MTS HPU Electrical Energy Audit

Assess the energy-efficiency of your hydraulic power unit

Benefits

- Understand current energy consumption
- Control energy expense
- Calculate ROI

The key to smart energy management of your hydraulic power unit (HPU) is to control energy expenses by reducing power consumption without compromising output performance. Energy waste occurs when hydraulic power units fail to convert the electrical power that they consume into the motion they are designed to provide.

There are several reasons why the energy efficiency of a hydraulic power unit can degrade over time. Everyday general system wear over time can contribute to operating inefficiencies, and an oversized system without flow management tools has no other option than to over-produce hydraulic power to ensure peak flow demands are met.

MTS offers two audit options to assess the energy-efficiency of your HPU. The first option, an Electrical Energy Audit, records electric power consumption and calculates the hydraulic efficiency of an HPU. Using data from HPU manufacturer specifications and system operating pressure, along with electric motor and hydraulic pump information, MTS can determine the efficiency of an individual HPU.

To complete the audit, an MTS Field Service Engineer connects a measurement device to the inside of the HPU control panel. The device records energy usage over a two-week period of normal use, after which time, the Field Service Engineer returns and removes the device. An engineer then analyzes the data and creates a detailed report and graph of the energy usage. With this accurate measurement and analysis of actual use, you can evaluate options to reduce energy consumption.

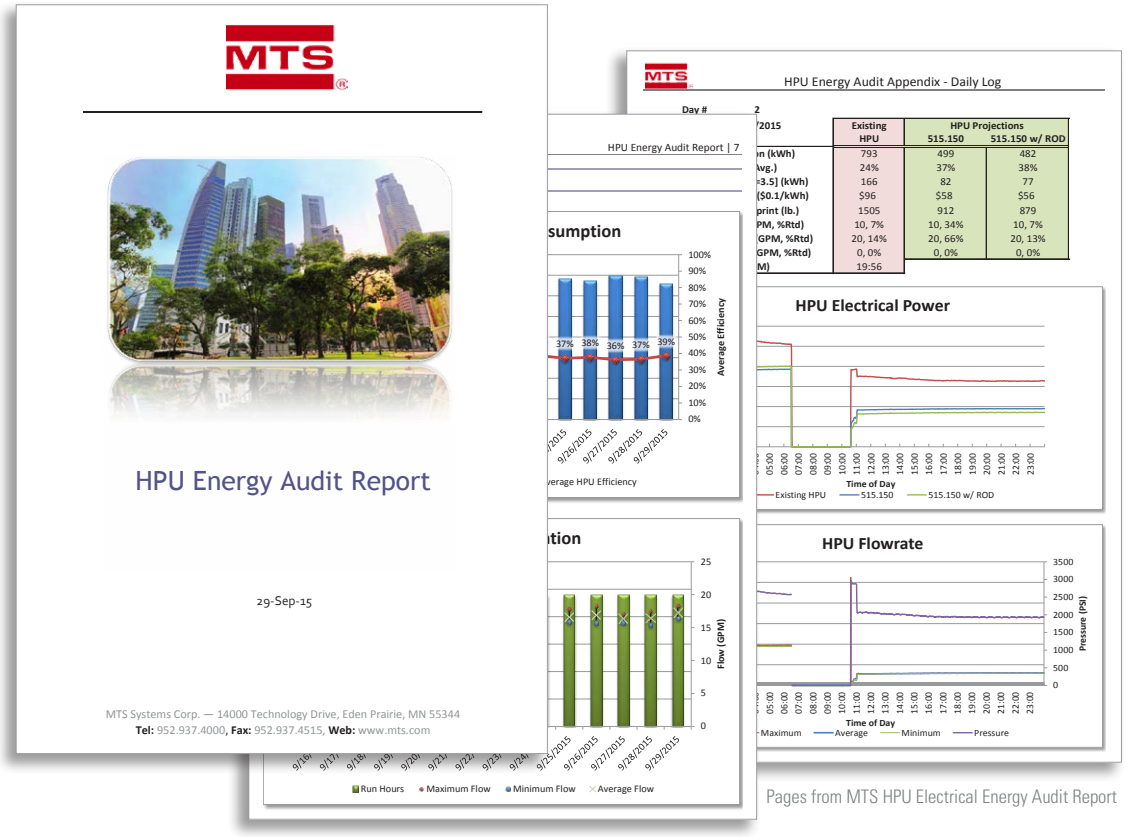
The second audit option includes all the items offered in the Electrical Energy Audit, plus additional measurement of the hydraulic fluid output flow for a more comprehensive view of energy efficiency.

Option 1 – HPU Electrical Energy Audit

Service visits	Two onsite visits by MTS Field Service Engineer to install and remove energy audit device
Detailed report	Four weeks after collecting the data, MTS will deliver a report that highlights the energy use of the HPU
Recommendations with ROI	MTS will provide the energy saving recommendations and the return on investment (ROI) estimates of an HPU replacement for your specific lab

Option 2 – HPU Flow Profiling

All HPU Electrical Energy Audit features	Includes all the items listed in Option 1 – HPU Electrical Energy Audit
Additional flow measurement	Hydraulic fluid flow meter temporarily installed to capture HPU output flow
Detailed report	Report and recommendations will include the HPU hydraulic output flow profile



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MTS Systems Corporation
14000 Technology Drive
Eden Prairie, MN 55344-2290 USA

Toll Free: 1.800.328.2255
Fax: 1.952.937.4515

E-mail: info@mts.com
www.mts.com

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