Swimming pools and changing behaviours

- The critical need for change - pool filtration
- Reducing the effect on the load of the national grid.
- The pool consumes 12% of the total power bill in the average home.
- A pool cover can reduce this to 6%
Why change is needed?

• SA has an energy crisis

• Pools are using .37% of SA’s national grid every day!

The figures

The average pool pump
Run for 6 hours a day

Multiply by 600 000 pools in SA

National grid installed capacity
Available capacity/peak demand
Pool pumps alone are using day

> .750 Kwh. pump
> 4.5kwh used per day on filtration
> 2 700 megawatts on filtration per day in SA
> 43 319 megawatts per hour
> 720 000 megawatts per day
> .37% of the national grid every day

Factor in pumps with higher specs, heat pumps, chlorinators: 1% of the national grid daily used by pools
How low can you go?

- Turn the filter off entirely during the week.

- Keep the filter on for up to 4 hours on Saturday and up to 4 hours on Sunday.

- Turn off the pump for the next week. For even lower filtration times/power usage, cover the pool.

- Work your way down to just one hour of filtration in total on the weekend. You will be pleasantly surprised!
Practical tips for energy-smart pools

- Cover the pool
- Move filtration times into off peak hours
- Turn off non essential features such as fountains or jets
- Scoop leaves manually to reduce the load on the pool pump and shorten filtration times
- Fit a newer more eco-friendly and power-efficient pool pump. Older pump bearings are so tight, the pump uses more amperage
Practical tips for energy-smart pools

• Don’t let the pool go green. This will require even more filtration in the long run.

• Manage your water temperature with natural sunlight through a thermal cover. Heat pumps start at 5kwh and increase to up to 15 depending on the specification and size.

• Check your pool filter timer settings regularly. Sometimes power outages affect timers and will need to be adjusted.
Other benefits of pool covers

- **Water savings**
  Evaporation reduced by 98%

- **Chemical savings**
  Chemical input reduced by up to 70%

- **Heat retention and warmer water**
  Harnesses the sun’s energy and retains heat generated during the day

- **Water hygiene**
  Prevents debris collecting pool

- **Financial savings**
  Noteworthy household savings are made on power, chemicals and water
Energy Saving Cover - EnergyGuard

Heating cover – Sol+Guard

Energy-saving Solid Safety Cover

Fully automatic cover - Starline Roldeck
A typical, uncovered outdoor pool

Some solar energy is transferred to the water but is quickly lost.

Solar rays cause evaporation

Chlorine naturally dissipates in sunlight

Unsightly rotting leaves & debris collect, affecting water hygiene, pH, and filter’s load

As water circulates, 90% of energy & heat is lost, water cooling occurs

Electrical heat pump
EnergyGuard™ Unique additive package and the innovation of the GeoBubble™ technology provides a long last, high performance material which can reduce running cost recovering the cost of the cover in under a year.
About PowerPlastics Pool Covers

• PowerPlastics Pool Covers is an incredibly innovative company which promotes a sustainable lifestyle choice, not just a pool cover.
• A range of high performance covers developed to directly address issues affecting domestic and commercial pool owners:
  • The need to lessen power consumption
  • The need to conserve water
  • The need to reduce chemical usage/greenhouse gas emissions
  • The need to minimise operational overheads and make financial savings

• A national and regional footprint through Gauteng and Western Cape sales teams and a wide network of approved Distributors.
• Case studies available on the power, water and chemical savings achieved with the right thermal cover.

www.powerplastics.co.za