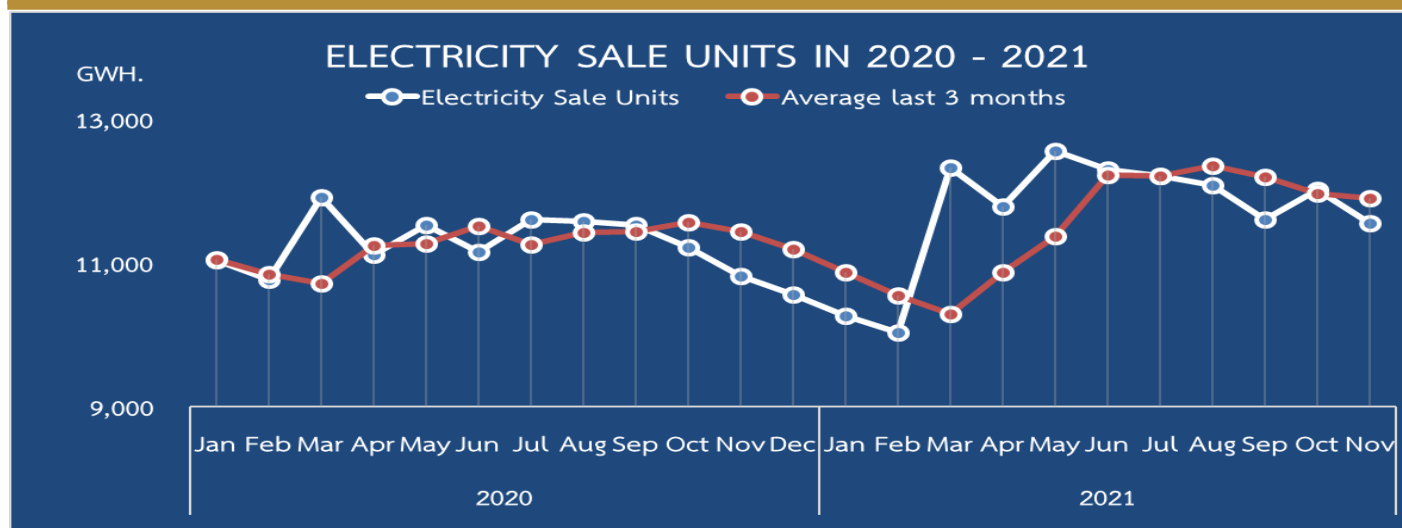
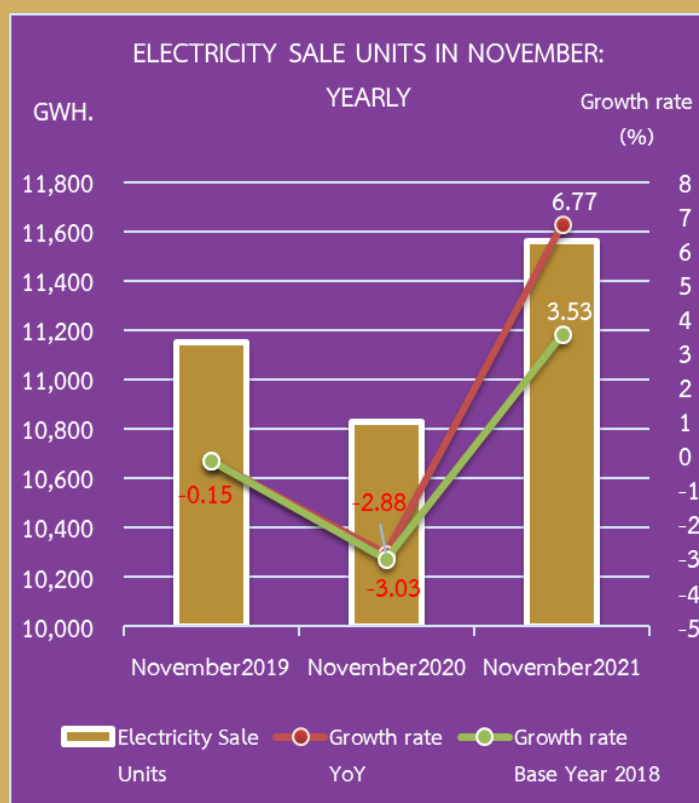


The Electricity Sales Report of PEA in November 2021



In November 2021, PEA had a total of 11,599.48 million units of electricity sales which highly increased at 6.77% YoY according to economic driving forces from the internal and external economy, i.e., export to partners, rising private consumption, an easing in epidemic control measures, vaccination, short-term government spending stimulus, unwinding of supply chain disruption and an increase in residential's electricity consumption.

Expected in December 2021, Electricity consumption will slightly fall from the last month due to cold weather during the end of the year. Nonetheless, there are positive factors from private consumption and export following economic growth and global trade because there is an easing in epidemic control measures, government spending stimulus and vaccinated booster dose.

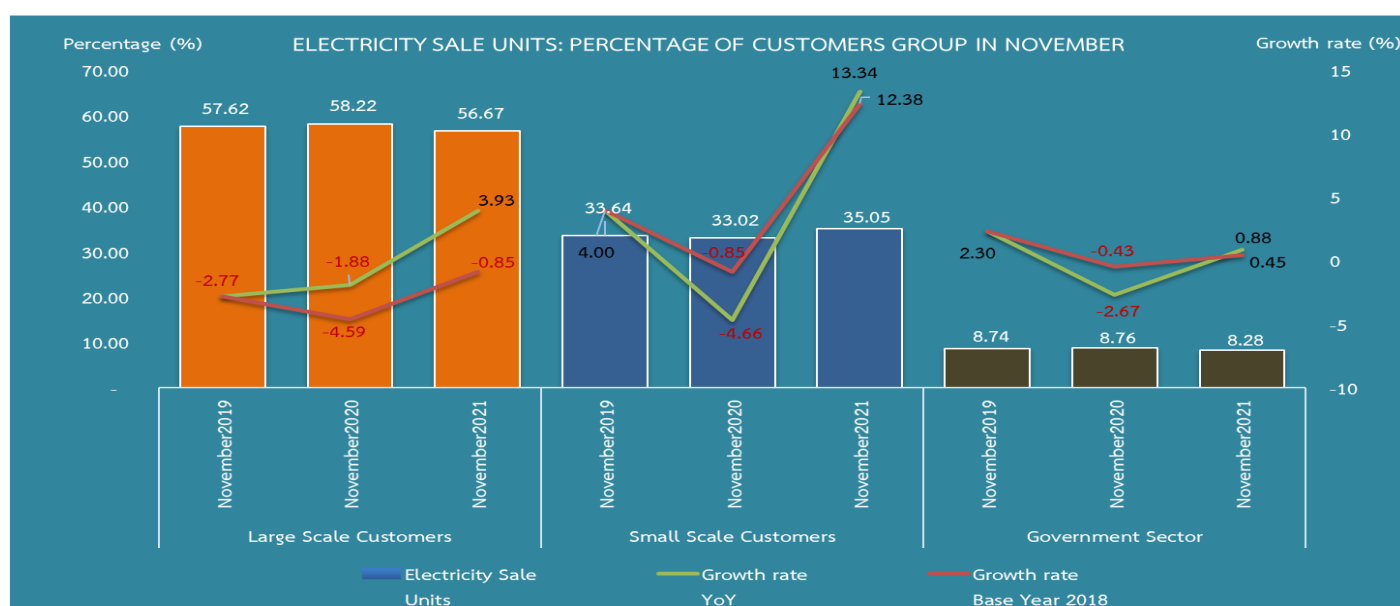


The residential sector expanded at 15.28% YoY, especially in residential (>150 kWh) grew at 19.68% YoY from online learning.

Small, Medium and Large general service accreted at 7.97%, 2.43% and 4.49% YoY, respectively, from the growth of domestic and foreign demand. Moreover, economic activities stimulated domestic spending.

Specific business service sank at 8.38% YoY which was lower than the same period of the previous year which sank 30.37% owing to the increase in foreign tourists and domestic tourism.

To compare the growth rate with base year 2018, it has found that the electricity sales went up by 3.53% YoY.

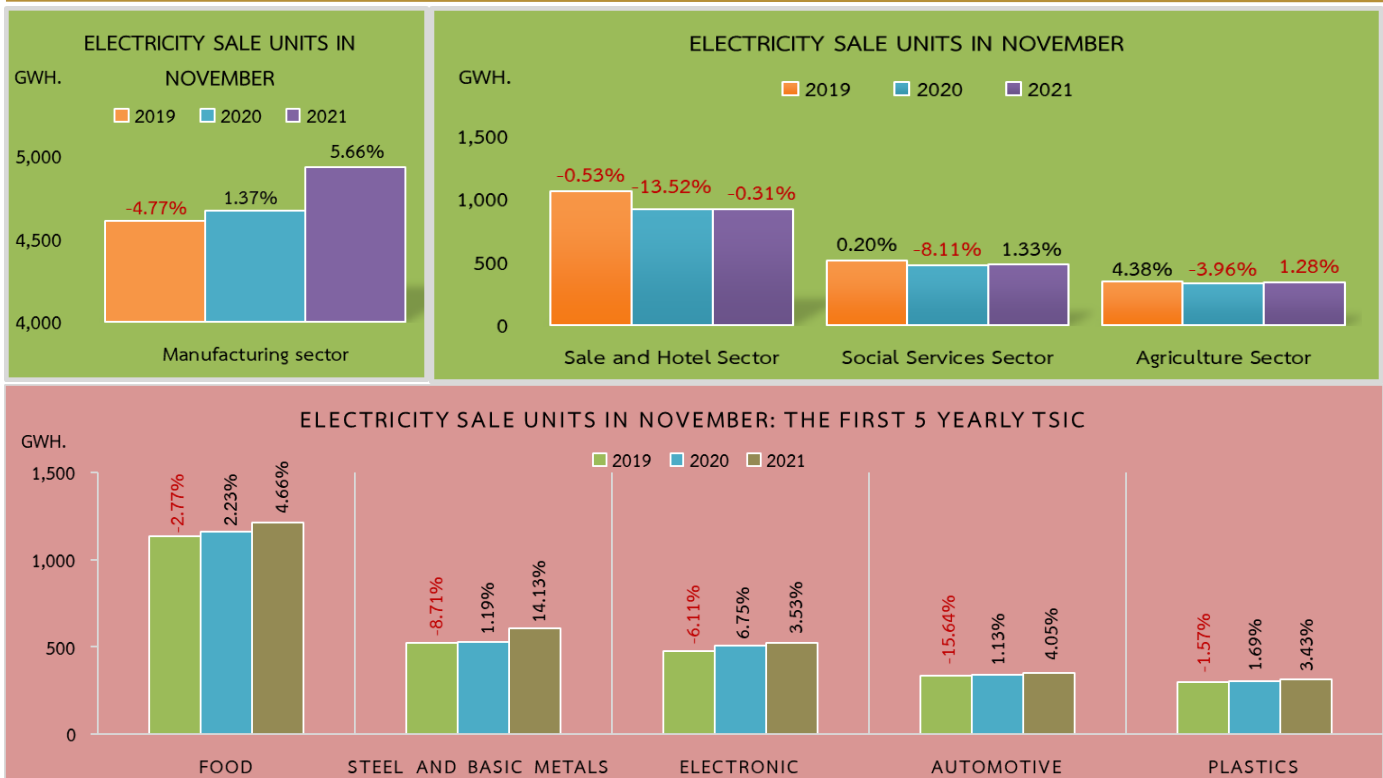


Large Scale Customers ¹	Small Scale Customers	Government sector
<p>Large Scale Customers expanded at 3.93% YoY.</p> <p>Industrial sector went up at 4.86% YoY owing to the increase in export to China and the United States such as computer and components, steel, steel products and cassava etc.</p> <p>While large scale commercial customer thinly fell at 0.10% YoY due to easing lockdown measures. Domestic travel and Thailand open for tourism (1 Nov 2021) resulted in the large number of foreign tourists to Thailand.</p>	<p>Small Scale Customers soared at 13.34% YoY due to a rise in electricity consumption of residential sectors at 15.28% YoY.</p> <p>Residential (≤ 150 kWh) fell at 0.87% YoY. On the other hand, residential (>150 kWh) raced up at 19.68% YoY thanks to Online learning and Work from Home of private organizations.</p> <p>Small scale commercial customer grew 7.94% YoY from electricity usage of grocery and minimart, which was the first proportion of retail and wholesale, rose at 10.44% YoY according to the spending in necessary goods. Moreover, electricity demand for telephone, internet and communication services grew at 11.88% from digital transformation.</p>	<p>Government sector increased at 0.88% YoY owing to government agencies, personal and household services and international organizations consisting with an easing in lockdown measures and open country for tourism.</p>


Note : ¹PEA changed the criteria for grouping customers according to the organizational context following SE-AM governmental and others to governmental since May 2021.


²Export Data by Trade Policy and Strategy Office, Ministry of Commerce.


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




Manufacturing sector enlarged at 5.66% YoY. There were 5 segments in manufacturing sector.

 **Food** slightly rose at 4.66% YoY from ice production which increased at 1.06% owing to high demand from the easing of Lockdown and open of tourism. Moreover, the rice mill went up 2.91% as a result of increased domestic consumption. Besides starch production soared at 12.35% from exports to China.

 **Steel and basic metals** greatly accrued at 14.13% YoY due to export of rolled steel and steel products to the United States and Japan as well as an increase in demand for domestic steel according to automobile production.

 **Electronics** soared at 3.53% YoY thanks to growth in demand for computers and equipment from the United States and China. Aside from a rise in export of circuit board and hard disk drives to the United States, Hong Kong, Netherlands and China.

 **Automotive** expanded at 4.05% YoY. Because there was a growth of international demand for cars in Australia, Vietnam, the Philippines and the UAE including auto parts in the United States and Indonesia. Apart from that, there was manufactured for cars to support the Motor Show Event in December 2021.

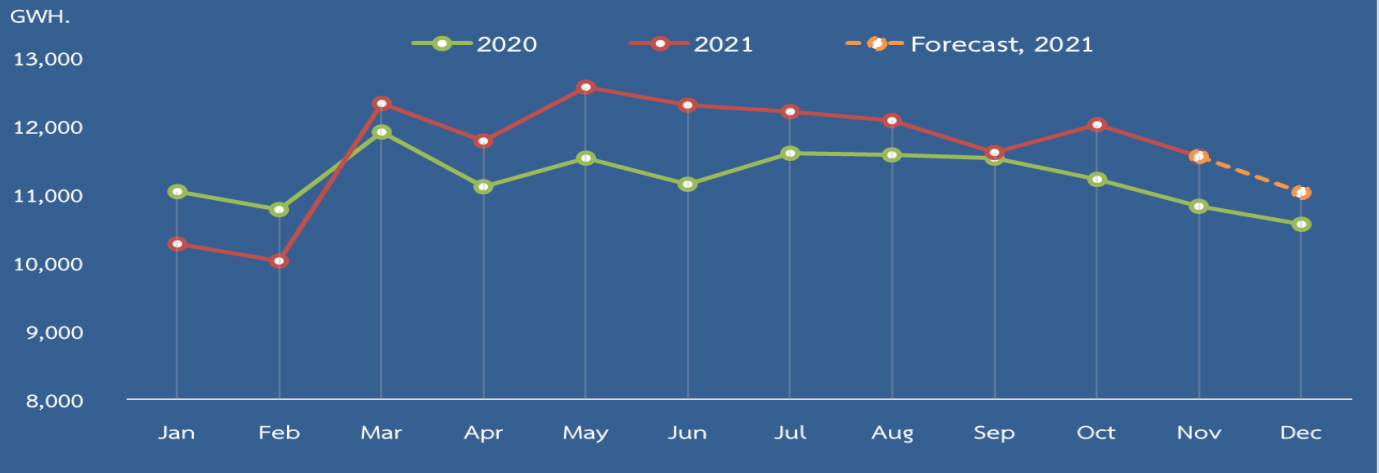
 **Plastics** grew at 3.43% YoY from a rise in export volume to Japan and the United States.

Sale & Hotel sector faintly fell at 0.31% YoY as a result of retail and wholesale electricity consumption, growing at 3.49%, owing to demand for necessary goods. However, hotel sector sank resulting in overall faintly falling.

Social Services sector increased at 1.33% YoY, because of an incline in electricity consumption in government agencies for supporting open country (November 1, 2021).

Agriculture sector softly escalated at 1.28% YoY from a rise in electricity consumption of livestock following domestic demand and frozen chicken export to Japan.

ELECTRICITY SALE UNITS A YEAR IN 2020 AND 2021 FORECAST



Electricity Sale Forecast

PEA forecasts the electricity sale situation in 2021 to improve around 2.50 - 2.78% YoY following an upward trend in exports from foreign orders and preparation of goods and services to support tourism during the New Year. Moreover, the acceleration of booster vaccination, the government's relaxation of epidemic control measures and short-term economic stimulus may result in recovering electricity sale units.

Positive factors

1. Exports are likely to expand from the partner country's orders.
2. The government's economic stimulus measures such as the increasing purchasing power of State Welfare Card scheme, "Half-Half" scheme phase 3, Ying Chai Ying Dai project and we travel together phase 4. (adding 2 million rooms and extending until April 2022)
3. The acceleration of booster vaccination to enhance immunity remaining a continuous effect.
4. The government and private sector have been launching events to support tourism during the end of year.
5. Domestic spending and tourism will increase during the last month of the year and the New Year holidays.

Negative factors

1. The usage of Quarantine Policy instead of Test & go due to the Omicron variant of COVID-19 is outbreaking in the country.
2. The weather is colder than usual.
3. The vulnerable affordability of households and businesses affected by Lockdown in a long time.
4. Increasing headline inflation such as crude oil prices
5. China has not fully opened the country resulting in Chinese tourists to Thailand less than it should be.