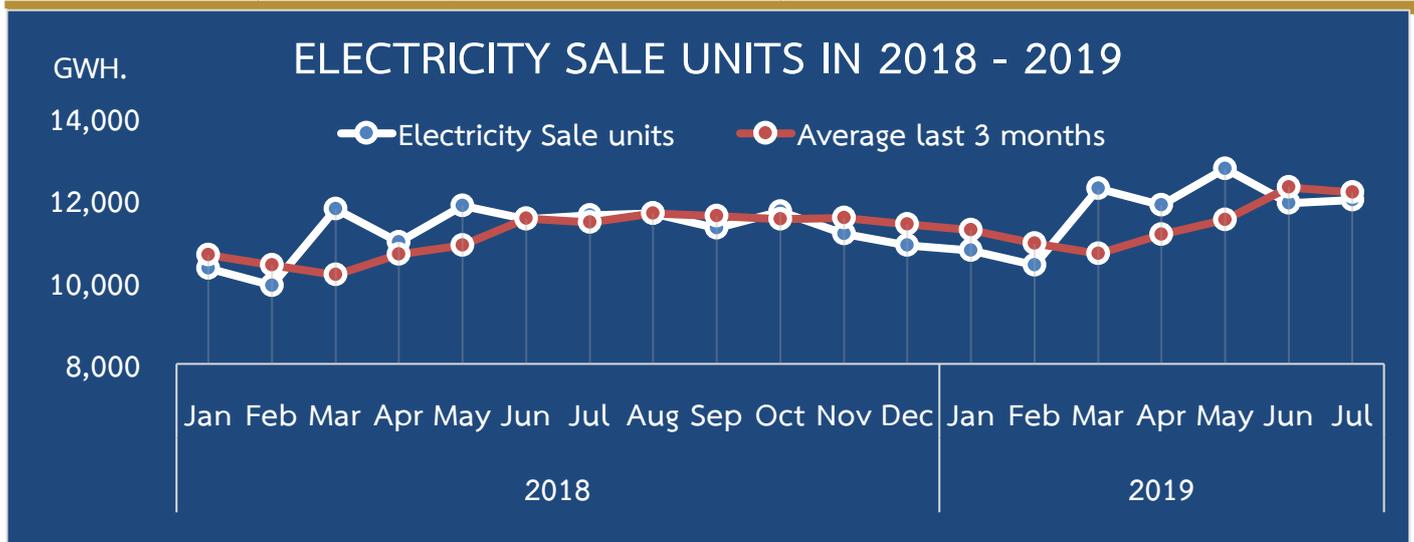


The Electricity Sales Report of PEA in July 2019



The electricity sale units of PEA in July 2019 has increased at 3.28% YoY, owing to a growth of domestic demand for public consumption in durable and nondurable goods. Furthermore, there was an enlargement of government expenditure. Tourism sector also surged following Chinese and Indian tourists which impacted in hotel, commercial and transportation segments.

According to the chart, the forecast growth rate in August 2019 has enhance. But, sale units will be less than the last 3 months average because of the lower temperature from higher precipitation. Although, domestic consumption and investment of public and private along with tourism still expand.



In July 2019, PEA had total electricity sales 11,993.95 million units. It magnified 3.28% YoY.

The residential sector went up 10.21% YoY. Now that, there was higher temperature.

Growth of small and medium industrial sector varied 6.29% and 3.96% YoY, respectively, following a surge of domestic demand and private expenditure for consumption and investment. As, large industrial sector decreased 1.80% YoY owing to a deceleration of global economic, steel, electronic and automotive segments.

Specific business grew 5.51% YoY, due to a jump of services, rental and hotel from the expansion of Chinese and Indian tourists.

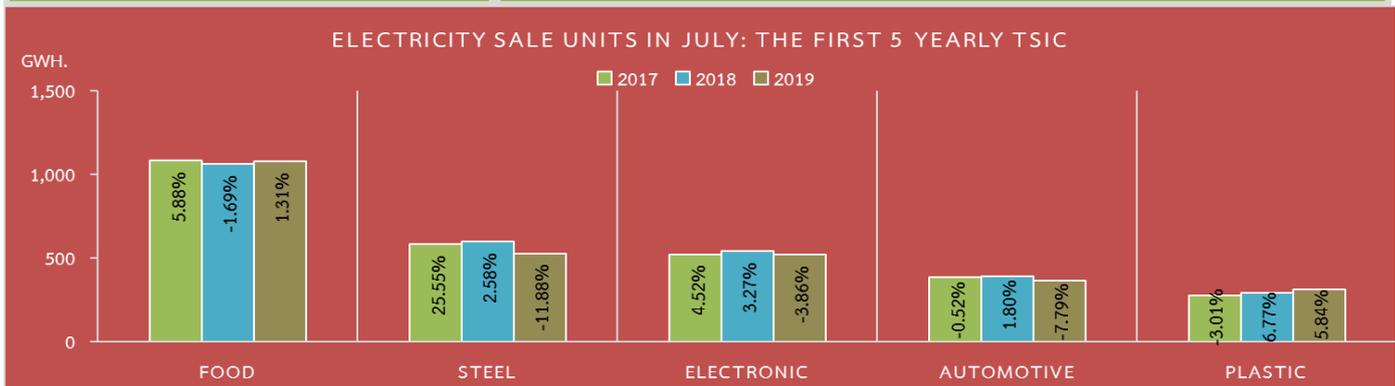
To compare the growth rate between 2019 with base year 2016, it has found that the electricity sales inflated at high level.

ELECTRICITY SALE UNITS: PERCENTAGE OF CUSTOMERS GROUP IN JULY



Large Customers	Small Customers	Governmental and Others
<p>Growth rate dipped 0.94% YoY. Thanks to, a drop of industrial sector at 2.60% YoY from electronics, steel and automotive. The causes were economic deceleration, decreasingly exporting because of trade barrier between U. S. A. and China, including appreciation of Baht currency.</p> <p>While, large commercial sector rose 5.40% YoY. Now that, there were a continually visitation of tourists and a surge of domestic demand from high purchasing power initiating electricity consumption of retail, wholesale and hotel being up.</p> <p>Accordingly, the electricity sales heightened at 4.83% YoY (compared with base year 2016).</p>	<p>Enlarged by 9.33% YoY due to a surge of residential sector at 10.21% YoY from higher temperature than previous year. Besides, small commercial sector varied 6.81% YoY following the domestic demand.</p> <p>To compare with 2016, the electricity sales intensified by 20.74% YoY.</p>	<p>Increased by 7.91% YoY, owing to higher temperature which caused a rise of electricity demand for air conditioner in offices. Moreover, the electricity consumption of pumping for agriculture and free electricity magnified 85.41% and 4.89% YoY.</p>

Growth (Up/Down) of electricity sale units compare with previous years



Manufacturing sector plunged by 3.12% YoY. There were 5 segments in manufacturing sector.

Food Segment expanded 1.31% YoY. Seeing that, electricity consumption in ice factory, which was 20.94% of food segment surged 9.11% YoY. While, Rice mill being 9.47% of food segment decreased 18.93% YoY.

Steel Segment declined by 11.88% YoY owing to a fall of manufacture of iron, steel and rolling mill easing 17.54% YoY. Even if casting of iron grew up 3.78% YoY.

Electronics segment ebbed 3.86% YoY, resulting from downtrend of global exportation for electronics and customers' loss to SPP.

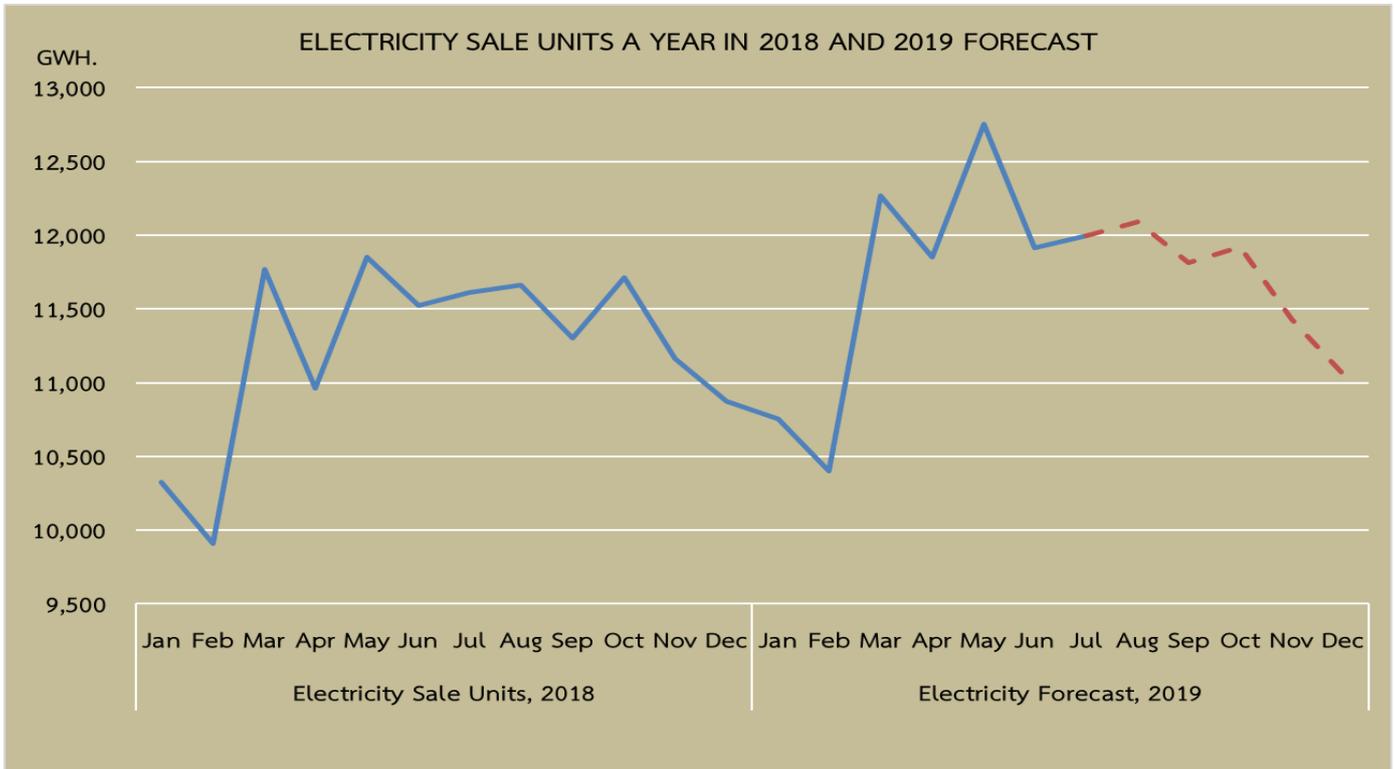
Automotive Industry diminished by 7.79% YoY following less manufacture of automotive, component, equipment and others. These related to a fall of export value in automotive and component.

Plastic Segment accumulated by 5.84% YoY, by reason of an export of plastic products to domestic and international.

Sales & Hotel sector increased by 4.47% YoY due to domestic demand for department store growing 0.85% YoY. Though, the number of tourists who visited Thailand went up and retail stores varied 7.22% YoY causing the electricity consumption in hotel segment heightening by 1.82% YoY.

The Social Services sector rose 6.93% YoY, in consequence of electrical consumption in hospitals and universities expanded 7.41% and 13.25% YoY, respectively.

Agricultural sector varied by 9.97% YoY, on account of livestock's electricity consumption being up 8.27% YoY. While, electricity demand of pumping for agriculture and inland fisheries also surged.



Electricity Sale Forecast

PEA forecasts the electricity sale situation in 2019 to improve. The committee approximated (approximated in September 2018) the electricity sale situation in 2019 that will be expanded 3.81% YoY. There are many factors to impact the electricity sales 2019.

Positive factors

1. The domestic demand expanded from e-commerce, which was more online selling.
2. Extension of waiver Visa on arrival for 21 countries due to 31st October 2019.
3. From restructured in production and administration in public and private organization, there applied new technologies like Big Data, AI, machine Learning, Internet of Things (IoT) and 5G.
4. The improvement of infrastructure project in EEC was the factor supporting a confident for domestic and foreign investors.
5. After the election, the political situation was more stable.

Negative factors

1. Trade barrier between U.S.A. and China, including South Korea and Japan. Moreover, there was political situation between China and Hong Kong.
2. Supportive policies for SPP Cogeneration, which encourage private sector to play a role in generating electricity for distribution. Then, there was more and more losing customers to SPP.
3. Britain exiting the EU (Brexit) still haven't had a conclusion.
4. The Chinese, European and Russian tourists plummeted from economic deceleration.
5. Baht currency appreciated which caused a decline of competitiveness for export.
6. Climate variability from natural disasters.