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## Energy Saving Application – Swimming Pool Pump

Reduction of energy usage by fitting a Variable Speed Drive (VSD) to a swimming pool pump motor.

- Pump Motor Size = 17.5kW. Energy cost = £0.10 p/ unit
- Maximum energy consumption =  $17.5 \times £0.10/ \text{hr} = £1.75/ \text{hr}$
- $£1.75 \times 24 = £42 \text{ p/day}$

Reducing the drive speed by 10% from 50Hz to 45Hz has the following effect on energy consumption:

- $17.5\text{kW} - 10\% = 15.75\text{kW}$
- $15.75 \times £0.10/ \text{hr} = £1.57/ \text{hr}$
- $1.57 \times 24 = £37.80/ \text{day} = £4.20/ \text{day saving}$
- $£4.20 \times 365 = \underline{£1,533 \text{ saving per year}}$

