



**POWER PUMPS
AND ENGINEERING**

SAVE TIME AND MONEY WITH PUMP ENERGY AUDITS

Pumps use more than 10% of the world's electricity and many of them don't work efficiently - particularly older pumps. A Pump Energy Audit will identify where your pumps or pumping systems are working inefficiently. By ensuring that your systems operate efficiently, you not only save money by reducing your energy consumption, you also help protect the environment by minimising carbon emissions.



PUMP ENERGY AUDITS FACT SHEET

WHAT IS A PUMP ENERGY AUDIT?

A Pump Energy Audit gathers information that highlights areas where pumps and pumping systems may not be operating at optimum efficiency, as well as highlighting areas for improvement.

WHY WOULD YOU HAVE A PUMP ENERGY AUDIT?

By undertaking a Pump Energy Audit, we will provide you with a report that recommends ways to improve pump efficiency and quotes for the remedial work, as well as calculating the payback period for any new equipment or repairs. Typically, the payback period is only a few months and the ongoing savings can be significant, so a Pump Energy Audit is a great way to find out how much you can save.

HOW DOES A PUMP ENERGY AUDIT WORK?

The first stage in a Pump Energy Audit is the data gathering. We will send a trained technician to set up some monitoring equipment on your premises. They may also need to look at plans and other information like historical water use. The technician will also ask questions about different pumps - such as, are they used all the time, or are they used only at particular times?

When the monitoring equipment has captured the data that we need, our technician will return to remove it.

The equipment may be in place from a few days to a few weeks, depending on the size and complexity of the system. Sometimes, our technician may need to move the equipment to capture data from different pumps.

Then, we analyse the data and use that to highlight areas of potential improvement, based on priority (high priority areas would be those that represent significant energy savings, at a lower cost and reduce CO² emissions). We provide you with a report that identifies all recommended actions for improvement, along with estimated costs and payback periods. For example, this may include replacing a pump or motor, repairing a pump, redesigning a hydraulic circuit, or installing a variable speed drive for greater efficiency.

When you receive the report, you may wish to act on some of the recommendations included. If this is the case, you can ask Power Pumps & Engineering to supply the required product and/or undertake the work.

THE PUMP ENERGY AUDIT MEASURES KEY PUMP PARAMETERS, INCLUDING:

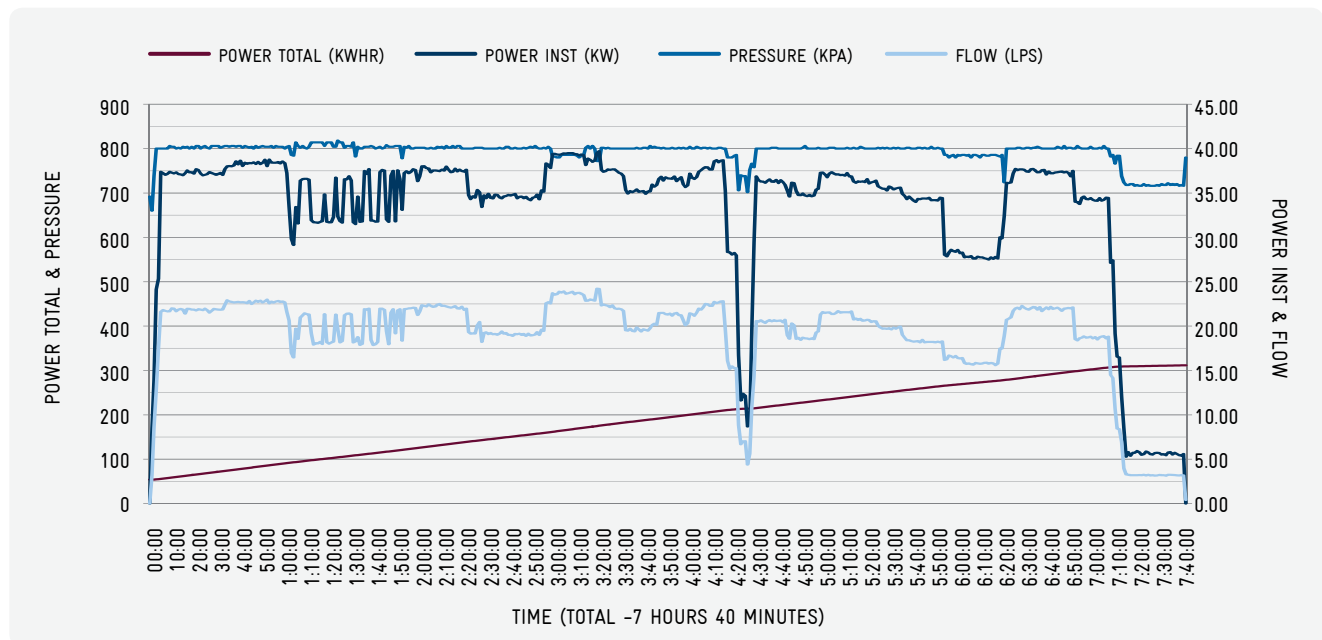
- Instantaneous and Total Flow
- System Pressure
- Instantaneous Power Consumption including Power Factor
- Total Consumed Power

THE AUDIT PROCESS



SAMPLE PUMP ENERGY AUDIT DATA

The data gathered in a Pump Energy Audit can assist in determining pump efficiency and recommendations are made based on this information to help consumers reduce their overall power consumption and carbon emissions.



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