

TID - Status Quo & Financial Impact Predictions

August 2022



Presenter: Chris Gower

Manager: Revenue Protection

Buffalo City Metropolitan

Implementation Process for TID readiness

Plan A

- Smart meter retrofit project installations

Plan B

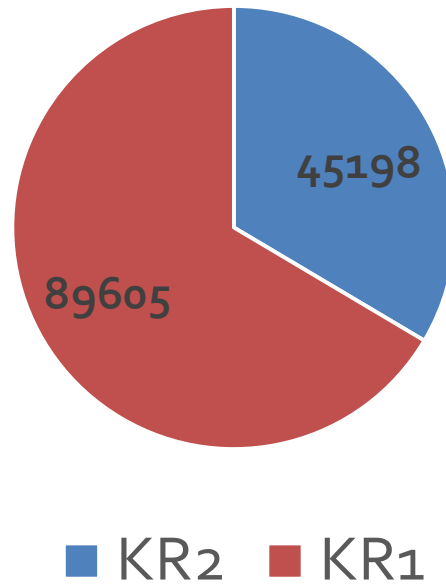
- Customer self help platforms
- Operational staff

Pre-Paid Smart Meter Stats (as at 01.08.2022)

Type	Business	Domestic	Indigent	Large	Temp	Grand Total
Non SM	1766	55275	40153	29	13	97236
SM	1143	19909	16514		1	37567
Grand Total	2909	75184	56667	29	14	134803

The Status Quo

TID PROGRESS



	Total	KR2	KR1
Prepaid Split	134803	45198	89605
Percentage	100%	34%	66%

TID Updates by User

	202204	202205	202206	202207	202208	Total
Ayanda.Mkumla	1			2		3
BCMMLocalAdmin	1					1
bomikazi.luvulo	512	1 008	1 055	451	27	3 053
Cashier	40	40	37	18	9	144
Florence.Pillay	17	6	10	18		51
Funeka.Sidzumo	6	4	7	1	4	22
james.brown			13	4		17
luyanda.gatyana	1		1			2
Martin.VanJaarsveld			10			10
MobileAuditApp	116	73	80	56	39	364
Ntombikayise.Matiwane	1			2		3
ondela.mantanga	1 081	1 136				2 217
PPWUSSD	24	23	206	94	48	395
tashana.abrahams	21	38	32	9	10	110
Werner.Henning	6		3	1	6	16
zininzi.menziwa	162		955	657	94	1 868
Zolelwa.Tsawu	5	7	11	12	1	36
Total	1 994	2 335	2 420	1 325	238	8 312

TOTAL REVENUE REQUIREMENT – YEAR 2

COS - Year 2

Customer Categories	Eskom Energy Purchase - excl. losses	Eskom Energy Purchase - cost of losses	Total Revenue Requirement	% allocation
Prepaid Indigent	R 148 067 114	R 22 686 301	R 170 753 415	9.59%
Prepaid Domestic	R 359 507 756	R 55 082 462	R 414 590 219	23.28%
Prepaid Business	R 30 987 584	R 4 747 804	R 35 735 388	2.01%
Prepaid LPU	R 1 606 835	R 246 193	R 1 853 028	0.10%
Conv Domestic Indigent	R 3 941 179	R 603 853	R 4 545 032	0.26%
Conv Domestic	R 86 437 668	R 13 243 663	R 99 681 331	5.60%
Conv Commercial SPU	R 61 176 512	R 9 373 241	R 70 549 753	3.96%
Conv Industrial 400V	R 316 078 762	R 48 428 431	R 364 507 192	20.47%
Conv Industrial 11kV	R 348 192 758	R 53 348 820	R 401 541 578	22.55%
Conv Industrial TOU 400V	R 9 345 187	R 1 431 835	R 10 777 022	0.61%
Conv Industrial TOU 11kV	R 24 124 564	R 3 696 277	R 27 820 842	1.56%
Conv IDZ TOU	R 60 318 074	R 9 241 714	R 69 559 788	3.91%
Conv Other	R 531 614	R 81 452	R 613 066	0.03%
Conv Internal	R 57 280 170	R 8 776 258	R 66 056 428	3.71%
Conv Street and Traffic Lights	R 36 522 608	R 5 595 860	R 42 118 469	2.37%
	R 1 544 118 385	R 236 584 165	R 1 780 702 550	100.00%

34.98%

TOTAL REVENUE LOSS – TID STATUS FOR YEAR 2

Year 2 - COS

		TID Readiness Estimations- Impact on Income						
TID Status		30%	40%	50%	60%	70%	80%	90%
Function:	TID Impact on Prepay Income	70%	60%	50%	40%	30%	20%	10%
Customer Categories	Revenue Requirement							
Prepaid Indigent	R 148 067 114	R 44 420 134	R 59 226 845	R 74 033 557	R 88 840 268	R 103 646 980	R 118 453 691	R 133 260 402
Prepaid Domestic	R 359 507 756	R 107 852 327	R 143 803 103	R 179 753 878	R 215 704 654	R 251 655 430	R 287 606 205	R 323 556 981
Prepaid Business	R 30 987 584	R 9 296 275	R 12 395 034	R 15 493 792	R 18 592 550	R 21 691 309	R 24 790 067	R 27 888 826
Prepaid LPU	R 1 606 835	R 482 050	R 642 734	R 803 417	R 964 101	R 1 124 784	R 1 285 468	R 1 446 151
Total	R 540 169 289							
	Estimated revenue income @ TID status	R 162 050 787	R 216 067 716	R 270 084 644	R 324 101 573	R 378 118 502	R 432 135 431	R 486 152 360
	Less Income per year	R 378 118 502	R 324 101 573	R 270 084 644	R 216 067 716	R 162 050 787	R 108 033 858	R 54 016 929
	Less Income per month after Nov 24	R 31 509 875	R 27 008 464	R 22 507 054	R 18 005 643	R 13 504 232	R 9 002 821	R 4 501 411
	Impact on total budgetted income	24.49%	20.99%	17.49%	13.99%	10.49%	7.00%	3.50%

Total budget required

R 1 544 118 385

Step 3: Total NTL (energy) calculations for Year 0

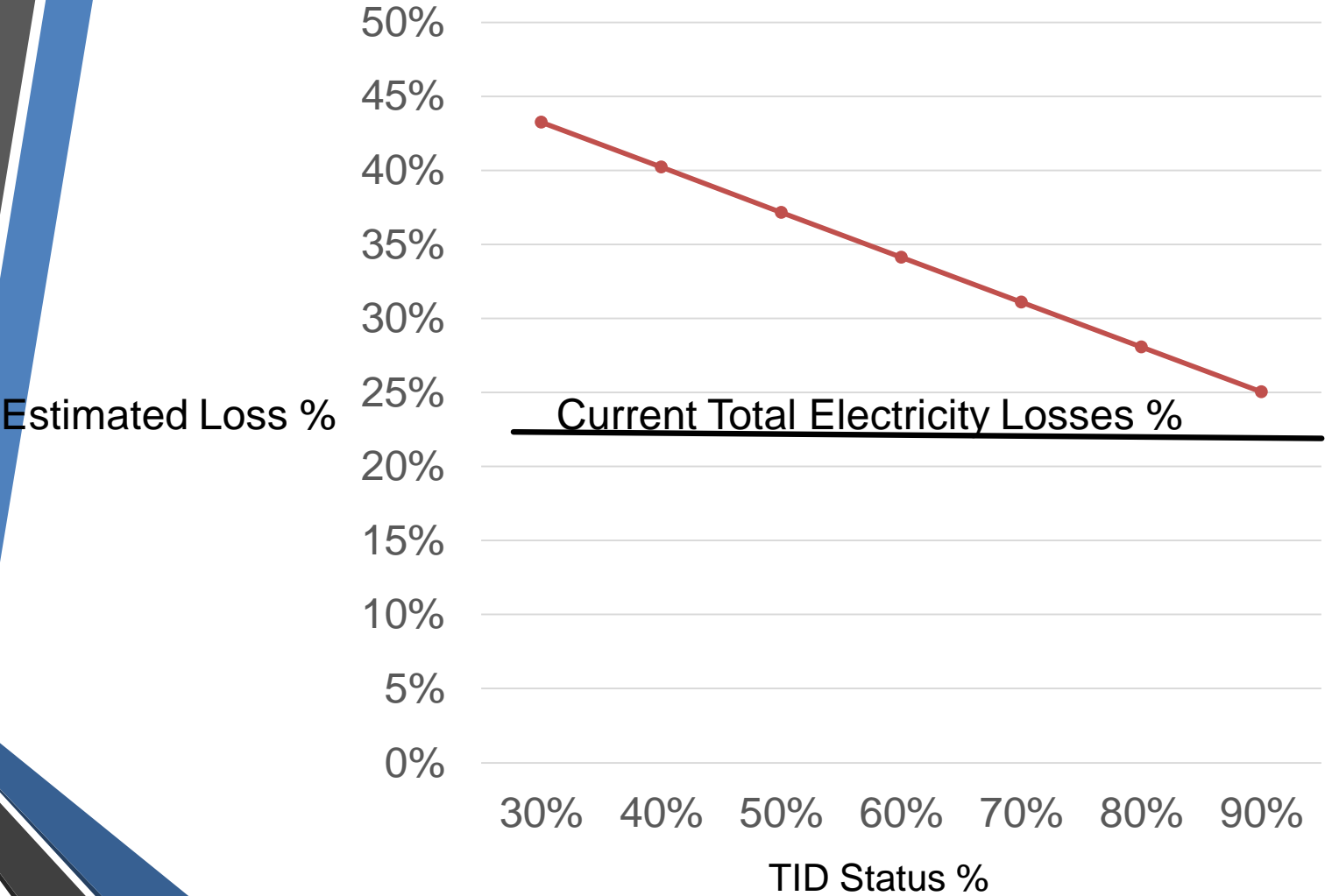
<i>Total losses for Year 0</i>	kWh	310 008 736
<i>Total technical losses for Year 0</i>	kWh	141 639 866
Total non-technical losses for Year 0	kWh	168 368 870
<i>Total loss factor</i>	%	22%
<i>Of which..technical loss factor =</i>	%	10%
<i>...NT loss factor =</i>	%	12%

RISKS

Risks

- Lose +24% of our income or + R600 million
- Theft losses increase

Estimated Escalation in Total Electricity Losses (Worst Case Scenario)





Thank you.....