

Calculul rețelei alimentate din PTAB nr. 1 -Circuit nr. 1

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit si a CPT

P _{c mono} =				8 P _{c tri} =		Urban/Rural (U/R)					R		Transformator:							630 kVA		Isc sistem IV 4 kA						
Pabs / cumulat [kW]	Nr. Cons cumul.	nr. Cons. Trons	P _c	Coef. Rural	Inom [A]	Lung (m)	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du	ΔU tronson	ΔU cumulat	Stalpi	Un	Zi+Zi _{scc} 3F [Ω]	Ztronson [Ω]	Zi+Zi _{scc} 1F [Ω]	Ztronson [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins kA
							Sect [mmp]	Nul [mmp]	Rtors [Ω]	Xtors [Ω]	R nul tors [Ω]	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat	[V]	[%]	[%]		[V]							
Tronson PTAB - pct. calcul nr. 1																												
92.0	25			0.46	147.7	100	150c	120	0.0202	0.0077	0.045		0	0	1124.0	0.0	5.4	1.34	1.34		400	0.084866	0.08	0.30107	0.30	2301	250	9.2
92.0	25			0.46	147.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.34		400	0	0.08	0	0.30	2301	250	9.2
92.0	25			0.46	147.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.34		400	0	0.08	0	0.30	2301	250	9.2
92.0	25			0.46	147.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.34		400	0	0.08	0	0.30	2301	250	9.2
92.0	25			0.46	147.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.34		400	0	0.08	0	0.30	2301	250	9.2
															0.0	0.0	0.0	0.00	1.34		400	0	0.08	0	0.30	2301	250	9.2
Tronson pct. calcul nr. 1 - pct. calcul nr. 2																												
92.0	25	12	8	0.46	147.7	120	95	70	0.03636	0.00972	0.054		0	0	2023.2	0.0	9.3	2.31	3.65		400	0.037637	0.12	0.2772825	0.58	1198	200	6.0
58.2	13			0.56	93.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.65		400	0	0.12	0	0.58	1198	200	6.0
58.2	13			0.56	93.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.65		400	0	0.12	0	0.58	1198	200	6.0
58.2	13			0.56	93.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.65		400	0	0.12	0	0.58	1198	200	6.0
																						0.12		0.58				
Tronson pct. calcul nr. 2 - pct. calcul nr. 3																												
58.2	13	13	8	0.56	93.5	100	95	70	0.0303	0.0081	0.045		0	0	675.7	0.0	4.88	1.22	4.87		400	0.031364	0.15	0.2310688	0.81	856	160	5.3
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.87		400	0	0.15	0	0.81	856	160	5.3
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.87		400	0	0.15	0	0.81	856	160	5.3
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.87		400	0	0.15	0	0.81	856	160	5.3
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.87		400	0	0.15	0	0.81	856	160	5.3
																						0.15		0.81				
CPT total KWh/an											7645.8																	

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 2 -Circuit nr. 1

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

P _{c mono} =			8 P _{c tri} =			Urban/Rural (U/R)		R		Transformator:								630 kVA		Isc sistem 4 kA								
Pabs / cumulat [kW]	Nr. Cons cumul.	nr. Cons. Trons	Pc	Coef.	Inom [A]	Lung (m)	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du [V]	ΔU tronson [%]	ΔU cumulat [%]	Stalpi	Un [V]	Zi+Zt _{scc} 3F [Ω]	Ztronson scc 3F [Ω]	Zi+Zt _{scc} 1F [Ω]	Ztronson scc 1F [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins kA
				Rural			Sect [mmp]	Nul [mmp]	Rtors [Ω]	Xtors [Ω]	R nul tors [Ω]	Sect neiz	Rneiz	Zi neiz	Torsadat	Neizolat												
Tronson PTAB - pct. calcul nr. 11																												
73.4	18			0.51	117.9	115	150c	70	0.02323	0.008855	0.05175		0	0	823.7	0.0	4.9	1.23	1.23		400	0.086832	0.09	0.3272389	0.33	2117	250	8.5
73.4	18			0.51	117.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.23		400	0	0.09	0	0.33	2117	250	8.5
73.4	18			0.51	117.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.23		400	0	0.09	0	0.33	2117	250	8.5
73.4	18			0.51	117.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.23		400	0	0.09	0	0.33	2117	250	8.5
73.4	18			0.51	117.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.23		400	0	0.09	0	0.33	2117	250	8.5
																						0.09		0.33				
Tronson pct. calcul nr. 11 - pct. calcul nr. 13																												
34.7	7	7	8	0.62	55.7	100	70	70	0.0437	0.0084	0		0	0	346.3	0.0	4.1	1.02	2.25		400	0.0445	0.13	0.1404542	0.47	1481	250	5.9
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.25		400	0	0.13	0	0.47	1481	250	5.9
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.25		400	0	0.13	0	0.47	1481	250	5.9
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.25		400	0	0.13	0	0.47	1481	250	5.9
				0																								
Tronson pct. calcul nr. 11 - pct. calcul nr. 12																												
51.0	11	11	8	0.58	82.0	220	95	70	0.06666	0.01782	0.099		0	0	1141.6	0.0	9.4	2.35	3.58		400	0.069001	0.16	0.5083513	0.84	829	160	5.2
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.16	0	0.84	829	160	5.2
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.16	0	0.84	829	160	5.2
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.16	0	0.84	829	160	5.2
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.16	0	0.84	829	160	5.2
																						0.16		0.84				
CPT total KWh/an											4623.3																	

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 1 -Circuit nr. 2

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

Pabs / cumulat [kW]		Nr. Cons. cumul.	nr. Cons. Tronson	Pc	Coef. Rural	Inom [A]	Lung (m)	Urban/Rural (U/R)					R	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		Transformator:			630	kVA	Iscc sistem 11					4	kA		
								Sect [mmp]	Nul [mmp]	Rtors [Ω]	Xtors [Ω]	R nul tors [Ω]	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat	du [V]	ΔU tronson [%]	ΔU cumulat [%]	Stalpi	Un [V]	Zt+Zt scc 3F [Ω]	Ztronson scc 3F [Ω]	Zt+Zt scc 1F [Ω]	Ztronson scc 1F [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins								
																		Tronson PTA B- pct. calcul nr. 4																			
96.3	28				0.43	154.7	40	150c	70	0.00808	0.00308	0.018		0	0	492.8	0.0	2.2	0.56	0.56		400	0.07786	0.08	0.20749	0.21	3339	250	13.4								
96.3	28				0.43	154.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.56		400	0	0.08	0	0.21	3339	250	13.4								
96.3	28				0.43	154.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.56		400	0	0.08	0	0.21	3339	250	13.4								
96.3	28				0.43	154.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.56		400	0	0.08	0	0.21	3339	250	13.4								
96.3	28				0.43	154.7			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.56		400	0	0.08	0	0.21	3339	250	13.4								
																0.0	0.0	0.0	0.00	0.56		400	0	0.08	0	0.21	3339	250	13.4								
																		Tronson pct. calcul nr. 4 - pct. calcul nr. 5																			
96.3	28	14	8		0.43	154.7	120	95	70	0.03636	0.00972	0.054		0	0	2217.7	0.0	9.7	2.42	2.98		400	0.03764	0.12	0.277283	0.48	1429	200	7.1								
61.6	14				0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.98		400	0	0.12	0	0.48	1429	200	7.1								
61.6	14				0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.98		400	0	0.12	0	0.48	1429	200	7.1								
61.6	14				0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.98		400	0	0.12	0	0.48	1429	200	7.1								
																0.0	0.0	0.0	0.00	2.98		400	0	0.12	0	0.48	1429	200	7.1								
																		Tronson pct. calcul nr. 5 - pct. calcul nr. 6																			
61.6	14	14	8		0.55	98.9	120	95	70	0.03636	0.00972	0.054		0	0	907.0	0.0	6.20	1.55	4.53		400	0.03764	0.15	0.277283	0.76	909	160	5.7								
0.0	0				0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.53		400	0	0.15	0	0.76	909	160	5.7								
0.0	0				0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.53		400	0	0.15	0	0.76	909	160	5.7								
0.0	0				0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.53		400	0	0.15	0	0.76	909	160	5.7								
0.0	0				0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.53		400	0	0.15	0	0.76	909	160	5.7								
																0.0	0.0	0.00	0.00	4.53		400	0	0.15	0	0.76	909	160	5.7								
CPT total KWh/an												7235.1																									

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 1 -Circuit nr. 3

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

P _{c mono} =				8 P _{c tri} =		Urban/Rural (U/R)					R		Transformator:							630		kVA		Iscc sistem II 4 kA						
Pabs /	Nr.		Pc	Coef.	Inom	Lung	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du	ΔU	ΔU		Un	Zi+Zt _{scc}	Ztronson	Zi+Zt _{scc}	Ztronson	Isc	In sig			
cumulat	Cons	nr.	Pc	Rural	[A]	(m)	Sect	Nul	Rtors	Xtors	R nul tors	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat	[V]	tronson	cumulat	Stalpi	[V]	3F [Ω]	scc 3F	1F [Ω]	scc 1F	monofazat	[A]	[A]	Isc/Ins	
[kW]	cumul.	Trons					[mm]	[mm]	[Ω]	[Ω]	[Ω]							[%]	[%]											
Tronson PTA B- pct. calcul nr. 7																														
97.4	29			0.42	156.5	25	150c	70	0.00505	0.001925	0.01125		0	0	315.2	0.0	1.4	0.35	0.35		400	0.076356	0.08	0.1889404	0.19	3667	250	14.7		
97.4	29			0.42	156.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.35		400	0	0.08	0	0.19	3667	250	14.7		
97.4	29			0.42	156.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.35		400	0	0.08	0	0.19	3667	250	14.7		
97.4	29			0.42	156.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.35		400	0	0.08	0	0.19	3667	250	14.7		
97.4	29			0.42	156.5			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.35		400	0	0.08	0	0.19	3667	250	14.7		
															0.0	0.0	0.0	0.00	0.35		400	0.08		0.19						
Tronson pct. calcul nr. 7 - pct. calcul nr. 8																														
97.4	29	15	8	0.42	156.5	130	95	70	0.03939	0.01053	0.0585		0	0	2458.7	0.0	10.6	2.66	3.01		400	0.040773	0.12	0.3003894	0.49	1416	200	7.1		
61.6	14			0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.01		400	0	0.12	0	0.49	1416	200	7.1		
61.6	14			0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.01		400	0	0.12	0	0.49	1416	200	7.1		
61.6	14			0.55	98.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.01		400	0	0.12	0	0.49	1416	200	7.1		
								0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.01		400	0	0.12	0	0.49	1416	200	7.1		
Tronson pct. calcul nr. 8 - pct. calcul nr. 9																														
61.6	14	14	8	0.55	98.9	110	95	70	0.03333	0.00891	0.0495		0	0	831.5	0.0	5.68	1.42	4.43		400	0.0345	0.15	0.2541756	0.74	932	160	5.8		
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.43		400	0	0.15	0	0.74	932	160	5.8		
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.43		400	0	0.15	0	0.74	932	160	5.8		
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.43		400	0	0.15	0	0.74	932	160	5.8		
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.43		400	0	0.15	0	0.74	932	160	5.8		
															0.0	0.0	0.00	0.00	4.43		400	0	0.15	0	0.74	932	160	5.8		
										CPT total KWh/an							7210.7													

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 2 -Circuit nr. 3

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

P _{c mono} =				8 P _{c tri} =		Urban/Rural (U/R)					R		Transformator:						630 kVA		Iscc sistem 4 kA							
Pabs / cumulat [kW]	Nr. Cons cumul.	nr. Cons. Trons	Pc	Coef.	Inom [A]	Lung (m)	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du [V]	ΔU tronson [%]	ΔU cumulat [%]	Stalpi	Un [V]	Zl+Zt scc 3F [Ω]	Ztronson scc 3F [Ω]	Zl+Zt scc 1F [Ω]	Ztronson scc 1F [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins
				Rural			Sect [mmp]	Nul [mmp]	Rtors [Ω]	Xtors [Ω]	R nul tors [Ω]	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat												
Tronson PTAB- pct. calcul nr. 17																												
90.2	24			0.47	144.9	210	150c	120	0.04242	0.01617	0.0945		0	0	2271.0	0.0	11.0	2.76	2.76		400	0.100826	0.10	0.5034185	0.50	1376	250	5.5
90.2	24			0.47	144.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	250	5.5
90.2	24			0.47	144.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	250	5.5
90.2	24			0.47	144.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	250	5.5
90.2	24			0.47	144.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	250	5.5
																						0.10		0.50				
0.0	0			0	0.0			25	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	40	34.4
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	40	34.4
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	40	34.4
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	2.76		400	0	0.10	0	0.50	1376	40	34.4
				0																								
Tronson pct. calcul nr. 17 - pct. calcul nr.18																												
90.2	24	3	8	0.47	144.9	30	95	70	0.00909	0.00243	0.0135		0	0	486.6	0.0	2.3	0.57	3.32		400	0.009409	0.11	0.0693206	0.57	1210	200	6.0
84.0	21			0.5	134.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.32		400	0	0.11	0	0.57	1210	200	6.0
84.0	21			0.5	134.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.32		400	0	0.11	0	0.57	1210	200	6.0
84.0	21			0.5	134.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.32		400	0	0.11	0	0.57	1210	200	6.0
84.0	21			0.5	134.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.32		400	0	0.11	0	0.57	1210	200	6.0
								0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.32		400	0	0.11	0	0.57	1210	200	6.0
																						0.11		0.57				
Tronson pct. calcul nr.18 - pct. calcul nr. 19																												
47.2	10	10	8	0.59	75.8	80	70	70	0.03496	0.00672	0.036		0	0	512.0	0.0	4.4	1.11	4.44		400	0.0356	0.15	0.2166647	0.79	878	125	7.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.44		400	0	0.15	0	0.79	878	125	7.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.44		400	0	0.15	0	0.79	878	125	7.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.44		400	0	0.15	0	0.79	878	125	7.0
								0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.44		400	0	0.15	0	0.79	878	125	7.0
Tronson pct. calcul nr. 18 - pct. calcul nr. 20																												
51.0	11	11	8	0.58	82.0	150	95	70	0.04545	0.01215	0.0675		0	0	778.4	0.0	6.42	1.60	4.93		400	0.047046	0.16	0.3466031	0.92	754	125	6.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.93		400	0	0.16	0	0.92	754	125	6.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.93		400	0	0.16	0	0.92	754	125	6.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.93		400	0	0.16	0	0.92	754	125	6.0
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.93		400	0	0.16	0	0.92	754	125	6.0
								0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.93		400	0	0.16	0	0.92	754	125	6.0
																						0.16		0.92				
CPT total KWh/an											8096.1																	

Calculul rețelei alimentate din PTAB nr. 1 -Circuit nr. 4

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit si a CPT

P _{c mono} =				8 P _{c tri} =		Urban/Rural (U/R)					R		Transformator:										630		kVA		Isc sistem 4 kA							
P _c	Coef.	Inom	Lung	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du	ΔU tronson	ΔU cumulat	Stalpi	Un	Zi+Zt scc 3F [Ω]	Ztrons scc 3F [Ω]	Zi+Zt scc 1F [Ω]	Ztrons scc 1F [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins									
	Rural			Sect	Nul	Rtors	Xtors	R nul tors	Sect neiz	Rneiz	ZI neiz	Torsadat	Neizolat																					
	[A]	(m)	[mm ²]	[mm ²]	[Ω]	[Ω]	[Ω]	[V]	[%]	[%]	[V]	[A]	[A]	[V]	[%]	[%]	[V]	[V]	[Ω]	[Ω]	[Ω]	[Ω]	[A]	[A]	[A]	[A]								
Tronson PTA B- pct. calcul nr. 10																																		
	0.39	170.3	45	150c	70	0.00909	0.003465	0.02025		0	0	672.5	0.0	2.8	0.69	0.69		400	0.078388	0.08	0.2142593	0.21	3234	250	12.9									
	0.39	170.3			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.69		400	0	0.08	0	0.21	3234	250	12.9									
	0.39	170.3			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.69		400	0	0.08	0	0.21	3234	250	12.9									
	0.39	170.3			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.69		400	0	0.08	0	0.21	3234	250	12.9									
	0.39	170.3			0	0	0	0		0	0	0.0	0.0	0.0	0.00	0.69		400	0	0.08	0	0.21	3234	250	12.9									
Tronson pct. calcul nr. 10 - pct. calcul nr. 11																																		
																			0.08		0.21													
8	0.39	170.3	140	95	70	0.04242	0.01134	0.063		0	0	3138.2	0.0	12.5	3.11	3.81		400	0.04391	0.12	0.3234963	0.54	1288	200	6.4									
	0.53	108.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.81		400	0	0.12	0	0.54	1288	200	6.4									
	0.53	108.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.81		400	0	0.12	0	0.54	1288	200	6.4									
	0.53	108.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.81		400	0	0.12	0	0.54	1288	200	6.4									
	0.53	108.9			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.81		400	0	0.12	0	0.54	1288	200	6.4									
Tronson pct. calcul nr. 11 - pct. calcul nr. 12																																		
8	0.53	108.9	150	95	70	0.04545	0.01215	0.0675		0	0	1375.1	0.0	8.53	2.13	5.94		400	0.047046	0.17	0.3466031	0.88	783	160	5.0									
	0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.94		400	0	0.17	0	0.88	783	160	5.0									
	0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.94		400	0	0.17	0	0.88	783	160	5.0									
	0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.94		400	0	0.17	0	0.88	783	160	5.0									
	0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.94		400	0	0.17	0	0.88	783	160	5.0									
CPT total KWh/an							10371.6																											

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 2 -Circuit nr. 4

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

P_{c mono} =

8 P_{c tri} =

Urban/Rural (U/R)

R

Transformator:

630 kVA

Isc sistem 4 kA

Pabs / cumulat [kW]	Nr. Cons cumul.	nr. Cons. Trons	Pc	Coef.	Inom [A]	Lung (m)	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du [V]	ΔU	ΔU	Stalpi	Un [V]	Zi+Zt scc	Ztronson	Zi+Zt scc	Ztronson	Isc	In sig	Isc/Ins
				Rural			Sect	Nul	Rtors	Xtors	R nul tors	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat		tronson	cumulat									
							[mmp]	[mmp]	[Ω]	[Ω]	[Ω]	[mmp]	[mmp]	[Ω]	[Ω]	[Ω]		[Ω]	[Ω]			[Ω]	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]	
Tronson PTAB- pct. calcul nr. 21																												
64.8	15			0.54	104.0	325	150c	70	0.06565	0.025025	0.14625		0	0	1812.3	0.0	12.3	3.06	3.06		400	0.120305	0.12	0.7267293	0.73	953	160	6.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.06		400	0	0.12	0	0.73	953	160	6.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.06		400	0	0.12	0	0.73	953	160	6.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.06		400	0	0.12	0	0.73	953	160	6.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.06		400	0	0.12	0	0.73	953	160	6.0
Tronson pct. calcul nr. 21 - pct. calcul nr. 22																												
64.8	15			0.54	104.0	30	95	70	0.00909	0.00243	0.0135		0	0	250.9	0.0	1.6	0.41	3.47		400	0.009409	0.13	0.0693206	0.80	870	125	7.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.47		400	0	0.13	0	0.80	870	125	7.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.47		400	0	0.13	0	0.80	870	125	7.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.47		400	0	0.13	0	0.80	870	125	7.0
64.8	15			0.54	104.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.47		400	0	0.13	0	0.80	870	125	7.0
Tronson pct. calcul nr. 22 - pct. calcul nr. 25																												
29.8	6	6	8	0.62	47.8	70	70	70	0.03059	0.00588	0.0315		0	0	178.1	0.0	2.5	0.61	4.08		400	0.03115	0.16	0.1895816	0.99	703	125	5.6
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.08		400	0	0.16	0	0.99	703	125	5.6
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.08		400	0	0.16	0	0.99	703	125	5.6
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	4.08		400	0	0.16	0	0.99	703	125	5.6
Tronson pct. calcul nr. 22 - pct. calcul nr. 23																												
43.2	9	3	8	0.6	69.4	60	95	70	0.01818	0.00486	0.027		0	0	223.1	0.0	2.17	0.54	4.02		400	0.018818	0.15	0.1386413	0.93	741	125	5.9
29.8	6			0.62	47.8			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.02		400	0	0.15	0	0.93	741	125	5.9
29.8	6			0.62	47.8			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.02		400	0	0.15	0	0.93	741	125	5.9
29.8	6			0.62	47.8			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.02		400	0	0.15	0	0.93	741	125	5.9
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	4.02		400	0	0.15	0	0.93	741	125	5.9
Tronson pct. calcul nr. 23 - pct. calcul nr. 26																												
20.2	4	4	8	0.63	32.4	50	70	70	0.02185	0.0042	0.0315		0		58.4	0.0	1.19	0.30	4.31		400	0.02225	0.17	0.1620217	1.10	632	125	5.1
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.31		400	0	0.17	0	1.10	632	125	5.1
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.31		400	0	0.17	0	1.10	632	125	5.1
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.31		400	0	0.17	0	1.10	632	125	5.1
Tronson pct. calcul nr. 23 - pct. calcul nr. 24																												
10.4	2	2	8	0.65	16.7	60	95	70	0.01818	0.00486	0.027		0		12.9	0.0	0.52	0.13	4.15		400	0.018818	0.17	0.1386413	1.07	645	125	5.2
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.15		400	0	0.17	0	1.07	645	125	5.2
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.15		400	0	0.17	0	1.07	645	125	5.2
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.15		400	0	0.17	0	1.07	645	125	5.2
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.15		400	0	0.17	0	1.07	645	125	5.2
0.0	0			0	0.0			0	0	0	0		0		0.0	0.0	0.00	0.00	4.15		400	0	0.17	0	1.07	645	125	5.2
CPT total																												
																5071.4												

CPT total
KWh/an

5071.4

Intocmit : Liliana Lupescu



Calculul rețelei alimentate din PTAB nr. 1 -Circuit nr. 5

Calculul puterii absorbite, a caderii de tensiune, a curentului de scurtcircuit și a CPT

P _{c mono} =				8 P _{c tn} =			Urban/Rural (U/R)					R		Transformator:						630	kVA		Isc sistem 4 kA						
Pabs / cumulat [kW]	Nr. Cons cumul.	nr. Cons. Trons	Pc	Coef.	Inom [A]	Lung (m)	Cond torsadat /cablu (c)					Cond AL neizolat			CPT [kWh]		du [V]	ΔU tronson [%]	ΔU cumulat [%]	Stalpi	Un [V]	Zl+Zt scc 3F [Ω]	Ztronson scc 3F [Ω]	Zl+Zt scc 1F [Ω]	Ztronson scc 1F [Ω]	Isc monofazat [A]	In sig [A]	Isc/Ins	
				Rural			Sect [mmp]	Nul [mmp]	Rtors [Ω]	Xtors [Ω]	R nul tors [Ω]	Sect neiz	Rneiz	Zl neiz	Torsadat	Neizolat													
Tronson PTA B- pct. calcul nr. 13																													
81.6	20			0.51	131.0	100	150c	70	0.0202	0.0077	0.045		0	0	884.2	0.0	4.7	1.19	1.19		400	0.084866	0.08	0.30107	0.30	2301	250	9.2	
81.6	20			0.51	131.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.19		400	0	0.08	0	0.30	2301	250	9.2	
81.6	20			0.51	131.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.19		400	0	0.08	0	0.30	2301	250	9.2	
81.6	20			0.51	131.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.19		400	0	0.08	0	0.30	2301	250	9.2	
81.6	20			0.51	131.0			0	0	0	0		0	0	0.0	0.0	0.0	0.00	1.19		400	0	0.08	0	0.30	2301	250	9.2	
																						0.08		0.30					
Tronson pct. calcul nr. 13 - pct. calcul nr. 14																													
81.6	20	10	8	0.51	131.0	140	95	70	0.04242	0.01134	0.063		0	0	1856.9	0.0	9.6	2.39	3.58		400	0.04391	0.13	0.3234963	0.62	1109	200	5.5	
47.2	10			0.59	75.8			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.13	0	0.62	1109	200	5.5	
47.2	10			0.59	75.8			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.13	0	0.62	1109	200	5.5	
47.2	10			0.59	75.8			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.13	0	0.62	1109	200	5.5	
47.2	10			0.59	75.8			0	0	0	0		0	0	0.0	0.0	0.0	0.00	3.58		400	0	0.13	0	0.62	1109	200	5.5	
																						0.13		0.62					
Tronson pct. calcul nr. 14 - pct. calcul nr. 15																													
47.2	10	10	8	0.59	75.8	150	95	70	0.04545	0.01215	0.0675		0	0	665.7	0.0	5.94	1.48	5.07		400	0.047046	0.18	0.3466031	0.97	713	125	5.7	
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.07		400	0	0.18	0	0.97	713	125	5.7	
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.07		400	0	0.18	0	0.97	713	125	5.7	
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.07		400	0	0.18	0	0.97	713	125	5.7	
0.0	0			0	0.0			0	0	0	0		0	0	0.0	0.0	0.00	0.00	5.07		400	0	0.18	0	0.97	713	125	5.7	
																						0.18		0.97					
											CPT total KWh/an						6813.7												

Intocmit : Liliana Lupescu



PARAMETERS		Calculul de eficienta													
WACC (RRR)	6.94%														
Durata de viata a investitiei	28														
Impozit	16.0%														
Index Year		0	1	2	3	4	5	6	7	8	9	10	11	12	
Year		anul 0	anul 1	anul 2	anul 3	anul 4	anul 5	anul 6	anul 7	anul 8	anul 9	anul 10	anul 11	anul 12	
RON parameters															
CPI															
1 + CPI															
CPI cumulated															
All calculations in RON															
Investment I	4418665														
VENITURI, din care:			121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Venit provenit din tarif JT + MT corectat total clienti (lei) VEDC			121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Alte venituri conf Metodologie (care se detaliaza)			-	-	-	-	-	-	-	-	-	-	-	-	-
CHELTUIELI:															
EBITDA Venituri inainte de amortizari si taxe			101,879	101,879	101,879	101,879	101,879	101,601	101,323	101,045	100,767	100,489	100,211	99,933	
Amortizari			- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851	- 183,851
EBIT Venituri dupa amortizari			- 81,972	- 81,972	- 81,972	- 81,972	- 81,972	- 82,250	- 82,528	- 82,806	- 83,084	- 83,362	- 83,639	- 83,917	
Taxes			-	-	-	-	-	-	-	-	-	-	-	-	-
Venituri dupa impozit			- 81,972	- 81,972	- 81,972	- 81,972	- 81,972	- 82,250	- 82,528	- 82,806	- 83,084	- 83,362	- 83,639	- 83,917	
Adaugare amortizari			183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851	183,851
Free Cash Flows (RON, nominal) Venituri nete anuale neactualizate		- 4,418,665	101,879	101,879	101,879	101,879	101,879	101,601	101,323	101,045	100,767	100,489	100,211	99,933	
Free Cash Flows (RON, real) Venituri nete anuale actualizate		- 4,418,665	95,267	89,085	83,303	77,897	72,842	67,929	63,347	59,074	55,088	51,371	47,904	44,671	
Cummulative Cash Flow (RON, real) Valoare neta cumulata neactualizata			- 4,316,786	- 4,214,908	- 4,113,029	- 4,011,151	- 3,909,272	- 3,807,672	- 3,706,349	- 3,605,304	- 3,504,537	- 3,404,048	- 3,303,837	- 3,203,904	
Cummulative Cash Flow (RON, nominal) Valoare neta cumulata actualizata			- 4,323,398	- 4,234,313	- 4,151,010	- 4,073,113	- 4,000,271	- 3,932,342	- 3,868,995	- 3,809,921	- 3,754,833	- 3,703,463	- 3,655,558	- 3,610,887	
NPV, Valoare neta cumulta actualizata VNA		-3,090,284.45													
IRR% (RIR)		-0.01													

Durata de recuperare a investitiei DRI

nu se recupereaza investitia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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INVESTITIE TOTALA lei 4,418,665
INVESTITIE EFICIENTA lef 1,328,381
CONTRIBUTIE SOLICITANT lei - 3,090,284

Intocmit: ing. Liliana Lupescu Verificat: ing. Andreia Tutica





PARAMETERS																					
WACC (RRR)	6.94%																				
Durata de viata a investitiei	28																				
Impozit	16.0%																				
Index Year																					
Year		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
		anul 13	anul 14	anul 15	anul 16	anul 17	anul 18	anul 19	anul 20	anul 21	anul 22	anul 23	anul 24	anul 25	anul 26	anul 27	anul 28	anul 29	anul 30	anul 31	anul 32
RON parameters																					
CPI																					
1 + CPI																					
CPI cumulated																					
All calculations in RON																					
Investment I	4418665																				
VENITURI, din care:																					
Venit provenit din tarif JT + MT corectat total clienti (lei) VEDC		121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Alte venituri conf Metodologie (care se detaliaza)		121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHELTUIELI:																					
EBITDA Venituri Inalte de amortizari si taxe		99,655	99,377	99,100	98,822	98,544	98,266	97,988	97,710	97,432	97,154	96,876	96,598	96,598	96,598	96,598	96,598	96,598	96,598	96,598	96,598
Amortizari		- 182,174	- 182,174	- 182,174	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 95,842	- 83,349	- 83,349	- 83,349	- 83,349	- 83,349	- 83,349	- 83,349
EBIT Venituri dupa amortizari		- 82,519	- 82,797	- 83,074	- 2,980	- 2,702	- 2,424	- 2,146	- 1,868	- 1,590	- 1,312	- 1,034	- 757	- 13,249	- 13,249	- 13,249	- 13,249	- 13,249	- 13,249	- 13,249	- 13,249
Taxes		-	-	-	- 477	- 432	- 388	- 343	- 299	- 254	- 210	- 166	- 121	- 2,120	- 2,120	- 2,120	- 2,120	- 2,120	- 2,120	- 10,604	- 10,604
Venituri dupa impozit		- 82,519	- 82,797	- 83,074	- 2,503	- 2,270	- 2,036	- 1,803	- 1,569	- 1,336	- 1,102	- 869	- 636	- 11,129	- 11,129	- 11,129	- 11,129	- 11,129	- 11,129	- 55,668	- 55,668
Adaugare amortizari		182,174	182,174	182,174	95,842	95,842	95,842	95,842	95,842	95,842	95,842	95,842	95,842	83,349	83,349	83,349	83,349	83,349	83,349	30,326	30,326
Free Cash Flows (RON, nominal) Venituri nete anuale neactualizate		99,655	99,377	99,100	98,345	98,111	97,878	97,645	97,411	97,178	96,944	96,711	96,477	94,479	94,479	94,479	94,479	94,479	94,479	85,995	85,995
Free Cash Flows (RON, real) Venituri nete anuale actualizate		41,656	38,844	36,222	33,613	31,357	29,252	27,289	25,457	23,748	22,153	20,666	19,278	17,653	16,508	15,436	14,435	13,498	12,622	10,743	10,046
Cummulative Cash Flow (RON, real) Valoare neta cumulata neacualizata		- 3,104,248	- 3,004,871	- 2,905,771	- 2,807,426	- 2,709,315	- 2,611,437	- 2,513,793	- 2,416,381	- 2,319,204	- 2,222,260	- 2,125,549	- 2,029,071	- 1,934,593	- 1,840,114	- 1,745,636	- 1,651,157	- 1,556,679	- 1,462,200	- 1,376,205	- 1,290,210
Cummulative Cash Flow (RON, nominal)Valoare neta cumulata actualizata		- 3,569,231	- 3,530,387	- 3,494,165	- 3,460,552	- 3,429,195	- 3,399,943	- 3,372,654	- 3,347,197	- 3,323,449	- 3,301,296	- 3,280,630	- 3,261,352	- 3,243,699	- 3,227,191	- 3,211,755	- 3,197,320	- 3,183,822	- 3,171,200	- 3,160,457	- 3,150,411
NPV, Valoare neta cumulta actualizata VNA		-3,090,284.45																			
IRR% (RIR)		-0.01																			

Durata de recuperare a investitiei DRI

**nu se recupereaza
investitia**

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

INVESTITIE TOTALA

lei

4.418.665

INVESTITIE EFICIENTA Ief

lei

1.328.381

CONTRIBUTIE SOLICITANT

lei

- 3.090.284

Intocmit:

ing Liliانا Lupescu

PARAMETERS									
WACC (RRR)	6.94%								
Durata de viata a investitiei	28								
Impozit	16.0%								
Index Year		33	34	35	36	37	38	39	40
Year		anul 33	anul 34	anul 35	anul 36	anul 37	anul 38	anul 39	anul 40
RON parameters									
CPI									
1 + CPI									
CPI cumulated									
All calculations in RON									
Investment I	4418665								
VENITURI, din care:		121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Venit provenit din tarif JT + MT corectat total clienti (lei) VEDC		121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Alte venituri conf Metodologie (care se detaliaza)		-	-	-	-	-	-	-	-
CHELTUIELI:									
EBITDA Venituri inainte de amortizari si taxe		96,598	96,598	96,598	96,598	96,598	96,598	96,598	96,598
Amortizari	-	30,326	- 30,326	- 30,326	- 30,326	- 30,326	- 30,326	- 30,326	- 30,326
EBIT Venituri dupa amortizari		66,272	66,272	66,272	66,272	66,272	66,272	66,272	66,272
Taxes	-	10,604	- 10,604	- 10,604	- 10,604	- 10,604	- 10,604	- 10,604	- 10,604
Venituri dupa impozit		55,668	55,668	55,668	55,668	55,668	55,668	55,668	55,668
Adaugare amortizari		30,326	30,326	30,326	30,326	30,326	30,326	30,326	30,326
Free Cash Flows (RON, nominal) Venituri nete anuale neactualizate		85,995	85,995	85,995	85,995	85,995	85,995	85,995	85,995
Free Cash Flows (RON, real) Venituri nete anuale actualizate		9,394	8,784	8,214	7,681	7,183	6,717	6,281	5,873
Cummulative Cash Flow (RON, real) Valoare neta cumulata neactualizata	-	1,204,216	- 1,118,221	- 1,032,226	- 946,231	- 860,236	- 774,241	- 688,246	- 602,252
Cummulative Cash Flow (RON, nominal)Valoare neta cumulata actualizata	-	3,141,017	- 3,132,233	- 3,124,019	- 3,116,337	- 3,109,155	- 3,102,438	- 3,096,158	- 3,090,284
NPV, Valoare neta cumulata actualizata VNA	-3,090,284.45								
IRR% (RIR)	-0.01								

Durata de recuperare a investitiei DRI

nu se recupereaza investitia

000000000

INVESTITIE TOTALA

lei4,418,665

INVESTITIE EFICIENTA Ief

lei1,328,381

CONTRIBUTIE SOLICITANT

lei-3,090,284

Intocmit:

ing. Liliana Lupescu

CALCULUL CHELTUIELILOR ANUALE								
		Cheltuieli cu exploatare-intretinere si amortismentele						Le/an
Cod clasificare Ord ANRE 169/2018	Denumirea instalatiilor	Volum instalatii		Valoare conform DG (lei)	Durata de amortizare	Amortizare anuala	Cheltuieli specifice de mentenanta	Cheltuieli de mentenanta
		UM	Carit.					
2.1.16.5.	LEA 20 kV -echipament (STE / R)	km	0.00	54,109.74	15 an	3,607	75.51	0.00
1.1.7.2.	LEA 20 kV	buc	0.00	88,940.18	40 an	2,221	679.55	0.00
2.1.16.5.	LES 20 kV -echipament (DRV)	km	0.00	12,002.38	15 an	800	169.36	0.00
1.1.7.3.	LES 20kV	km	0.85	609,613.31	30 an	20,320	1,529.36	1,292.49
2.1.16.5.	Echipament PT / PTab	buc	3.00	1,228,869.85	15 an	81,925	240.82	722.47
2.1.16.3.1.	Transformator MT/IT	buc	2.00	299,820.57	24 an	12,493	240.82	481.64
1.1.3.2.	Anvelopa	buc	3.00	699,031.29	30 an	23,301	53.52	160.55
1.1.7.1.	LEA/LES LT echipament (cuie separate / selectivitate)	buc	16.00	20,119.54	12 an	1,677	56.46	903.33
2.1.7.2.	LEA 0.4 kV	km	0.40	1,124,214.88	40 an	28,105	508.12	1,216.96
1.1.7.3.	LES 0.6/1 kV	km	0.99	282,043.31	30 an	9,401	470.83	463.57
1.7.2.1.	Finde / FDGP / BMPT / B/MPM	buc	0.00	5,000.00	12 an	0	52.29	0.00
TOTAL GENERAL fara TVA					4,418,065.06	183.85		5,241.00

[illegible]

Intocmit:

ing. Liliana Lupescu

Verificat:

ing, Andreia Tutica

Serviciu de proiectare
Denumirea lucrării :
Beneficiar :

Ploiesti
Extindere retele electrice de distributie comuna Bucov, sat Bucov, strada Tinerețului, judetul Prahova
Primaria Bucov

VENITURI ANUALE

Venituri din vanzarea de energie

121,373 Lei/an

	anul 1	anul 2	anul 3	anul 4	anul 5	anul 6	anul 7	anul 8	anul 9	anul 10	anul 11	anul 12	anul 13	anul 14	anul 15	anul 16	anul 17	anul 18	anul 19	anul 20	anul 21	anul 22	anul 23	anul 24	anul 25	anul 26	anul 27	anul 28	anul 29	anul 30	anul 31	anul 32	anul 33	anul 34	anul 35	anul 36	anul 37	anul 38	anul 39	anul 40	
Numar de consumatori jt	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207
Numar de consumatori MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energie anuala consumata/consumator jt [MWh/client]	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
Energie anuala consumata/consumator MT [MWh/client]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tarif de distributie la joasa tensiune	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93	350.93
Tarif de distributie la medie tensiune	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83	114.83
Venit total din distributia energiei in zona noua [lei/an]	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373	121,373
Alte venituri conf. Metodologie																																									

Intocmit:

ing. Liliana Lupescu

Verificat: ing. Andreia Tutica

[Signature]

[Signature]