LAMPIRAN

LAMPIRAN A DATA PLN KOTA SERANG

Tabel 1.a Data Penjualan Energi Listrik Kota Serang Tahun 2016-2021

No.	Sektor	2016	2017	2018	2019	2020	2021
1	**Pelanggan**						
	Rumah Tangga	199.485	212.387	225.219	237.265	247.875	258.853
	Bisnis	14.734	16.533	18.682	20.276	20.947	21.449
	Industri	42	43	46	48	55	61
	Sosial	5009	5.400	5.883	6.243	6.497	6.696
	Pemerintah	975	1.046	1.138	1.197	1.230	1.272
	Multiguna	15	31	70	131	267	269
	Total	**220.260**	**235.440**	**251.038**	**265.160**	**276.871**	**288.600**
2	**Daya Tersambung (MVA)**						
	Rumah Tangga	170.071.400	184.567.000	198.606.500	212.860.150	227.180.100	242.397.000
	Bisnis	53.078.550	57.343.850	62.247.200	64.693.100	66.805.200	69.840.550
	Industri	2.186.950	2.027.050	2.417.350	2.484.650	3.011.850	3.943.550
	Sosial	13.464.900	13.551.600	14.732.600	16.879.500	17.571.050	18.716.850
	Pemerintah	14.194.660	14.722.110	16.337.510	17.042.110	17.602.160	18.457.360
	Multiguna	36.100	124.100	141.650	173.800	447.950	257.350
	Total	**253.032.560**	**272.335.710**	**294.482.810**	**314.403.310**	**353.612.660**	**353.612.660**
3	**Penjualan (kWh)**						
	Rumah Tangga	19.698.346	373.760.851	388.741.763	415.888.166	455.393.784	464.576.241
	Bisnis	86.498.148	94.918.835	101.010.592	109.169.904	110.963.543	112.329.328
	Industri	3.395.156	2.812.361	2.816.081	2.550.016	3.205.347	4.573.186
	Sosial	10.698.346	21.161.180	23.339.144	26.571.363	25.205.046	27.233.004
	Pemerintah	22.513.859	23.176.062	23.804.673	25.128.856	24.473.146	25.102.109
	Multiguna	235.665	216.623	266.245	320.698	426.262	551.079
	Total	**505.547.344**	**516.045.912**	**539.978.498**	**579.629.003**	**619.667.128**	**634.364.947**

LAMPIRAN B DATA BPS KOTA SERANG

Tabel 1.b Data Penduduk Kota Serang Tahun 2016-2021

Tahun	Jumlah Penduduk
2016	665004
2017	666600
2018	677804
2019	688603
2020	692101
2021	704618

Tabel 2.b Data PDRB Kota Serang Tahun 2016-2021

Tahun	PDRB
2016	36383342.19
2017	38808758.42
2018	41405763.71
2019	44187163.87
2020	47166768.18
2021	50359471.57

LAMPIRAN C DATA PERAMALAN LISTRIK KOTA SERANG

Tabel C.1 Data Peramalan Listrik Kota Serang Tahun 2022-2027 menggunakan JST

Hasil Peramalan Per Sektor						
Tahun	**Sosial**	**Rumah Tangga**	**Bisnis**	**Industri**	**Pemerintahan**	**Multiguna**
2022	29654068.04	479114768.8	123421713	3830605.919	26253922.57	612027.4804
2023	31717887.66	512740054	130125034.6	3986947.847	26549259.62	742379.3571
2024	33873762.71	539137113.4	137380995.3	4198758.806	27146257.14	904419.8922
2025	36046425.51	563489977.3	144712351.3	4421230.326	27739175.59	1097450.686
2026	38664145.59	596303081.3	153201768.3	4659202.907	28383291.15	1354047.441
2027	41323304.1	627239164.1	161821229	4909332.763	29024051.39	1664141.637

Tabel C.2 Data Peramalan Listrik Kota Serang Tahun 2022-2027 menggunakan *Trend* Eksponensial

Hasil Peramalan Per Sektor						
Tahun	**Sosial**	**Rumah Tangga**	**Bisnis**	**Industri**	**Permerintahan**	**Multiguna**
2022	29706630.29	487696565.8	123271675.7	3786487.133	25966141.35	611105.2141
2023	31717887.66	512740054	130125034.6	3986947.848	26549259.62	742379.357
2024	33873762.71	539137113.4	137380995.3	4198758.806	27146257.14	904419.8921
2025	36185231.59	566964395.1	145064417.6	4422602.06	27757481.93	1105011.183
2026	38664145.59	596303081.4	153201768.3	4659202.906	28383291.15	1354047.441
2027	41323304.1	627239164.1	161821229	4909332.763	29024051.39	1664141.637

LAMPIRAN D HASIL PERHITUNGAN DENORMALISASI

X_{2022} = 0,5 × (1,381627105+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 2,3816271 × 128.817.603 kWh + 505.547.344 kWh
= 658.945.091 kWh

X_{2023} = 0,5 × (1,73081306+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 2,73081306 × 128.817.603 kWh + 505.547.344 kWh
= 681.435.740 kWh

X_{2024} = 0,5 × (2,256152502+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 3,256152502 × 128.817.603 kWh + 505.547.344 kWh
= 715.272.224 kWh

X_{2025} = 0,5 × (2,785297689+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 3,785297689 × 128.817.603 kWh + 505.547.344 kWh
= 749.353.831 kWh

X_{2026} = 0,5 × (3,438080642+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 4,438080642 × 128.817.603 kWh + 505.547.344 kWh
= 791.398.799 kWh

X_{2027} = 0,5 × (3,853999034+1) × (634.364.947 kWh - 505.547.344 kWh) +505.547.344 kWh
= 0,5 × 4,853999034 × 128.817.603 kWh + 505.547.344 kWh
= 818.187.604 kWh