

## Appendix 8: Asset maintenance



### Solar-powered pump

Solar panels take energy from the sun and convert it to electricity to power the pump. Solar power produces high voltages but you don't need to be a specialist to safely carry out basic maintenance such as washing the panels. Any suspected problem with the electrics should be handled by an electrician.



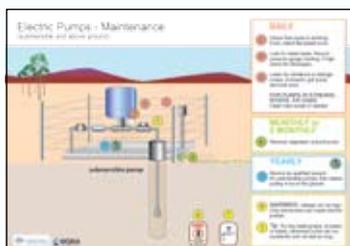
### Diesel generator

A generator running on diesel fuel creates electricity to power water pumps. The poster shows a small, portable, wind-cooled generator with a manual start. It could power a small pump. For more intense power needs, larger industrial generators are used. They are likely to use coolant (like a car engine) and have electric start buttons and batteries. Maintaining a generator and making sure there is enough fuel in stock helps prevent interruptions to the water supply.



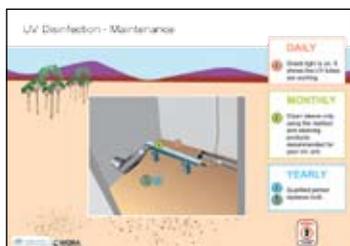
### Diesel-powered pump

The poster shows a diesel-powered mechanical pump. This pump does not have electrical parts but care should still be taken during maintenance to avoid hot parts or getting hands caught in the belt.



### Electric pump

The poster shows a submersible electric pump which would be found down a borehole or in a river. The poster also shows maintenance tasks for above-ground pressure pumps (used for pumping water or sewage along a distribution system). Most maintenance and servicing of electric pumps can only be performed by electricians. But checking that the pumps are functioning well and fixing leaks at hose connections are vital tasks for keeping the water supply working.



### UV disinfection

UV energy is produced by a lamp which looks like a florescent bulb. It is similar in appearance but can be harmful to eyes. The sleeve around the bulb protects your eyes. Never look directly at a lighted, uncovered UV lamp. For safety always wear a protective glove when handling sleeve or UV lamp.

Maintenance and servicing should only be performed by a qualified technician.



### Chlorination

Chlorine is a very strong bleach and can be automatically added to drinking water as liquid or tablets. For safety always wear protective clothing including glasses and a mask. Chlorine can be harmful if you inhale it or if it comes into contact with your skin or eyes. Maintenance and servicing should only be performed by a qualified technician.