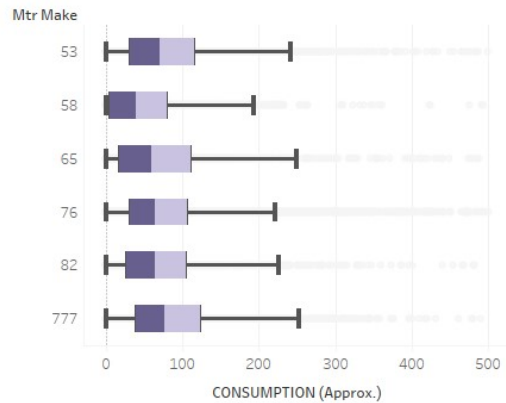


analysis of  
reading data

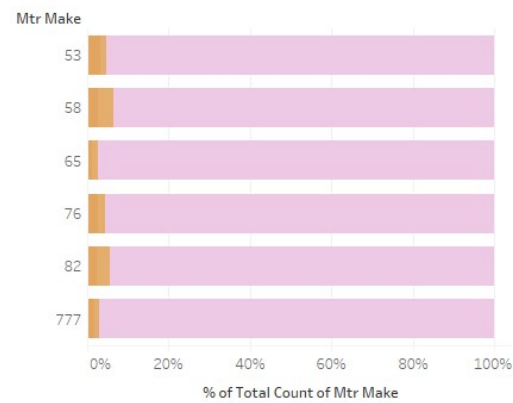
Objective: Post lockdowns, the electricity consumption has increased considerably but the electricity sale has not increased proportionately thus leading to a rise in AT&C loss. Monthly meter reading data for the month of September is analyzed to ascertain the causes leading to rising losses and predict possible remedies

## METER PERFORMANCE

Box Plot: Consumption vs Meter Make



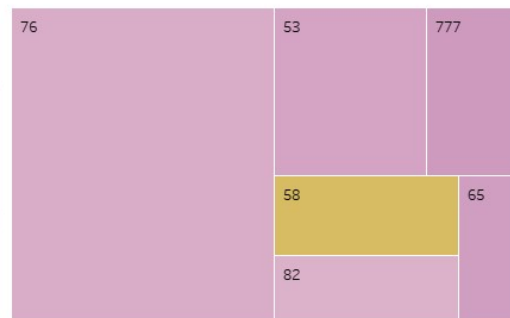
Percentage of faulty meters by brand code



Median consumption by brand code and meter status

MS	Mtr Make					
	53	58	65	76	82	777
0	70.0	40.0	58.0	66.0	66.0	76.0
1	85.0	39.5	51.5	54.0	47.5	40.0
2	49.0	29.0	88.0	100.0	10.0	92.5
4	100.0	56.0	2.0	96.5	18.0	111.5
5	42.0	12.0	24.0	33.0	45.5	32.0

Count of Meters

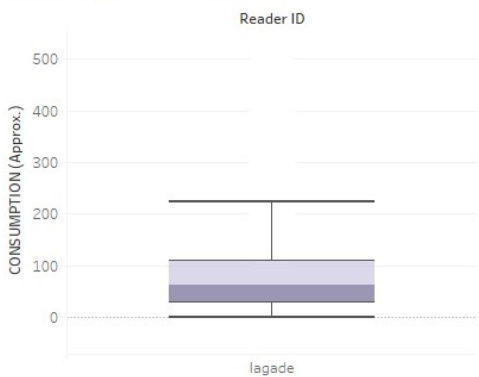


Mtr Make

- ☐ (All)
- ☐ 2
- ☐ 4
- ☐ 8
- ☐ 10
- ☐ 15
- ☐ 16
- ☐ 18
- ☐ 20
- ☐ 22
- ☐ 23
- ☐ 24
- ☐ 26
- ☐ 28
- ☐ 30
- ☐ 34
- ☐ 36
- ☐ 38
- ☐ 39
- ☐ 43
- ☐ 46
- ☐ 50
- ☐ 52
- ☒ 53
- ☐ 55
- ☐ 56
- ☒ 58
- ☐ 59
- ☐ 61
- ☒ 65
- ☐ 66
- ☐ 67
- ☐ 69
- ☐ 71
- ☐ 72
- ☐ 74
- ☐ 75

READER PERFORMANCE

Boxplot indicating readerwise consumption statistic



Meter Reader wise meter status wise consumption average



- Reader ID
- ☐ (All)
  - ☐ 02125595
  - ☐ 02163152
  - ☐ 02213460
  - ☐ 02530228
  - ☐ 02759381
  - ☐ akashrite
  - ☐ atulc
  - ☐ barge
  - ☐ chikane
  - ☐ chorge
  - ☐ czurekar
  - ☐ gholapr
  - ☐ kangade
  - ☐ krishanas
  - ☐ kunjir
  - ☒ lagade
  - ☐ MB1990
  - ☐ phanse
  - ☐ riten
  - ☐ sunilp
  - ☐ sypawar
  - ☐ tanpure
  - ☐ todkar

Group

- ☒ JS
- ☐ K5
- ☐ L5
- ☐ M5

Median CONSUMPTION (..)

27.0 142.5

Sheet 10

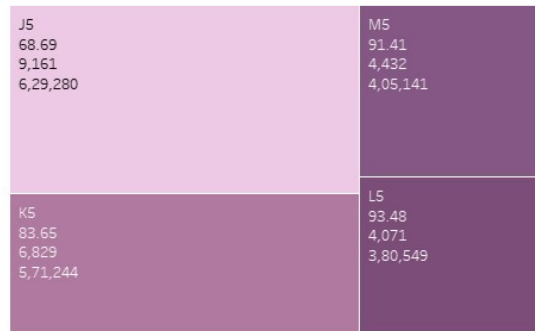


Readerwise count of consumers read & their average consumption

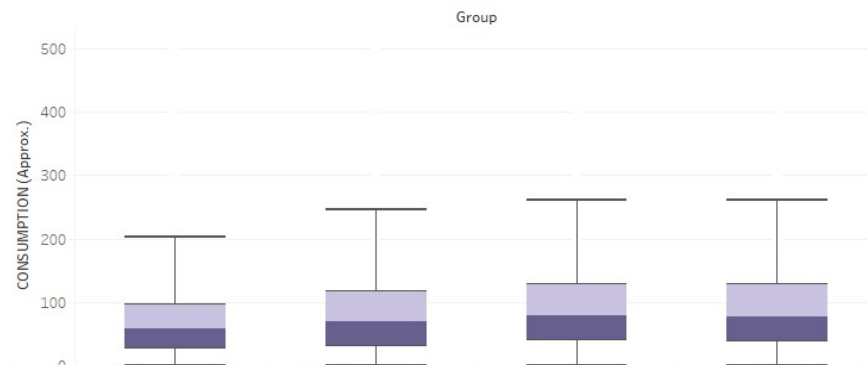
sunilp 79.8	sypawar 81.7	riten 86.0 1,531 71.0	lagade 79.1 1,443 62.0	
phanse 78.8	kangade 86.2			
kunjir 75.0	gholapr 78.3	czurekar	MB1990 88.7 1,166	
atulc 79.4	chorge 76.2	krishanas	chikane 82.6	
		tanpure		

## LOCALITY WISE DATA

GROUPWISE NUMBER OF CONSUMERS , THEIR  
AVERAGE CONSUMPTION & THEIR TOTAL  
CONSUMPTION



BOXPLOT FOR GROUPWISE CONSUMER CONSUMPTION



## Remidies:

- 1.) The average and median consumption of meter brand 58 is significantly lower than other brands. The consumption of consumers must be crosschecked with the meter and if abnormality found meter must be replaced.
- 2.) Median consumption of meter status which are not normal and are below 60 units must be verified physically.
- 3.) Meter readers who have average consumption and median consumption on lower side must be invited to share their suggestions to increase consumption.
- 4.) J5 group has a low median consumption and low average consumption causes of this needs to be verified

# RESULTS

STATISTICS OF 58 BRAND CODE METER OVER MONTHS

Month of Bill Mth (date)	Count of CONSUMER Number	Median CONSUMPTION (Approx.)
September	1,807	40
October	1,324	45
November	1,302	48

APPROXIMATELY 500 METERS OF 58 MAKE WERE REPLACED IN J5 GROUP IN THE MONTH OF OCTOBER THE MDEIAN CONSUMPTION OF THESE METERS HAS ALSO IMPROVED BY 20%



### MONTH WISE CONSUMPTION STATISTIC

Month..	Avg. CONSUMPTION (Approx.)	Median CONSUMPTION (Approx.)	CONSUMPTION (Approx.)	Count of CONSUMER Number
September	92	67	2,280,451	24,789
October	95	70	2,352,835	24,826
November	123	76	3,044,264	24,771

Sheet 1

**Sheet 1 (2)**

Sheet 1 (3)

Sheet 3

Sheet 4



**AFTER IMPLEMENTING SUGGESTED MEASURES THE MEDIAN CONSUMPTION JUST OVER TWO MONTHS INCREASED BY 13%, THE AVERAGE CONSUMPTION JUMPED BY 20%**