2017

Percentage of Waste Disposal Frequency (More Than Once a Week) According to the Type of Possession in the Administrative Regions

Table 104

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	32.10	36.21	39.95
2	Makkah	55.49	50.41	55.87
3	Madinah	39.46	34.77	34.92
4	Al-Qassim	23.48	34.11	30.32
5	Eastern Region	25.65	34.56	36.97
6	Asir	46.98	40.05	46.29
7	Tabuk	50.84	60.17	54.89
8	Hail	29.28	31.60	25.74
9	Northern Borders	17.25	25.38	76.28
10	Jazan	26.51	27.08	38.70
11	Najran	52.88	52.58	42.30
12	Al-Bahah	50.19	41.84	56.98
13	Al-Jouf	45.17	45.40	54.60
Total of the Kingdom		39.36	41.20	43.07

Reference: Household Energy Survey 2017

Percentage of Waste Disposal Frequency (Once a Week) According to the Type of Houses in the Administrative Regions

Table 105

S/N	Administrative Region	Type of Housing Unit					
		Traditional House (%)	Villa (%)	Storey in a Traditional House (%)	Storey in a Villa (%)	Apartment (%)	Other (%)
1	Riyadh	9.18	0.99	10.89	1.90	2.91	14.59
2	Makkah	20.97	2.29	14.71	1.98	8.11	26.47
3	Madinah	26.17	4.22	2.98	7.27	9.00	24.91
4	Al-Qassim	10.02	0.44	6.06	0.43	5.21	6.44
5	Eastern Region	1.38	0.49	4.04	0.77	7.79	30.41
6	Asir	31.33	28.42	48.04	17.92	21.54	41.67
7	Tabuk	17.36	0.00	20.26	3.32	12.38	40.51
8	Hail	26.08	5.66	5.88	6.64	9.39	34.34
9	Northern Borders	1.05	0.73	1.96	1.39	3.56	27.90
10	Jazan	9.97	1.36	0.00	1.61	6.97	22.94
11	Najran	17.75	3.04	10.96	7.98	10.50	33.46
12	Al-Bahah	31.46	9.92	14.54	5.09	12.01	18.16
13	Al-Jouf	0.70	3.90	0.00	6.61	7.74	39.62
Total of the Kingdom		18.07	3.44	13.76	4.06	7.92	22.92

Reference: Household Energy Survey 2017

Percentage of Waste Disposal Frequency (Once a Week) According to the Type of Possession in the Administrative Regions

Table 106

S/N	Administrative Region	Possession Type		
		Owned (%)	Rented (%)	Offered by Employer (%)
1	Riyadh	2.22	3.06	8.45
2	Makkah	10.75	9.59	24.93
3	Madinah	19.01	8.11	25.35
4	Al-Qassim	2.84	3.40	8.63
5	Eastern Region	1.72	6.48	18.41
6	Asir	23.85	26.68	23.72
7	Tabuk	11.32	15.58	37.12
8	Hail	14.51	11.76	32.15
9	Northern Borders	0.67	3.78	5.78
10	Jazan	7.91	5.74	3.22
11	Najran	8.53	13.54	34.55
12	Al-Bahah	14.88	15.39	17.95
13	Al-Jouf	4.02	11.30	19.58
Total of the Kingdom		8.79	8.45	17.74

Reference: Household Energy Survey 2017