Location :	In the Cavern (near the detector)						Cables		In the Counting house				
	L0 front-end		ECS	L0 trigger			Lost in the LV Cables per Repeater board		L1 front-end	L0 trigger	PS for L1 FE and L0 trigger	HV	PS for the front-end in cavern
Pile up VETO	L0 front-end	Repeater boards, regulators included		Service box	Optical station	PS for the L0 service box			L1 front-end / TELL 1	Trigger			
Power consumption of chip [W]	1					75% effic					75% efficiency		75% efficiency
Number of chips per board	16												
Power consumption per board [W]	16	42				0.6	56.2		100		1		0.7
Number of boards	4	4				25%	4		4		25%		25%
Total power consumption [kW]	0.1	0.2	0.1	0.4	0.2	0.15	0.3		0.4	0.6	0.25	0.04	0.175
Cooled ?	yes	no	yes	no	no	yes	no		yes	yes	yes	yes	yes
Inefficiency %	5%	100%	5%	100%	100%	5%	100%		5%	5%	5%	5%	5%
cavern (detector) / counting house part %							90%	10%					
heat dissipated to air [kW]	0.005	0.2	0.005	0.4	0.2	0.0075	0.27	0.03	0.02	0.03	0.0125	0.002	0.00875
heat removed by the cooling system [kW]	0.095	0	0.095	0	0	0.1425	0	0	0.38	0.57	0.2375	0.038	0.16625
Total power dissipated to air [kW]	1.09								0.11				
Total power to be cooled with water [kW]	0.34								1.4				
Total electrical power consumption [kW]	1						0.3		1.465				

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:	**1.8 kW**	**1 kW**

Total power needs: **3.5 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).