



الهيئة العامة للإحصاء
General Authority for Statistics

Percentage of electricity production capacity & the
amount of electricity produced based on the used
technology 2010 - 2018





Indicator Description:

Due to the importance of data in the energy sector and the existence of many requirements on statistical data that contribute to the achievement of the vision for the Kingdom 2030, as well as its important to researchers and decision makers. Percentage of electricity production capacity & the amount of electricity produced based on the used technology is considering as one of the most important indicators of energy security, Safe and adequate energy resources for domestic consumption and foreign trade.

Index collection method:

Percentage of electricity production capacity & the amount of electricity produced based on the used technology indicator is depending on indicators from administrative records. Data are collected from the producer of the data such as the Ministry of Energy, Industry and Mineral Resources and the Electricity and Co-Generation Regulatory Authority.

Indicator Calculation Method:

The indicator calculated through this formula:

- Percentage of electricity production by technology
$$= \frac{\text{Productivity of each electricity plant by technology}}{\text{total design capacity}} * 100$$
- If the unit of the indicator components are different, conversion factors are used.



Table & Chart:

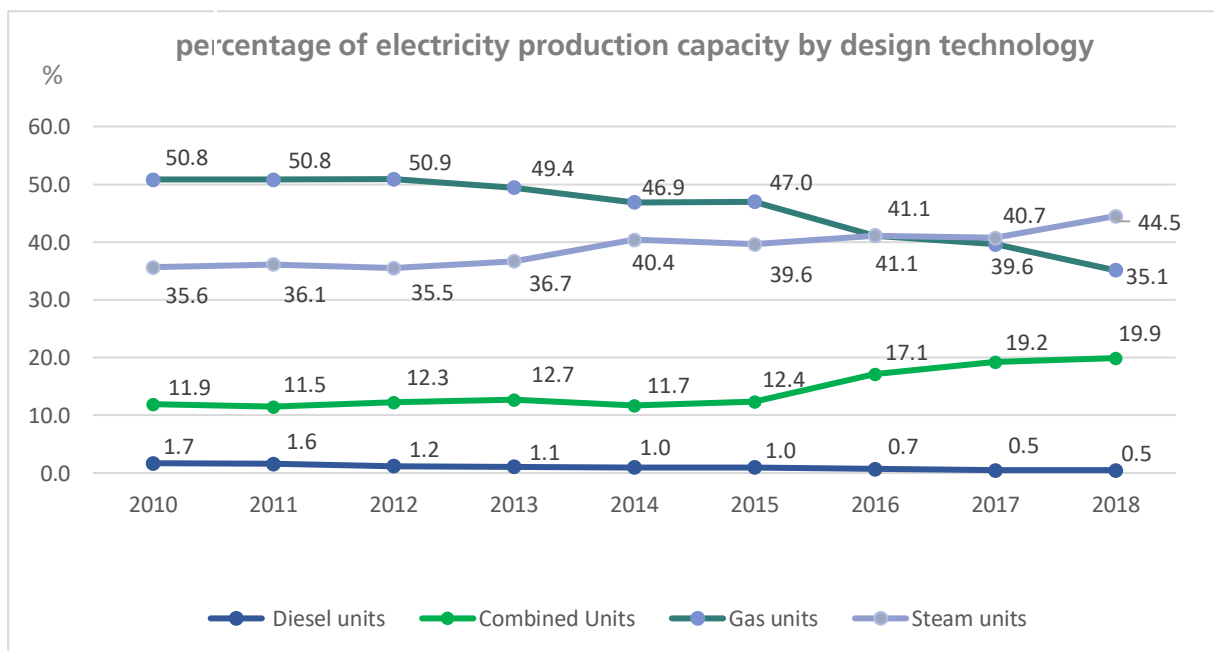
- Percentage of electricity production capacity by technology

| years | Nominal Capacity Indicator | | | |
|-------|----------------------------|----------------|-----------|-------------|
| | Diesel units | Combined Units | Gas units | Steam units |
| | unit | | | |
| | % | | | |
| 2010 | 1.7 | 11.9 | 50.8 | 35.6 |
| 2011 | 1.6 | 11.5 | 50.8 | 36.1 |
| 2012 | 1.2 | 12.3 | 50.9 | 35.5 |
| 2013 | 1.1 | 12.7 | 49.4 | 36.7 |
| 2014 | 1.0 | 11.7 | 46.9 | 40.4 |
| 2015 | 1.0 | 12.4 | 47.0 | 39.6 |
| 2016 | 0.7 | 17.1 | 41.1 | 41.1 |
| 2017 | 0.5 | 19.2 | 39.6 | 40.7 |
| 2018 | 0.5 | 19.9 | 35.1 | 44.5 |

Reference: Electricity & Cogeneration Regulatory Authority



2018





Summary:

The percentage of electricity production by nominal capacity (gas units) in 2018, has reached (35.1%) compared to 2010 which was (50.8%), while the percentage of electricity production by nominal capacity (steam units) in 2018 has reached (44.5%), which is higher than it was in 2010 (35.6%). Whereas the percentage of electricity production by stations that use diesel and combined units' technology in 2018 is (20.4%).





- The amount of electricity production by technology

| years | Nominal Capacity Indicator | | | | |
|-------|----------------------------|----------------|-----------|-------------|---|
| | Diesel units | Combined Units | Gas units | Steam units | The total design capacity of electricity production |
| | unit | | | | |
| | GWH | | | | |
| 2010 | 1.0 | 7 | 30 | 21 | 59.0 |
| 2011 | 1.0 | 7 | 31 | 22 | 61.0 |
| 2012 | 0.8 | 8 | 33 | 23 | 64.8 |
| 2013 | 0.8 | 9 | 35 | 26 | 70.8 |
| 2014 | 0.8 | 9 | 36 | 31 | 76.8 |
| 2015 | 0.8 | 10 | 38 | 32 | 80.8 |
| 2016 | 0.6 | 15 | 36 | 36 | 87.6 |
| 2017 | 0.4 | 17 | 35 | 36 | 88.4 |
| 2018 | 0.4 | 17 | 30 | 38 | 85.4 |

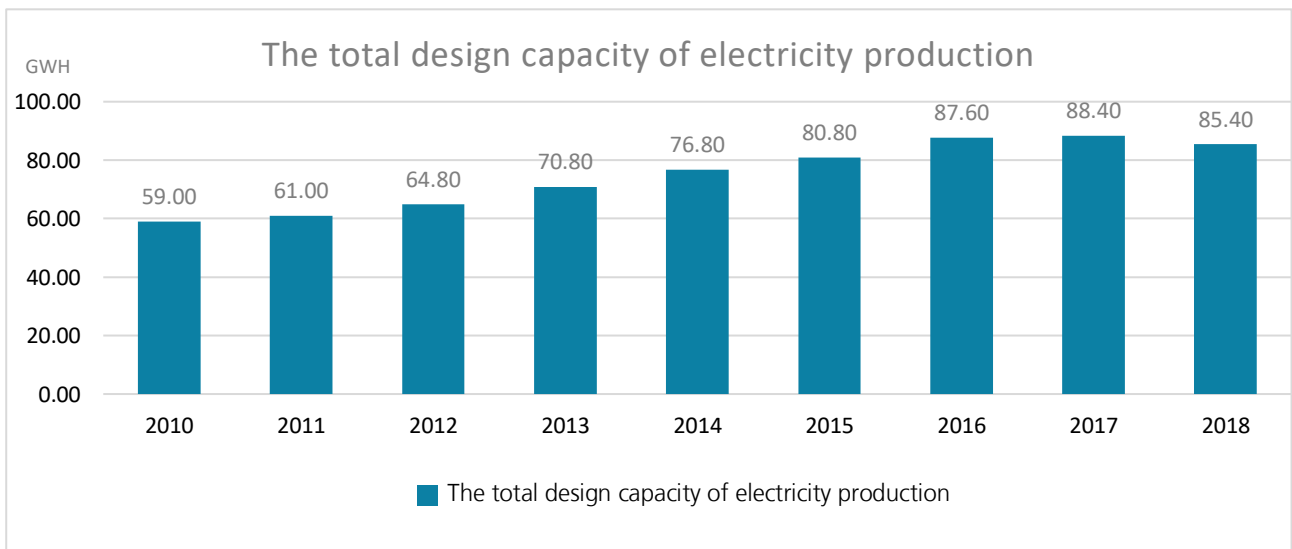
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Energy Statistics



2018

Reference: Electricity & Cogeneration Regulatory Authority





Summary:

The total design capacity of electricity production by nominal capacity (Diesel units, Combined units, gas units, steam units) has reached (85.4) GWh in 2018 compared to