

Life Cycle Analysis (LCA)

ELLESS® WATER SAVING PRODUCTS

It takes approximately 5 kWh to produce our products suitable for an average household (kitchen, bathroom sink and shower). Maximum 10 kWh including transportation.

One household of two people saves 1000-2000 kWh per year using ELLESS® water saving system (on average 1500 kWh), 20-40 m³ of fresh water and on average approximately 400 kg carbon dioxide per year.

How the saving is distributed

Kitchen 41% (whereof 23 % constitutes hot water) – shower/bath 40 % (whereof 27 % constitutes hot water) – sink 19 % (whereof 11 % constitutes hot water).

The savings during the products' life cycle (normally 10-15 years or equivalent to the length of a normal mixer's life cycle) are estimated to 22.500 kWh + 600 m³ of fresh water and a reduced emission of carbon dioxide by 6 t.

Economic savings during the life cycle*

Average price of fresh water (2008)	SEK 17,50/m ³
“ “ “ energy (2008)	SEK 0,80/kWh
Fresh water 600 × 17,50	SEK 10.500/apartment
Energy 22.500 × 0,80	SEK 18.000/apartment
Total annual saving	SEK 28.500/apartment

*Fluctuations of energy and water prices have not been considered

Minimal environmental effects – quality products

All ELLESS® components are produced in Sweden, thereby of highest quality.

Our faucet aerators, with or without swivel, weigh about 15-52 g. This should be compared to replacing an entire mixer including its accessories that weighs hundreds of times more. ELLESS® faucet aerators – when assembled onto whichever non-leaking mixer – save more water and energy *in reality* than any other water saving products or methods.

Since our showers do not require that much water, we are able to produce thinner hoses (11 mm) instead of using the conventional measurement of 14-15 mm. This way, we have reduced the usage of materials for hoses by 35 %.

Most of our shower hoses are PVC-free. We also provide Anti-bacterial hoses, suitable for hospitals and other sterile environments/facilities.

Moreover, all our products are recyclable up to 98 %.