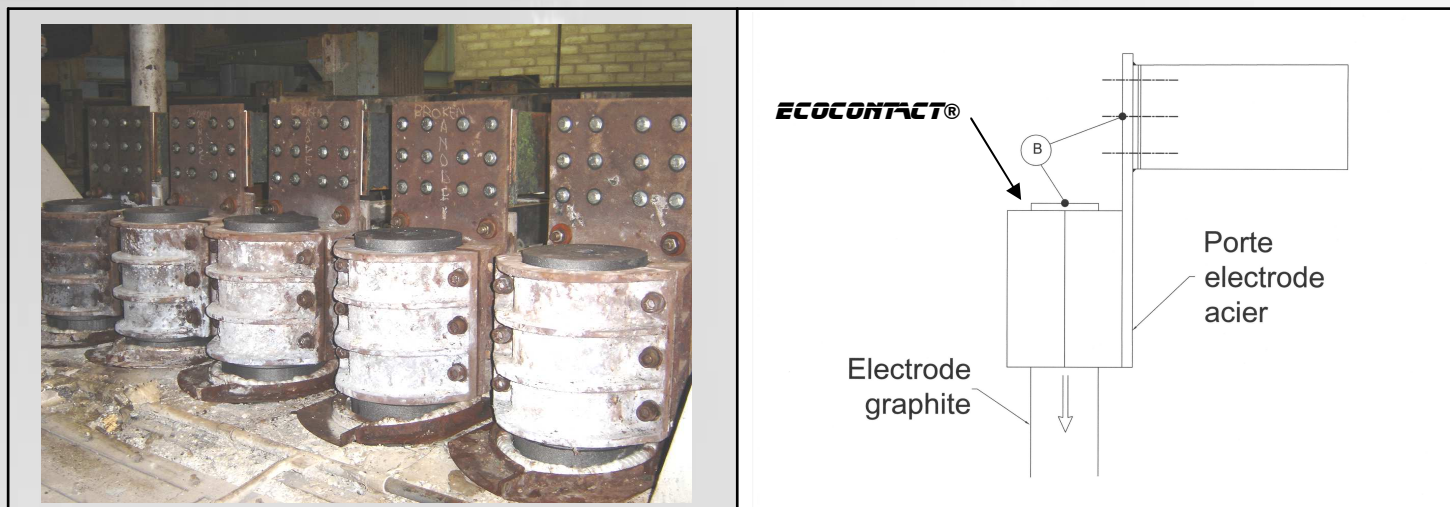


### Graphite / Steel connection

The electrolysis of lithium takes place around 450°C with Graphite anodes and steel anode clamps



#### Measure table:

Example for 1 graphite anode under  $\approx 4\,600\text{A}$

	$\Delta U$ Without <i>ECOCONTACT®</i>	$\Delta U$ With <i>ECOCONTACT®</i>	Saved power	
<i>B</i>	800 mV	100 mV	3,22 kw	87%
$\theta$	250 °C	65 °C		

#### Gain with *ECOCONTACT®*:

Saved power for 1 cell containing 5 anodes :  $\approx 16\text{Kw}$

Yearly energy gain :  $16\text{ kW} \times 8000\text{h} = \approx 128\,000\text{ kWh/year/cell}$

Estimated cost of kWh : 0,06€

Yearly economic gain:  $128\,000\text{ kWh} \times 0.06\text{€} = \approx 7500\text{€}$

*ECOCONTACT®* equipment cost:  $\sim 2000\text{€}$

*ECOCONTACT®* Return on investment: < 3 month

#### Advantages :

- Very high energy savings in the interface. Homogeneous share-out of power in all the anodes.