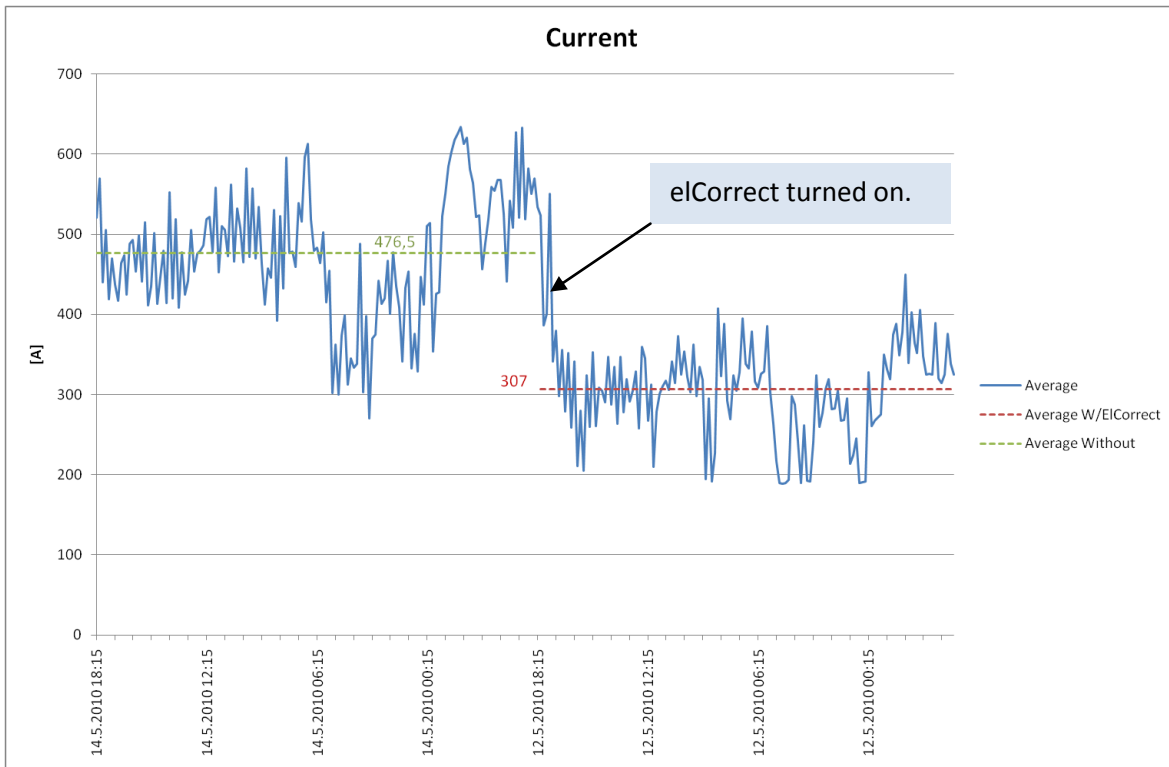


Effect of elCorrect on an Electric Grid

Overview

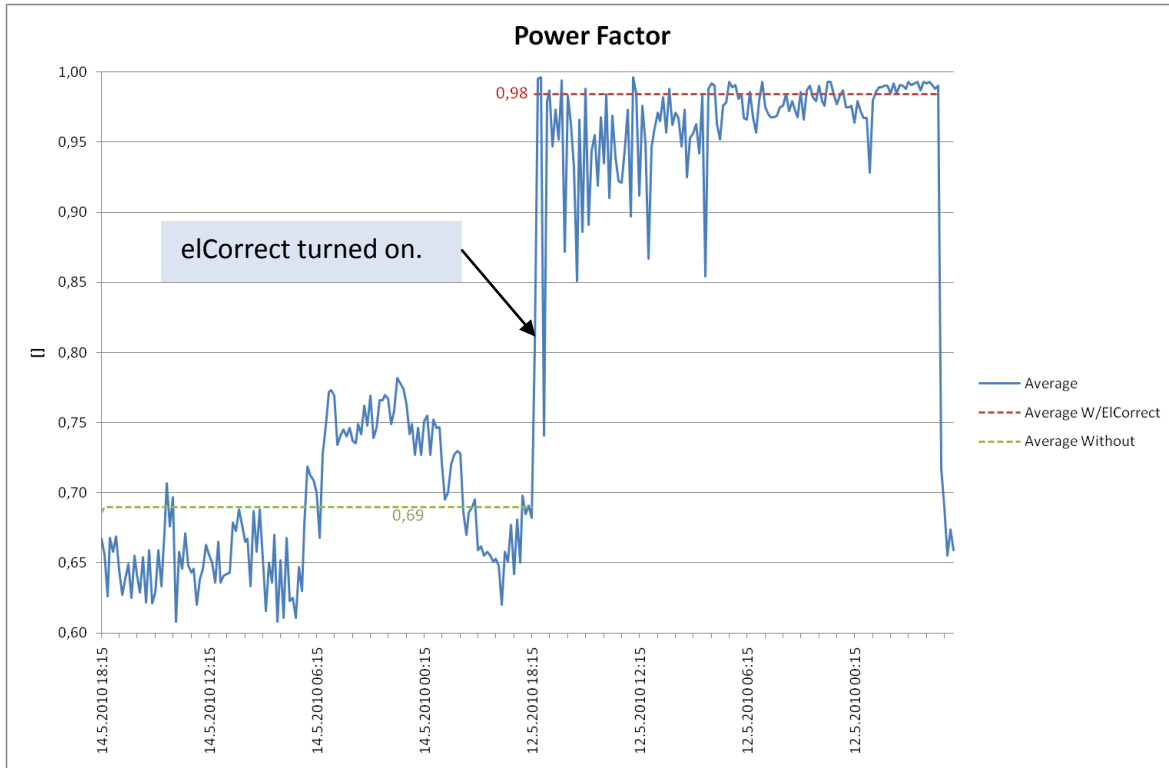
This document shows the visible effects that elCorrect has on the major parameters of an electric grid. The example is taken from an installation for a company in the fruit industry in Spain. These measurements were taken first with the unit turned off and then turned on.

Effective Current



Current load on transformer is reduced by 35%

Power Factor

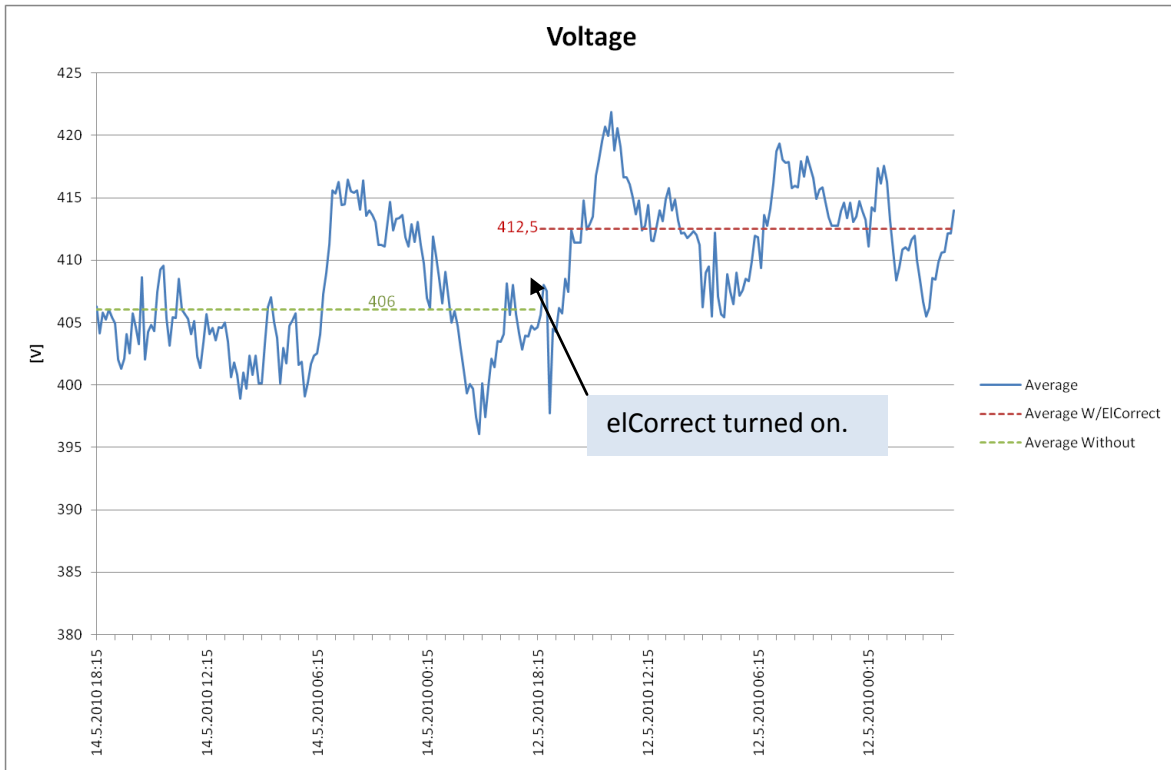


Power factor is raised by 30% to acceptable levels

Info Sheet



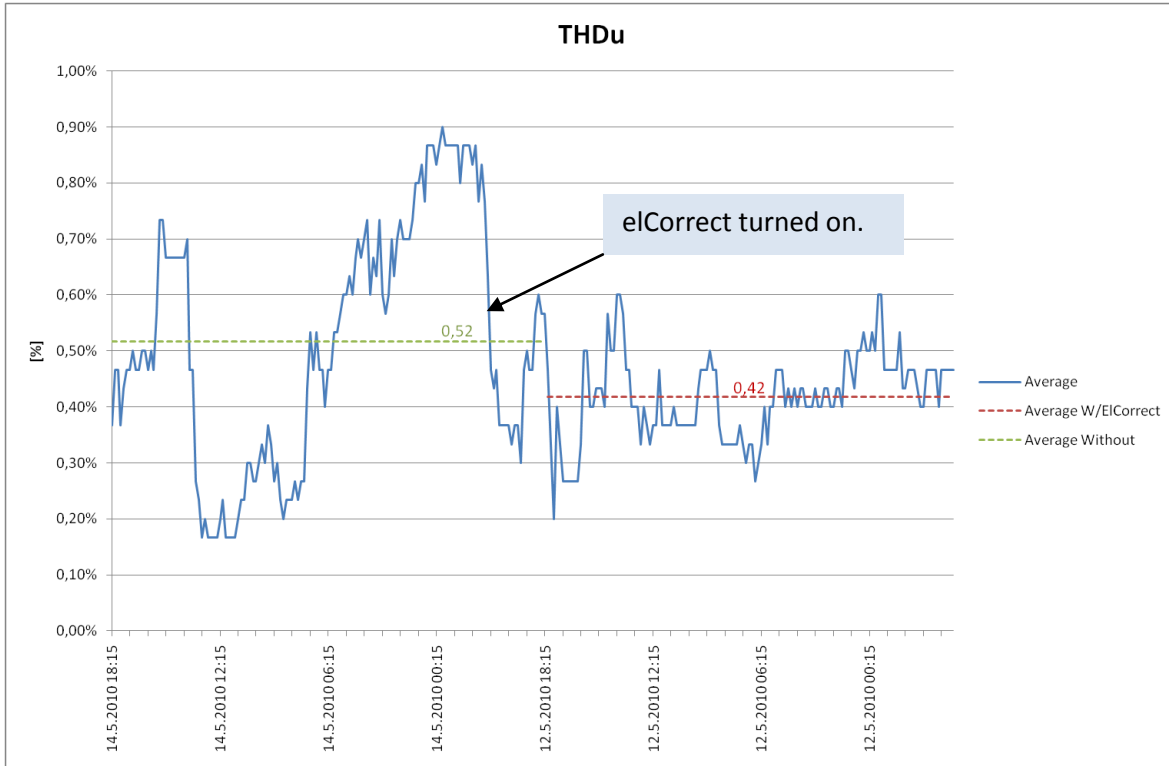
Effective Voltage



Effective voltage is raised and fluctuations reduced by almost 50%



Harmonics



Voltage harmonics are reduced by 19%

Statistical Information

Transformer 1	1000 kVA		
Data	Before	With El-Correct	Diff.
Active Power [KW]	~ 230 kW	~ 213 kW	-8%
Reactive Power [KVAr]	~ 275 kVAr	~ -35 kVAr	-113%
Apparent Power [KVA]	~ 330 kVA	~ 218 kVA	-34%
Power Factor	~ 0,69	~ 0,98	44%
THDu [%]	~ 0,52 %	~ 0,42 %	-19%
Total Current Load [A]	~ 476 A	~ 315 A	-34%
Load on Transformer	33%	22%	-34%

More Information

For more information about the information provided please contact sales@hbtinternational.com.