

## **BEHAVIOUR OF ELECTRICITY CONSUMERS AFTER THE 2022 AUGUST TARIFF REVISION**

PUCSL granted it approval to revise the electricity sales tariff with effect from 15<sup>th</sup> August 2022. Basically, it was a tariff increase of 75% in average and with the said tariff revision, consumers in various tariff categories have taken numerous measures in order to reduce their electricity consumption and that has caused to reduce the overall electricity demand in the country. Aforesaid change in electricity consumption has affected for the consumer mix which was prevailed prior to the said tariff revision and now it can be observed a different form of consumer mix specially in domestic tariff category.

Based on the data submitted by the CEB and LECO (2022 September to 2023 January), aforesaid change of consumer mix with respect to number of consumers in each tariff interval of the domestic category was analysed and findings are given below.

### **OVERALL BEHAVIOUR OF NUMBER OF CONSUMERS OF THE DOMESTIC CATEGORY**

Below table shows the variation of number of consumers in main tariff intervals of the domestic category in each month from 2022 September to 2023 January.

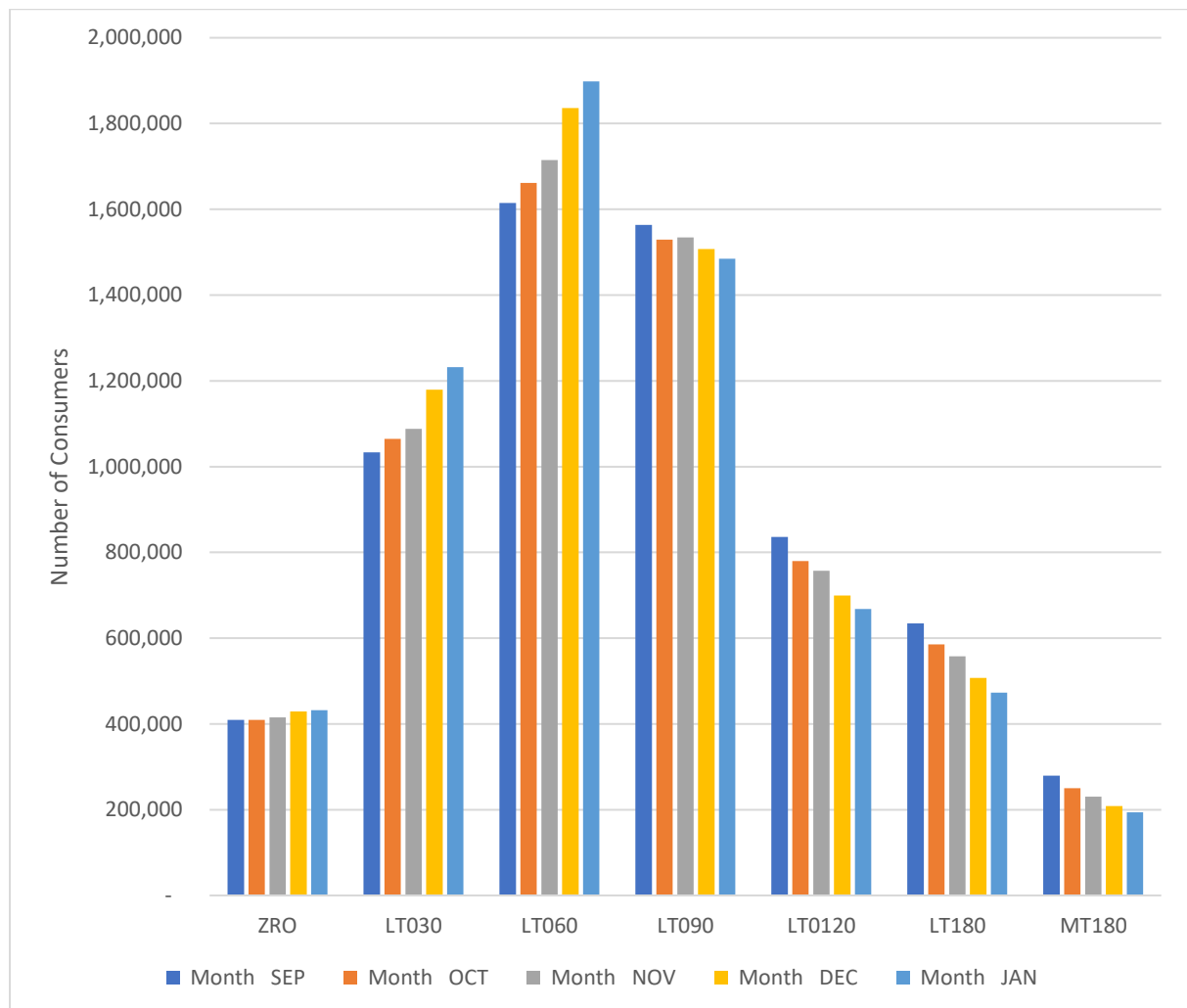
Consumer Catgry	Tariff Interval	Month				
		SEP	OCT	NOV	DEC	JAN
D	ZRO	409,043	409,345	414,899	428,791	431,730
D	LT030	1,033,042	1,064,330	1,088,317	1,179,702	1,231,836
D	LT060	1,614,834	1,661,202	1,714,574	1,835,933	1,898,072
D	LT090	1,563,463	1,529,494	1,534,622	1,507,654	1,484,502
D	LT0120	835,866	780,096	757,471	699,705	667,673
D	LT180	634,594	585,492	557,618	507,111	472,806
D	MT180	279,696	250,278	230,374	208,673	193,647
Total		6,370,538	6,280,237	6,297,875	6,367,569	6,380,266

Tariff Interval definitions of the Domestic consumer category (D) is given below;

- *ZRO –consumers with zero monthly consumption*
- *LT030 –consumers with the monthly consumption of 0 to 30 units*
- *LT060 –consumers with the monthly consumption of 30 to 60 units*
- *LT090 –consumers with the monthly consumption of 60 to 90 units*
- *LT120 –consumers with the monthly consumption of 90 to 120 units*
- *LT180 –consumers with the monthly consumption of 120 to 180 units*
- *MT180 –consumers with the monthly consumption more than 180 units*

As per the above table, it is observed that the number of consumers in high consumption tariff intervals has decreased and which indicates the consumers in high consumption tariff intervals have reduced their electricity consumption which is caused to shift them to lower tariff intervals. On the other hand, because of the said effect, number of consumers in lower tariff intervals have automatically increased.

Graphical representation of the number of consumer change in each tariff interval of the domestic category form September 2022 to January 2023 is illustrated below.



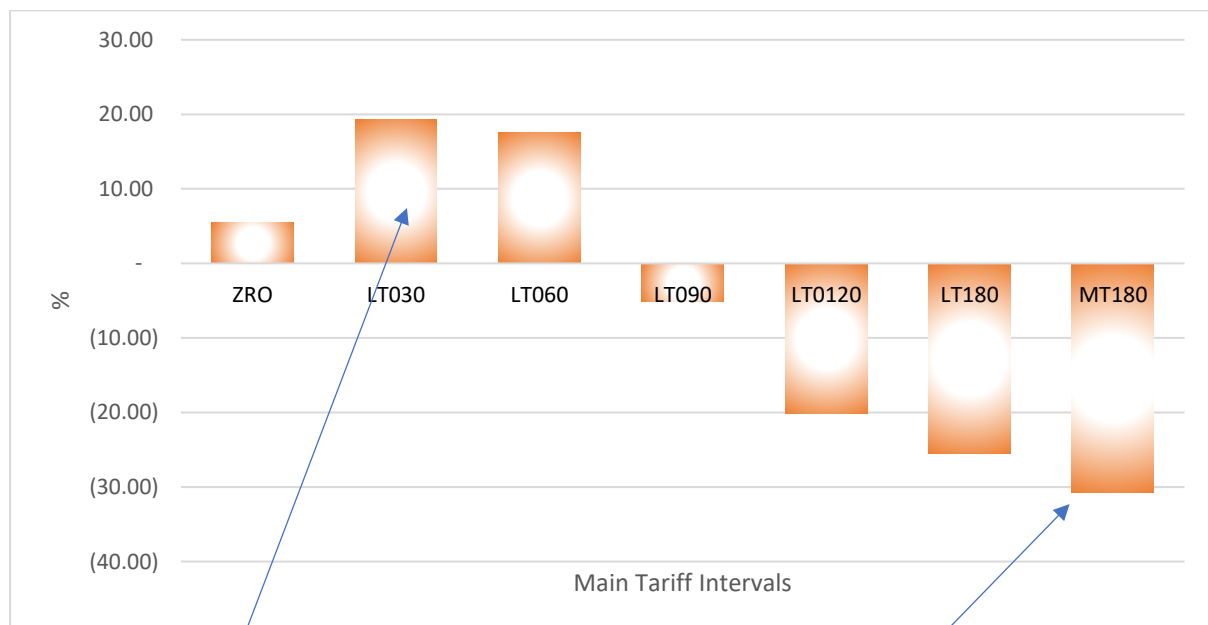
## SHIFTING OF CONSUMERS AMONG EACH TARIFF INTERVAL

Thought the said tariff revision was done in August 2022 , consumers received fully effective new electricity bills under the tariff revision on October month and onwards. Therefore, considering the September month as the base month, below table shows the variation (consumer number and the percentage) of number of consumers in main tariff intervals of the domestic category by 2023 January month.

Tariff Interval	Month		Difference	
	2022 Sep	2023 JAN	Difference (Consumer Number)	Difference (%)
ZRO	409,043	431,730	22,687	5.55
LT030	1,033,042	1,231,836	198,794	19.24
LT060	1,614,834	1,898,072	283,238	17.54
LT090	1,563,463	1,484,502	(78,961)	(5.05)
LT0120	835,866	667,673	(168,193)	(20.12)
LT180	634,594	472,806	(161,788)	(25.49)
MT180	279,696	193,647	(86,049)	(30.77)
Total	6,370,538	6,380,266	9,728	

As per above table, it can be observed that the total number of consumers is almost same (variation is 0.15%) in September and January months but the number of consumers in each tariff interval has changed significantly. On the other hand, it shows the consumers in each tariff interval have shifted to other tariff intervals as a result of the tariff revision.

Graphical representation of the above data is given below.



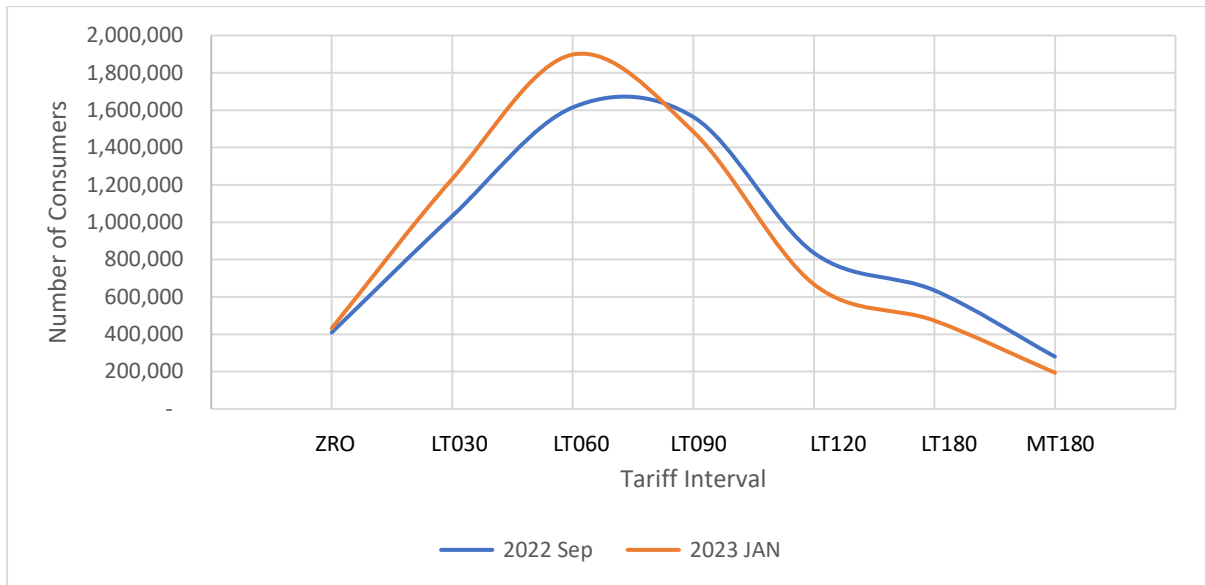
**Increase of 19.24 % of consumers - LT060 tariff interval**

**Reduction of 30.77 % of consumers - MT180 tariff interval**

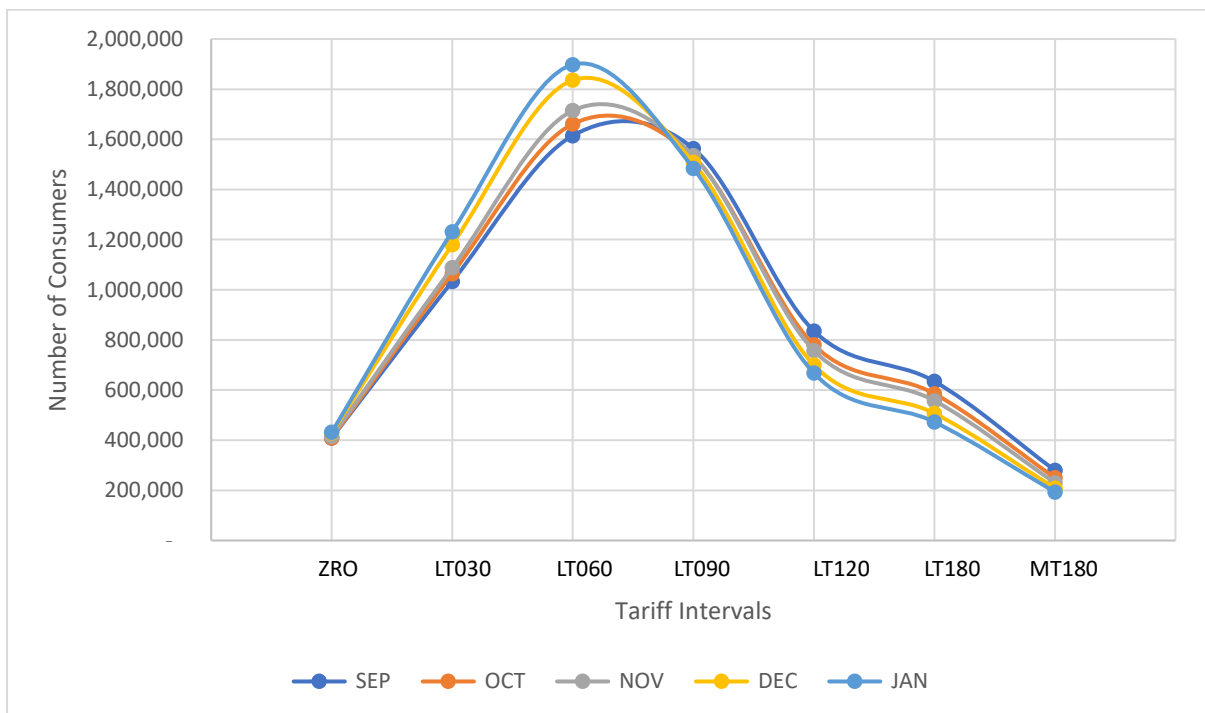
As per the above graphical representations, it is observed that number of consumers of MT180, LT180, LT120 and LT090 tariff intervals have decreased and number of consumers of LT060, LT030 and ZRO tariff intervals have increased.

## CHANG IN CONSUMER MIX

Consumer mix of September (2022) and January (2023) months.

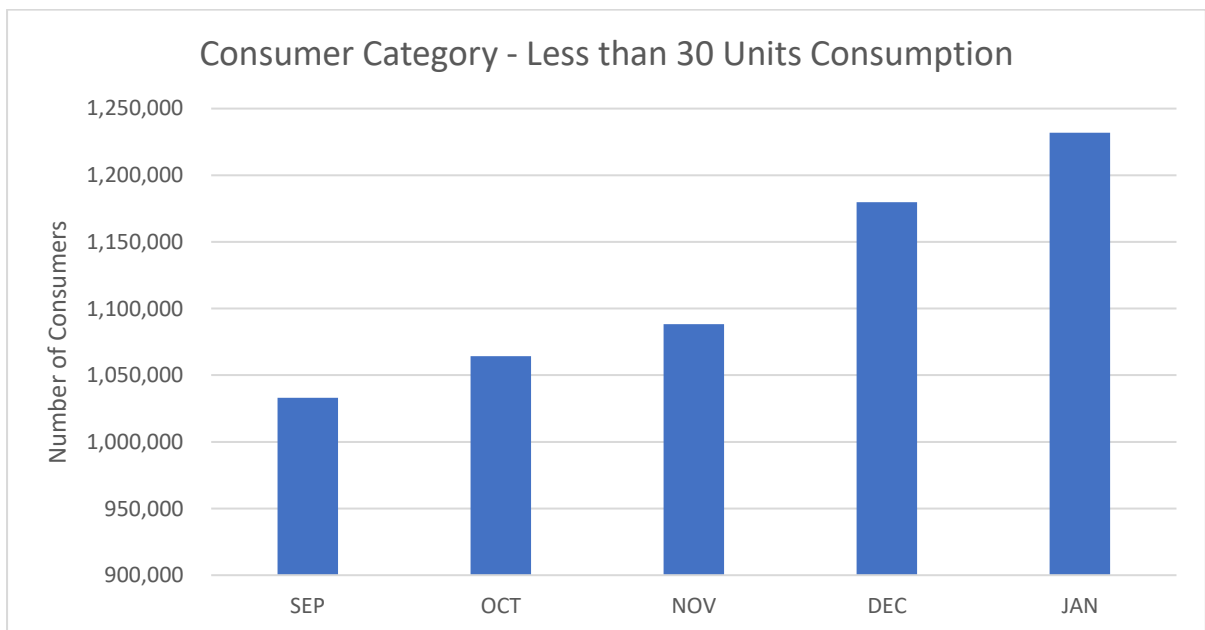
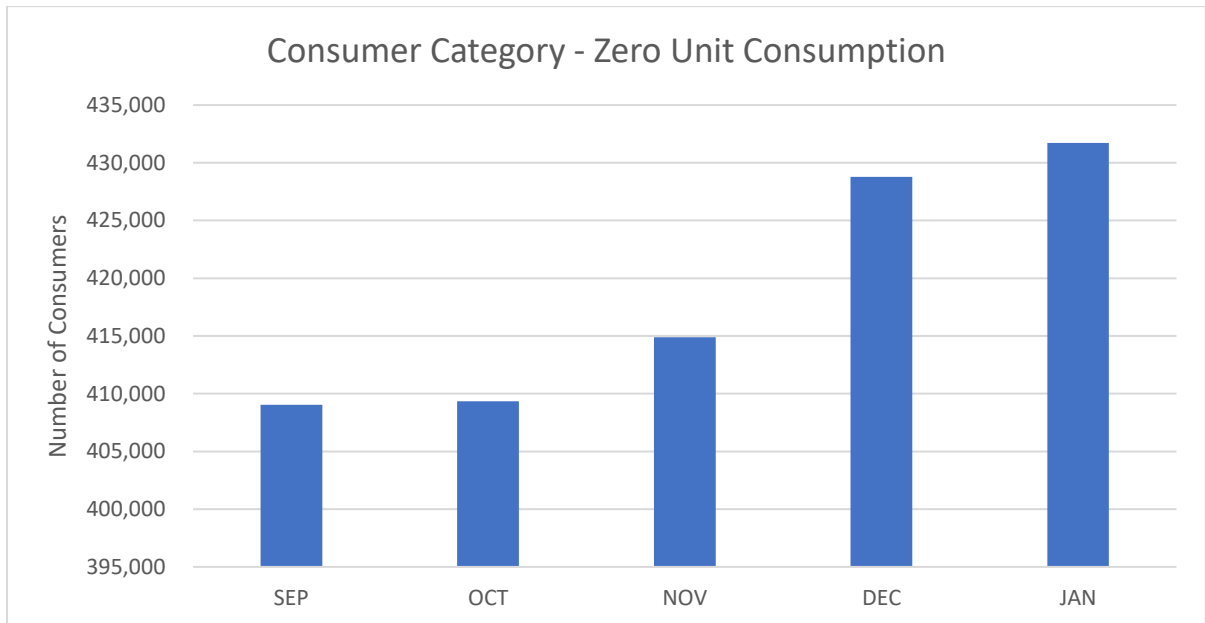


Consumer mix of September (2022) to January (2023) months.

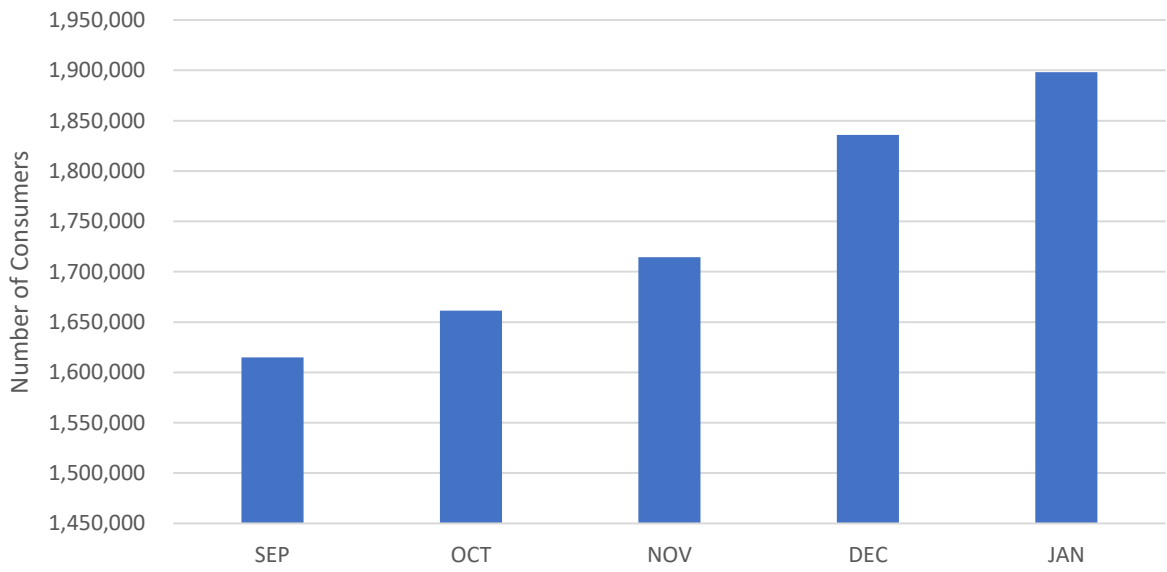


As per the below graphs, it can be seen that the consumer mix curve has gradually shifted to left with increasing peak and reducing tail end as an effect of the tariff revision.

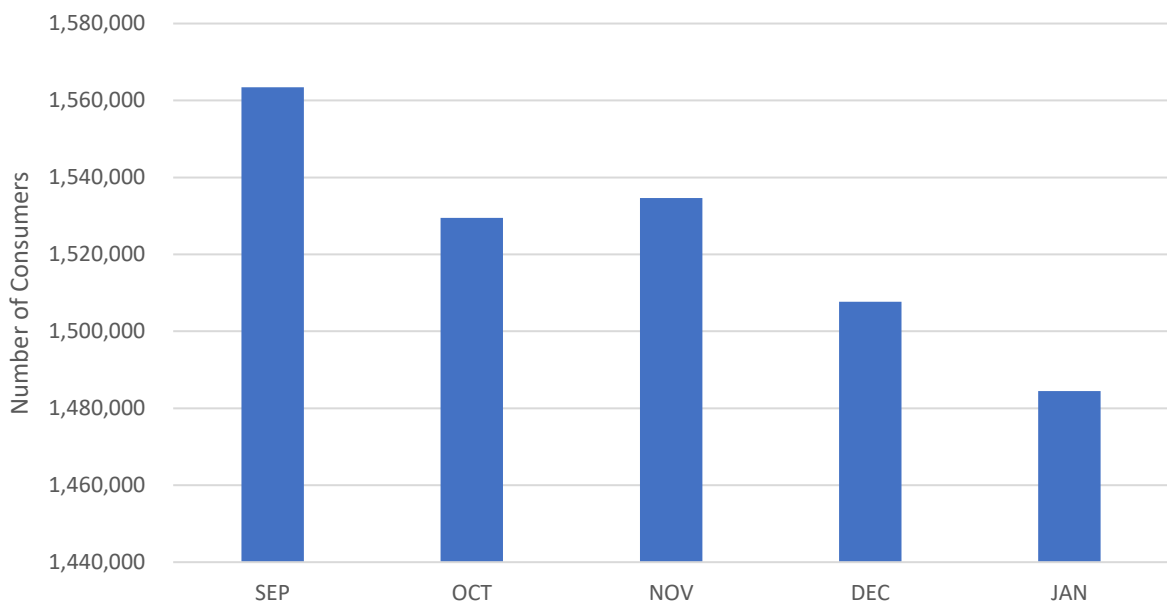
BEHAVIOUR OF NUMBER OF CONSUMERS IN EACH TARIFF INTERVAL OF THE DOMESTIC CATEGORY



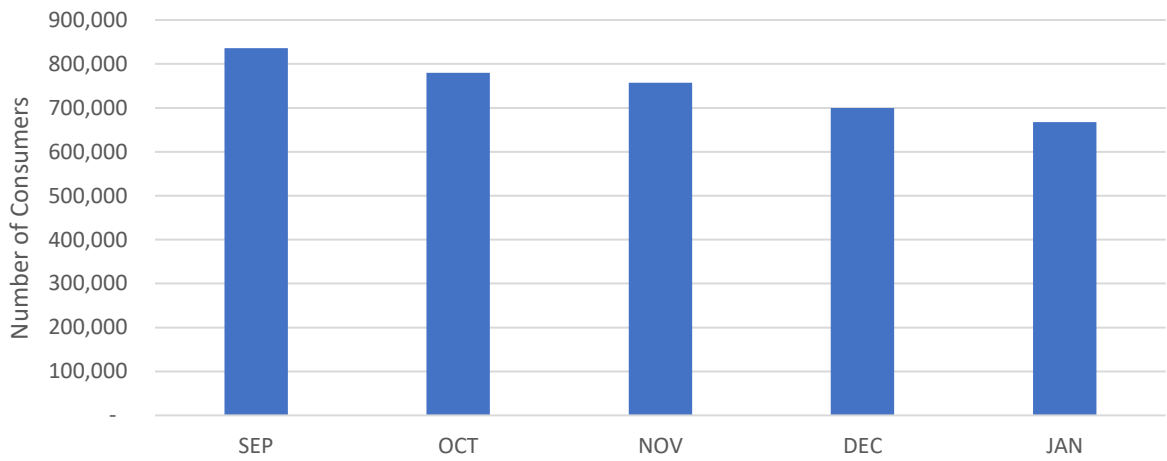
### Consumer Category - Less than 60 Units Consumption



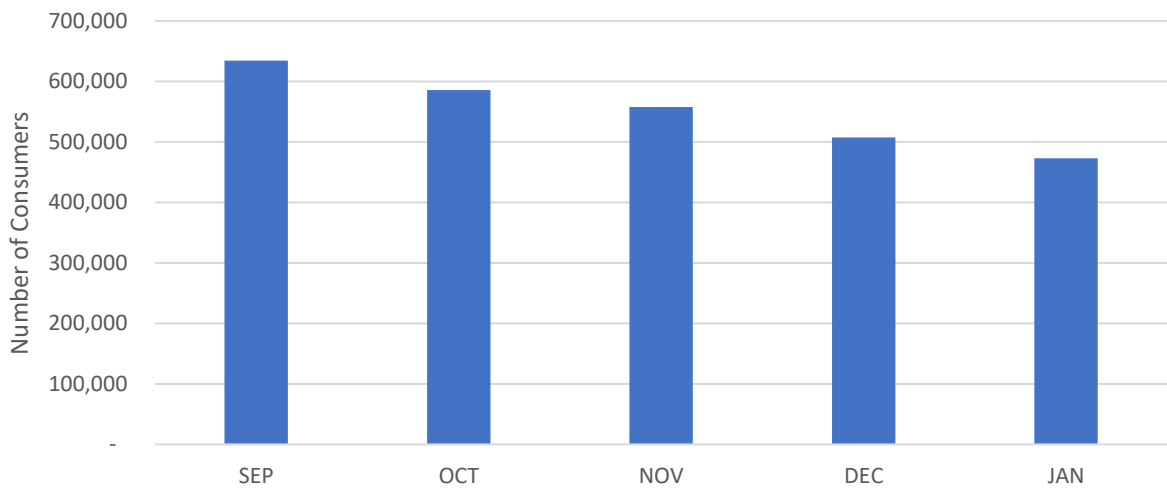
### Consumer Category - Less than 90 Units Consumption



Consumer Category - Less than 120 Units Consumption



Consumer Category - Less than 180 Units Consumption



Consumer Category - More than 180 Units Consumption

