Location :	in t	he Cavern (near the	detecto	r)	Cables In the Counting house					
	Analog front-end (PS in the counting)	L0 front end included in the Analog (PS in the counting)	ECS	Regulators (PS in the counting)		in the bles	L1 front- end	PS for the L1 FE	ну	PS for the FE in cavern
Outer Tracker	Analog front-end	L0 front end					L1 front- end			
Power consumption of chip [W]	0.5	0.5						75% efficiency		75% efficiency
Number of chips per board	2	4 OTIS 1 GOL								
Power consumption of board [W]	1	3					100	2.7		19.4
Number of boards	3456	426					27	25%		25%
Total power consumption of boards [kW]	3.5	1.3	0.4	4.8		9.4	2.7	0.7	1.5	4.9
Cooled ?	yes	yes	yes	yes	no		yes	yes	yes	yes
Inefficiency %	15%	15%	5%	15%		100%	5%	5%	5%	5%
cavern (detector) / counting house part %					90%	10%				
heat dissipated to air [kW]	0.525	0.195	0.02	0.72	8.46	0.94	0.135	0.035	0.075	0.245
heat removed by the cooling system [kW]	2.975	1.105	0.38	4.08	0	0	2.565	0.665	1.425	4.655
Total power dissipated to air [kW]		9.92	2		1.43					
Total power to be cooled with water [kW]		8.54	1			9.31				
Total power consumption [kW]		0			29.2					

Not sure, to be confirmed
Big dissipation to the air !

needed in the counting house

needed in the cavern but supplied from the counting house

Total:29.2 kW0 kWTotal power needs:30 kW

What still is missing or has to be confirmed:

Other sub-system that need power....? Pumps, motors, etc...?

To dimension what TS-EL will have to provide to the sub-detectors in terms of electrical power, a 30% safety (or spare) margin should be added (in addition to what is still missing).