

Chrome mine in North West Province

In early 2014, a successful chrome mine was exceeding the kVA rating of its supply transformers, by constantly expanding and adding more electrical equipment, as the mine grew.

The mine applied for more power from Eskom, but the associated costs were exorbitant.

	1000kVA transformer	500 kVA transformer
kW	700	350
pf (before)	0,7	0,70
kVA (before)	1000	500
pf (after)	0,99	0,99
kVA (after)	707	353
Saving (kVA/month)	293	146
kVA saving (%)	29,3%	29,3%

By installing power factor correction equipment, the mine was able to **reduce the load on the supply transformers by 29%** which allowed them to expand even further **without having to increase their Eskom supply.**

The mine informed us that their **investment payback period had been calculated at 3.2 months**

