1 COST ALLOCATION

2

In accordance with section 2.7 of the OEB's Filing Requirements,¹ this schedule details 3 Toronto Hydro's completed cost allocation study, inclusive of class revenue requirements, 4 revenue-to-cost ratios and other pertinent information. Relying on the 2025 revenue 5 requirement detailed in Exhibit 6, Toronto Hydro allocated a portion of revenue requirement 6 to each rate classes for the purpose of calculating distribution rates for the 2025 rebasing 7 year. Toronto Hydro's cost allocation relies on the OEB's latest cost allocation model, 8 including the OEB's updated policy related to the Street Lighting class, subject to the 9 adjustments noted in section 2.4 below.² 10

11

Consistent with the methodology relied upon in EB-2014-0116 and EB-2018-0165, Toronto Hydro completed a cost allocation study for the 2025 test year, and extended the results to allocate the 2026 to 2029 revenue requirement to rate classes. Exhibit 7, Tab 1, Schedule 3 provides a live version of the 2025 cost allocation model.

16

17 **1. COST ALLOCATION MODEL**

18 Toronto Hydro reviewed and updated all necessary inputs of the cost allocation model.

19

20 **1.1 Weighting Factors for Allocation**

Toronto Hydro reviewed all "default" allocators, and where available, used data specific to Toronto Hydro to determine the allocator values. The weighting factors for Services and Billing and Collections were determined as follows:

¹ Ontario Energu Board, *Filing Requirements for Electricity Distribution Rate Applications*, Chapter 2 (December 15, 2022).

² Ontario Energy Board, Issuance of New Cost Allocation Policy for Street Lighting Rate Class (June 12, 2015).

- Services: All rate classes, with the exception of the Competitive Sector Multi-Unit 1 Residential ("CSMUR"), Unmetered Scattered Load ("USL") and Street Lighting 2 classes, received a weighting factor of one, reflecting the reality that service costs 3 greater than a basic allowance are recovered through a direct contribution from the 4 customers. The weighting factor for the CSMUR rate class is derived by dividing the 5 number of units by the number of buildings housing these units, as originally directed 6 by the OEB in EB-2010-0142. For the USL and Street Lighting classes, the cost of 7 services is directly collected from those customers, requiring that they receive a 8 weighting factor of zero. 9
- Billing and Collections: The class-specific weighting factors reflect estimates of billing
 effort and costs related to each class based on the experience and expertise of
 Toronto Hydro's billing specialists.
- 13

In accordance with past OEB decisions, Toronto Hydro proposes to maintain the use of the
 modified density factor at 23 percent.^{3,4} This reflects a considerably higher customer density
 per kilometer in Toronto compared to the OEB's default value.⁵

- 17
- 18 **1.2** Load Profiles and Demand Allocators

In order to normalize for anomalous load profiles during the COVID-19 pandemic period, Toronto Hydro utilized 2019 load data for the purpose of establishing load profiles for use in cost allocation, as the years 2020-2022 were impacted by pandemic-related trends. Specifically, the utility updated the load profiles used for the demand allocators based on weather normalized hourly-metered 2019 load data for each rate class, as further described

³ See 2015-2019 Rate Application (EB-2014-0116) and 2020-2024 Rate Application (EB-2018-0165),

 ⁴ See Cost Allocation Model in Exhibit 7A, Tab 1, Schedule 3, E1 Categorization. The "density factor", also known as the "customer allocation component", is used to determine the proportion of customer and demand-related costs.
 ⁵Toronto Hydro's density of 133 customers per kilometers of line, as determined by the model, is well above the OEB's defaut of 60 customers per kilometers of line.

below. For the Residential, CSMUR and General Service rate classes Toronto Hydro used
sample metering data sets, while entire rate class data sets were used for Unmetered Scatter
Load Class ("USL") and Street Lighting rate classes.

4

The hourly load profiles were reconciled to the 2019 purchased energy and wholesale 5 market participant data and weather normalized to 2025 heating and cooling degree days. 6 The weather normalization methodology is based on a ratio between the 2019 weather 7 normalized and 2019 non-weather normalized loads from the revenue load forecast. 8 Weather normalization in the revenue load forecast is calculated by making adjustments to 9 the monthly energy purchases either in excess or below what would be purchased under 10 average weather conditions. Average weather conditions are based on a ten-year historical 11 average of heating and cooling degree-days, and dew-point temperature. This methodology 12 is in accordance with Toronto Hydro's previous filings (EB-2018-0165 and EB-2014-0116). 13 Please refer to Exhibit 3 for more information on Toronto Hydro's weather normalization 14 methodology for its revenue load forecast. 15

16

The load profiles were scaled to the 2025 baseline load forecast based on the ratio of 2025 kWh to 2019 kWh by class. Resulting load profiles were modified to include electric vehicles ("EVs") and distributed energy resources ("DERs") forecasted load impacts. A detailed explanation of EV and DER inclusion can be found in the integration model report prepared by ClearSpring Energy Advisors in Exhibit 3, Tab 1, Schedule 1, Appendix J. An example of the data and calculations is filed as Exhibit 7, Tab 1, Schedule 2.

23

24 1.3 Street Lighting

Initially approved by the OEB in EB-2014-0116 and followed by the latest OEB approval in
 EB-2018-0165, Toronto Hydro has included approved Street Lighting assets and operating

1	expenses in its 2025 revenue requirement. For the purposes of cost allocation, all assets and
2	expenses are directly allocated 95 percent to the Street Lighting class, and 5 percent to the
3	USL class. This allocation reflects prior OEB Decisions, and the fact that these assets only
4	serve these two classes. In addition, 100 percent of the Street Lighting related revenue
5	requirement is offset through a direct allocation to Revenue Offsets for the Street Lighting
6	class. The effect is a revenue-to-cost ratio of 1.0 for these assets and costs.
7	
8	1.4 Adjustments to Cost Allocation Model
9	The following adjustments were made to the OEB's cost allocation model to meet Toronto
10	Hydro's circumstances and requirements.
11	• In Worksheet I6.1 Revenue, cell L39 was locked. Toronto Hydro modified the formula
12	to calculate the revenue from three tier rates for USL rate class.
13	• In Worksheet I6.2 Customer Data, cells M28 and M29 were adjusted to reflect the
14	direct assignment of meter capital and meter reading costs for the CSMUR rate class.
15	• In Worksheet O1 Revenue to Cost, cell J19 was modified to include the direct
16	assignment of revenue offsets related to the Street Lighting class, as noted above.
17	• In Worksheet E1 Categorization, cell E24 and E25 were modified to 0.23.
18	
19	2. IMPLEMENTATION OF COST ALLOCATION RESULTS
20	OEB's Report: Review of Electricity Distribution Cost Allocation Policy (EB-2010-0219) dated
21	March 31, 2011 established updated "target ranges" for the revenue to cost ratios for each
22	customer class. The OEB's review of the Street Lighting cost allocation methodology resulted
23	in an updated target range for that rate class. ⁶
24	

⁶ Supra note 2.

- 1 Toronto Hydro proposes to maintain 2025 cost allocation for the 2026 to 2029 years, and is
- 2 not proposing any manual adjustments to Revenue to Cost ratios over this period.
- 3
- 4 Table 1 below shows the revenue to cost ratios calculated prior to and after the proposed
- ⁵ 2025 rate design in comparison with the OEB's guideline ranges.⁷ The proposed revenue to
- 6 cost ratios for all Toronto Hydro rate classes are within the OEB's ranges.
- 7

8 Table 1: Revenue/Cost Ratios (%)

Rate Class	2020 OEB	20	OEB's Guideline		
	Approved	Model	Proposed	Ranges	
Residential	100.0%	102.1%	100.0%	85-115	
Competitive Sector Multi-Unit Residential	100.0%	111.7%	100.0%	n/a	
General Service <50kW	93.7%	97.4%	99.2%	80-120	
General Service 50-999kW	105.6%	96.4%	98.9%	80-120	
General Service 1000-4999kW	94.8%	94.4%	98.3%	80-120	
Large Use	93.6%	97.2%	99.2%	85-115	
Street Lighting	111.3%	119.4%	119.4%	80-120	
Unmetered Scattered Load	120.0%	121.7%	120.0%	80-120	

9

10 In accordance with past OEB decisions, rates in the Residential and CSMUR class are set such

11 that the revenue to cost ratios are equal at unity (i.e. 1.0 or 100 percent).

12

With respect to the Street Lighting class, the proposed revenue to cost ratio reflects the application of the updated OEB cost allocation model, and includes the allocation of revenue offsets related to the Street Lighting assets in rate base to fully offset the costs that have been directly allocated to this class.

⁷ All ratios exclude revenues and costs related to transformer ownership allowance.

Toronto Hydro engages its customers with significant unmetered load (e.g. City, 1 2 telecommunications companies) as part of ongoing customer engagement. Through those interactions and direct participation by these customers in OEB rate application and policy 3 proceedings, they have developed familiarity with the regulatory context, including the basis 4 on which costs are allocated to them through rates. Toronto Hydro's proposed cost 5 allocation for unmetered customers (including street lighting) follows the OEB's current 6 methodology, which was developed in consultation with unmetered customers. With the 7 filing of this application, Toronto Hydro is sending a communication to major customers 8 within these classes regarding changes to rates and charges, and inviting them to participate 9 10 in the proceeding.

11

12 **3. COST ALLOCATION REVIEW**

In the Cost Allocation and Rate Design section of its Decision in EB-2018-0165, the OEB concluded that it would be appropriate to review the characteristics of the CSMUR class and its revenue-to-cost ratios in Toronto Hydro's next rebasing application.⁸ While the Decision did not specify the manner in which that review should take place, in the interest of facilitating it, in this section Toronto Hydro is setting out the background and evidence to support reconsideration of the current approach, with specific details on two opportunities to improve customer cost allocation.

20

21 **3.1 Background on CSMUR Rate Class**

The CSMUR class was established in Toronto Hydro's EB-2010-0142 application. In that proceeding the OEB defined suite metering, as *"the installation of a separate meter for each*

⁸ EB-2018-0165, Decision and Order (December 19, 2020) at pages 156-157.

unit of a multi-unit residential building where there is no bulk meter that is used for the
 purposes of settlement."⁹ In a Partial Decision issued July 7, 2011, the OEB determined that:

3

...due to the existence of a competitive market for the provision of unit sub-4 metering it is appropriate to ensure that procurement choices, as between 5 licensed distributors (suite metering) and licensed unit sub-meter providers (unit 6 submetering) are made on a comparable economic basis both within the 7 competitive unit sub-metering marketplace and between this competitive 8 market place and the monopoly service...The Board has determined that the 9 creation and maintenance of a separate rate class for multi-residential 10 customers that at the present time are served utilizing Quadlogic technology is 11 the most effective and transparent manner in which to address the 12 aforementioned issues.¹⁰ 13

14

Subsequent to the OEB's Partial Decision, Toronto Hydro submitted supplemental evidence 15 on September 30, 2011, in which a new rate class for suite metered customers was 16 proposed, accompanied by cost allocation evidence and proposals.¹¹ Among the 17 assumptions and proposals made, Toronto Hydro included proposals for the allocation of 18 secondary system costs for customers in the new rate class, which would recognize that a 19 minority of such customers utilized Toronto Hydro's secondary system assets.¹² Following 20 interrogatories, an oral hearing, argument, and other procedural matters, the OEB issued a 21 Decision and Order on the Suite Metering Issues.¹³ 22

⁹ EB-2010-0142, Partial Decision and Order (July 7, 2011) at page 33

¹⁰ *Ibid.* at page 35

¹¹ EB-2010-0142, Exhibit L1, Tab 5, Schedule 1 (September 30, 2011)

¹² *Ibid.* at page 5

¹³ EB-2010-0142, Decision and Order (February 22, 2012)

Among other findings specific to suite metering cost allocation, the OEB stated the following: 1 2 The Board finds that no adjustment for secondary costs should be made on the 3 basis that there is insufficient evidence on the record in this proceeding to 4 determine an appropriate allocation of these costs between the two residential 5 classes...The Board recognizes that many customers in the [CSMUR]¹⁴ class do 6 not receive their service through the secondary voltage system. However, the 7 same is true of the remaining Residential class, although proportionately to a 8 lesser degree, based on the cost allocation studies done by BDR. The same may 9 be true of other classes as well. The Board does not have reliable information on 10 this record on the number of customers or their load statistics in the classes 11 other than [CSMUR]...The Board expects that THESL will incorporate the 12 distinction between the secondary and primary systems in future cost allocation 13 studies, and that it will include the appropriate proportions within each class 14 where some customers are served from the secondary system and the rest are 15 served from the primary system.¹⁵ 16

17

As noted by the OEB in the Decision and Order on Suite Metering Issues, Toronto Hydro did not have sufficient information at the time to determine an alternative allocation of line transformer and secondary system assets for the CSMUR, Residential and GS <50kW rate classes. Having significantly advanced its collection of customer and asset data over the last twelve years, and having improved its ability to analyze such data, Toronto Hydro is able to leverage asset and customer specific information to study CSMUR cost allocation issues that could not be examined on facts in EB-2010-0142.

¹⁴ Original quote reads 'Quadlogic' denoting the meter type used to serve customers in the CSMUR class at that time ¹⁵ *Supra* note 13 at page 18

3.2 Potential Refinements to CSMUR Cost Allocaiton

In reviewing the characteristics of the CSMUR rate class as noted by the OEB in the last
decision, Toronto Hydro identified two potential opportunites to refine the cost allocation
approach as further described below. These potential refinements would impact the OEB's
Cost Allocation Model in tabs 16.2 and 18.

6

7 3.2.1 Customer Count

Allocating primary system, line transformer, and secondary system costs in tab I6.2 of the OEB's Cost Allocation Model requires the input of a customer base for each rate class; assigning some portion of customers to line transformer and secondary system assets. Historically, Toronto Hydro's Residential, CSMUR and GS<50 kW customer counts for primary system, secondary and line transformer costs have been equal to the number of customers in each rate class, identified by the number of meters in each rate class.

14

Toronto Hydro identified a potential inconsistency in the establishment of customer count 15 for this purpose. Given there is no bulk meter associated with CSMUR accounts, the 16 customer count in this rate class represents 'units' inside of a multi-unit building with 17 typically one primary connection, while in large part the customer counts of other rate 18 classes with comparable premise loads represent entire buildings, regardless of how many 19 units may be inside of them. The result is a larger allocation of costs through tab I6.2 to the 20 CSMUR class, despite many bulk and CSMUR buildings being comparable to each other 21 physical loads. 22

23

In the status quo approach, applying different methods for different rate classes to allocate
 the primary, line transformer, and secondary assignments in tab I6.2 yields an inconsistency
 that warrants further consideration by the OEB and interested parties. From Toronto

Hydro's perspective, there are two alternatives to ensure consistent measurement: either 1 (i) all customer counts reflect 'units' per within a building, or (ii) all customer counts reflect 2 the number of buildings served. At this time, Toronto Hydro does not have sufficiently 3 accurate or verifiable data with respect to the number of units in buildings served by bulk 4 meters. To proceed with option (i) the utility would have to complete a detailed study by 5 rate class or rely on estimates derived from self-declarations made under the Ontario Energy 6 Rebate ("OER") which indicate that there are approximately 340,000 units behind bulk-7 meters in Toronto. 8

9

Conversely, for option (ii) Toronto Hydro was able to generate from its systems and records 10 a representation of building count by rate class which could be used for cost allocation 11 purposes. In order to prepare a building count by rate class, Toronto Hydro retrieved 12 customer data from its Customer Information System ("CIS"), which included the addresses 13 of customers across Residential, CSMUR and GS<50 kW rate classes, as well as asset data 14 from its Geo-Electric Asset Records ("GEAR") system which catalogues Toronto Hydro's 15 system. Utilizing a combination of customer addresses and asset data, Toronto Hydro 16 prepared an alternative customer count for each of the Residential, CSMUR and GS<50 kW 17 rate classes that is representative of the number of buildings served, as opposed to the 18 number of individual meters. The status quo and alternative customer count results are 19 shown in Table 2 below. 20

21

22

Table 2: Total Customer Count by Rate Class: Status Quo and Alternative

Rate Class	Status Quo	Alternative
Residential	617,563	470,705
Competitive Sector Multi-Unit Residential	98,427	383
General Service <50kW	73,396	42,864

The resulting alternative customer count has a significant decrease to the count associated
with the CSMUR rate class which, all else equal, would be expected to reduce costs allocated
to the CSMUR rate class.

4

5 3.2.2 Line Transformer and Secondary System

Based on improved data collection and analysis, Toronto Hydro is now in a position to
provide more specific and accurate information with respect to use of line transformer and
secondary system assets in the CSMUR, Residential and GS <50kW rate classes. To complete
this analysis, Toronto Hydro relied on the same customer information noted above in (i.e.
CIS and GEAR data, including distinct cable and transformer identification numbers).
Included within GEAR, are ownership attributes, denoting whether Toronto Hydro or the
customer own the line transformer or secondary assets in question.

13

For the CSMUR rate class, Toronto Hydro observed that 61 percent of CSMUR buildings are served by Toronto Hydro line transformers, and 30 percent are served by Toronto Hydro secondary assets. The remaining CSMUR customers are either primary-connected, or own their own line transformer and/or secondary system assets. This analysis was completed for the vast majority of the CSMUR building population, providing strong coverage of the buildings served in this rate class.

20

Toronto Hydro relied on the same approach described above to establish line transformer and secondary system building counts for the Residential and GS <50kW rate classes, with one exception. For the Residential class, Toronto Hydro's analysis investigated addresses (i.e. buildings) which included more than six customers, and within the GS <50 kW class the

investigation analyzed addresses (i.e. buildings) with more than one customer.¹⁶ In Toronto 1 Hydro's experience, it is unlikely that a significant number of Residential buildings with less 2 than 7 customers, or GS <50 kW buildings with less than 2 customers, would have procured 3 and subsequently managed their own line transformer and secondary system assets. The 4 results of this analysis are presented in below in Table 3, which shows the alternative 5 customer count of served by Toronto Hydro line transformer and secondary system assets 6 in each rate class, relative to the total population of alternative customer counts in the class 7 that are deemed to utilize these assets in the current model. 8

9

10 Table 3: Alternative Line Transformer and Secondary

	Resid	ential	CSN	/IUR	GS<50 kW		
	Alternative Customer Count	% of Total Alternative Customer Count	Alternative Customer Count	% of Total Alternative Customer Count	Alternative Customer Count	% of Total Alternative Customer Count	
Line Transformer	470,611	99.98%	235	61.37%	42,438	99.01%	
Secondary	470,093	99.87%	116	30.41%	35,553	82.95%	

11

12 3.3 Potential Impact Analysis

13 The implementation of the cost allocation refinements outlined above in section 4.2.1 and

14 4.2.2, all else being equal, would result in a shifting of costs away from the CSMUR customer

class. For consideration, the following table presents 2025 Revenue to Cost ("R/C") ratios

16 for each rate class as follows:

- A. Status Quo (i.e. without any refinement);
- B. with Alternative Customer Count as noted in section 4.2.1;

¹⁶ Toronto Hydro relied on the tariff sheets class definition, "residential apartment buildings or the house service of a residential apartment building with more than 6 units", presented in EB-2022-0065, Decision and Order (December 8, 2022) at pages 32-37.

- C. with Alternative Line Transformer and Secondary as noted in section 4.2.2; and
- 2 D. the combined effect of B and C.
- 3

1

4 Table 4: R/C Ratios With and Without Cost Allocation Refinements

Options	А	В	С	D
Rate Class	Status Quo	Alternative Customer Count	Alternative Line Transformer and Secondary	Combined
Residential	102%	97%	100%	96%
GS <50 kW	97%	100%	102%	104%
GS 50-999 kW	96%	99%	94%	96%
GS 1,000-4,999 kW	94%	97%	94%	96%
Large Use >5MW	97%	99%	97%	99%
Street Light	119%	110%	115%	110%
Unmetered Scattered Load	122%	93%	117%	92%
CSMUR	112%	150%	133%	174%

5

The cost allocation issues presented above relate to the movement and re-assignment of 6 7 costs between customer groups, as opposed to a net increase or decrease of costs to 8 customers overall. As such, Toronto Hydro does not propose a particular outcome with respect to the resolution of the issues presented, and sees merit to a collaborative approach 9 which takes into account the views, preferences and expertise of all the parties whose 10 interests are affected by cost allocation matters. This approach can place in the current 11 proceeding through an OEB ordered settlement process or submissions to the OEB if a 12 settlement cannot be reached between the parties. 13

Toronto Hydro-Electric System Limited EB-2023-0195 Exhibit 7 Tab 1 Schedule 2 ORIGINAL Page 1 of 1

The Data is for Illustrative Use Only

HouR Cust 1 Cust 2 Cust 3 Cust 4 Cust 5 Cust 6 Cust 7 Cust 8 Cust 9 10	Total Avg	Sample Rate Class Hourly Profile for Jan	Total of All rate Classes (Includes Sample Rate Class)	Sample Rate Class % of Sum of all Rate Classes	IESO Purchased and Whoesale Market Participants Metered Load	Sample Rate Class portion of the Total System Load.	Weather Correction Factor for Sample Rate Class is 0.964395		Demand scaled to the 2025 load forecast based on the ratio of 2025 sample rate class kWh to sample rate Class Test year kWh.	EV and DER Consumption Combined	Net Load with EV and DER Consumption
	Sample size = 10	Total Number of Customers in Sample Rate Class in test year = 20									
	(b) = (a) / 10	(c) = (b) * 20		(e) = (d) / (c)		(g) = (e) * (f)	(h) = (g) * 0.964395		(i) = (h) * 1.003497		(k) = (i) + (j)
	(a) (b)	(c)	(d)	(e)	(f)	(g)	(h)		(i)	(i)	(k)
01-Jan-19 1 0.37 1.01 0.85 0.67 0.52 1.5 0.34 0.19 0.38 1.4	7.23 0.723	14.46	318.12	5%	349.93	15.91	15.34		15.39	2.16	17.56
01-Jan-19 2 0.25 0.92 0.58 0.62 0.51 0.99 0.56 0.19 0.54 1.45	6.61 0.661	13.22	290.84	5%	349.01	15.86	15.30		15.35	1.68	17.03
01-Jan-19 3 0.32 0.86 0.51 0.62 0.59 0.72 0.44 0.2 0.55 1.22	6.03 0.603	12.06	265.32	5%	318.38	14.47	13.96		14.01	1.28	15.29
01-Jan-19 4 0.29 0.67 0.59 0.63 0.53 0.68 0.37 0.17 0.46 1.42	5.81 0.581	11.62	174.30	7%	209.16	13.94	13.45		13.49	0.96	14.46
01-Jan-19 5 0.26 0.81 0.6 0.65 0.5 0.7 0.34 0.2 0.27 1.28	5.61 0.561	11.22	145.86	8%	175.03	13.46	12.98		13.03	0.64	13.67
01-Jan-19 6 0.33 0.87 0.61 0.72 0.6 0.8 0.6 0.22 0.39 1.44	6.58 0.658	13.16	128.97	10%	154.76	15.79	15.23		15.28	0.41	15.69
01-Jan-19 7 0.24 0.65 0.6 0.71 0.52 0.99 0.47 0.17 0.3 1.3 01-Jan-19 8 0.18 0.65 0.83 0.66 0.44 0.98 0.44 0.21 0.32 1.37	5.95 0.595	11.90	110.67 109.44	11%	132.80 131.33	14.28 14.59	13.77		13.82 14.12	0.23	14.05 14.26
01-Jan-19 8 0.18 0.65 0.83 0.66 0.44 0.98 0.44 0.21 0.32 1.37 01-Jan-19 9 2.16 0.81 1.03 0.61 0.54 0.85 0.37 0.21 0.35 1.41	6.08 0.608 8.34 0.834	12.16 16.68	109.44	11% 12%	226.85	26.69	14.07 25.74		25.83	0.14	25.92
01-Jan-19 9 2.16 0.81 1.05 0.61 0.54 0.65 0.57 0.21 0.55 1.41 01-Jan-19 10 0.63 0.59 0.79 0.63 0.54 0.67 0.47 0.36 0.32 1.44	6.44 0.644	12.88	103.04	13%	123.65	15.46	14.91		14.96	0.05	15.02
01-Jan-19 11 1.45 1.12 0.82 0.95 0.61 0.88 1.21 0.19 0.27 1.44	8.94 0.894	17.88	107.28	17%	128.74	21.46	20.69		20.76	0.06	20.82
01-Jan-19 12 0.66 1.02 0.82 0.88 0.58 0.8 0.58 0.28 0.32 1.33	7.27 0.727	14.54	116.32	13%	209.38	26.17	25.24		25.33	0.07	25.40
01-Jan-19 13 2.71 0.91 0.93 1.18 0.72 0.79 0.71 0.23 0.75 1.42	10.35 1.035	20.70	175.95	12%	193.55	22.77	21.96		22.04	0.08	22.11
01-Jan-19 14 0.83 0.95 0.8 0.96 0.62 0.87 0.59 0.19 0.58 1.67	8.06 0.806	16.12	145.08	11%	365.04	40.56	39.12	Sample Rate Class Jan CP	39.25	0.09	39.34
01-Jan-19 15 0.64 0.98 0.67 1.14 0.57 0.53 0.5 0.2 0.58 1.45	7.26 0.726	14.52	145.20	10%	188.76	18.88	18.20		18.27	0.13	18.40
01-Jan-19 16 0.57 0.78 0.75 0.77 1.43 0.51 0.25 0.14 0.5 1.6	7.3 0.73	14.60	160.60	9%	192.72	17.52	16.90		16.96	0.19	17.15
01-Jan-19 17 0.46 1.03 1.01 0.79 1.18 0.51 0.37 0.19 0.35 1.63	7.52 0.752	15.04	90.24	17%	261.97	43.66	42.11	Sample Rate Class Jan NCP	42.25	0.27	42.53
01-Jan-19 18 1.14 2.79 1.01 0.84 0.7 1.03 0.33 0.26 0.44 1.49	10.03 1.003	20.06	220.66	9%	264.79	24.07	23.21		23.30	0.35	23.64
01-Jan-19 19 2.29 2.4 0.88 0.89 0.78 1.13 1.33 0.52 0.96 1.51	12.69 1.269	25.38	279.18	9%	335.02	30.46	29.37		29.47	0.40	29.87
01-Jan-19 20 0.8 2.54 0.88 0.94 0.88 0.96 1.85 0.58 0.57 1.38	11.38 1.138	22.76	273.12	8%	327.74	27.31	26.34		26.43	0.44	26.87
01-Jan-19 21 1.16 2.1 1.19 1.2 0.75 1.26 0.91 0.66 0.7 1.77	11.7 1.17	23.40	304.20	8%	334.62	28.08	27.08		27.17	0.48	27.66
01-Jan-19 22 0.8 1.15 1.12 1.04 0.62 1.15 0.79 0.53 0.73 1.88	9.81 0.981	19.62	274.68	7%	329.62	23.54	22.71		22.79	0.50	23.29
01-Jan-19 23 0.6 0.98 1.02 0.79 0.63 1.12 0.51 0.81 0.7 1.93	9.09 0.909	18.18	272.70	7%	327.24	21.82	21.04		21.11	0.50	21.61
01-Jan-19 24 0.52 1.02 0.64 0.78 0.64 1.01 0.34 0.34 0.71 1.86	7.86 0.786	15.72	251.52	6%	301.82	18.86	18.19		18.26	2.55	20.81