

## 10 Tips to Save Electricity and Water

Here are ten things you could consider as an initial action list to reduce energy consumption in your factory. They are listed roughly in order of cost/benefit (the most benefit to you at the least cost listed first).

	Benefits	Capital Cost
Review your production processes to ensure that energy isn't being wasted unnecessarily	Very often production processes have evolved over time without due heed having been paid to the associated energy costs. Very often a few simple changes may have dramatic effects to your energy bills.	Zero
Trace and eliminate all <a href="#">compressed air</a> leaks.	It takes a lot of electricity to compress air. Any leaks just waste that energy.	Zero (or very low in most cases).
Reduce the need for <a href="#">compressed air</a> tools as far as practical.	It takes about five times more electricity to compress air for a tool as it would take to power the same type of tool directly using electricity.	Zero
Install <a href="#">efficient shower nozzles</a> in the change house and all showers.	These simple, cheap devices save massive amounts of money. You get three simultaneous savings; 50% less water used, 30% less electricity heating water and lower sewage fees which are based on fresh water used.	Low
<a href="#">Have your power quality measured.</a>	Power quality problems often have significant costs associated with them. Sometimes those costs are obvious, in other cases they are hidden.	Low
Replace all old fashioned T8 and T12 fluorescent tubes <a href="#">with T5 adaptors</a> .	Modern electronically controlled T5 tubes use 20-30% less electricity. One can get adaptors so that they fit straight into the older T12 and T8 fittings.	Low-Medium
If your power factor is low <a href="#">install power quality correction equipment</a> ASAP.	Low power factor at maximum demand is like throwing money down the drain. You are paying much more on your monthly bills than you need to. This is easily rectified.	Medium
Consider variable speed drives for fans and other devices that could be run at slower speeds	Most electric motors run at fixed speeds. In some cases fans being driven by those motors need not run at maximum speed all the time. By slowing them down, the power consumed to drive them often falls exponentially.	Medium
Install T5 High Bay light fittings.	These units are cheaper than traditional high bay light fittings provide slightly more light and use up to 40% less electricity.	Medium
Use <a href="#">heat pumps</a> to heat water for change houses and any other water heating requirement where water needs to be heated up to 60C	Heat pumps use 70% less electricity to heat water up to 60C.	Medium