

# HIDDEN OPPORTUNITY FOR ENERGY SAVINGS

Is your pump system leaking money?

# DISCOVER TRUE SAVINGS. START WITH A PUMP AUDIT.

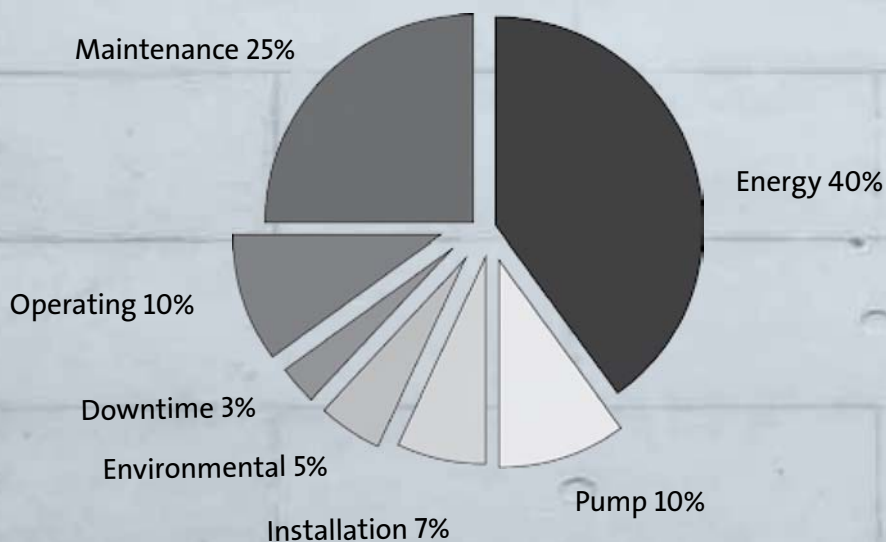
Many pump systems waste energy and money day after day. Grundfos can help you determine whether your system is one of them. A pump audit will examine the overall efficiency of the existing pump system and reveal how much you could save by optimizing that system.

## Focus on Life Cycle Costs

The Grundfos pump audit was born from a wish to promote energy savings and awareness of the real cost of owning and operating pumps. The initial purchase price of a pump system accounts for approximately 5% of its entire cost over its lifetime. Service and maintenance accounts for approximately 10%, leaving energy consumption to account for approximately 85%. When energy consumption accounts for 85% of the total cost, that's where you can achieve real savings.

## Is your system leaking money?

You may not realize the potential savings, or you may have forget the hard facts of Life Cycle Cost. Whichever the case, a pump audit is an easy way of getting hard evidence of how much you could save. You will see whether you are leaking money, and find out what you can do to stop the leak.



# THERE ARE TWO TYPES OF ENERGY AUDITS.

## **Energy Check**

An “Energy Check” provides an overview of your pumps energy consumption. The check is based on pump data that can be found on the pumps nameplate, such as flow, pressure and power. It is also based on known factors that impact energy consumption, such as the pumps age and number of operating hours. There is no direct measurement with an energy check. Grundfos will provide you with a recommended pump solution based on experience and historical data.

## **Pump Audit**

A Pump Audit is a full diagnosis of your existing pump system. It measures flow, pressure and power for a defined period of time as set by local authorities, or for a period of time that defines the full profile of water demand - typically one week. Analyzed data reveals the actual load profile of the building, calculates the current system’s efficiency, return on investment and carbon emission reduction. A full water bill analysis is also performed, verifying water consumption for the past two to five years and if available, pump engineering drawings are reviewed. Grundfos will provide you with a recommendation for a properly sized and more efficient system.



# SEE WHAT PUMP AUDITS ARE SAVING.

In many cases, more than half of the energy consumed by a pump system can be saved. Grundfos' experience with pump audits so far has proven that an energy savings of 30% to 90% can be achieved in any type of building. This is an overview of demonstrated results.



## **Condominium Tower, Toronto, ON**

Pre Audit HP: 60

Post Audit HP: 22.5

Pre Energy Use: 166,112 kWh

Post Energy Use: 35,006 kWh

Annual Energy Savings: 80%

Monetary Savings: \$14,670 annually

Incentive Amount: \$13,364



## **Sheraton Hotel Tower, Vancouver, BC**

Pre Audit HP: 60

Post Audit HP: 25

Pre Energy Use: 192,000 kWh

Post Energy Use: 58,000 kWh

Annual Energy Savings: 70%

Monetary Savings: \$9,000 annually

Incentive Amount: \$40,000



## **Apartment Complex, Mississauga, ON**

Pre Audit HP: 30

Post Audit HP: 15

Pre Energy Use: 166,112 kWh

Post Energy Use: 35,006 kWh

Annual Energy Savings: 84%

Monetary Savings: \$8,499 annually

Incentive Amount: \$7,725

### **Types of Buildings:**

Condominiums, apartment & office buildings, shopping malls, universities & colleges, hospitals and factories.



#### **Classico Condominium Tower, Vancouver, BC**

Pre Audit HP: 80

Post Audit HP: 15

Pre Energy Use: 135,342 kWh

Post Energy Use: 130,000 kWh

Annual Energy Savings: 97%

Monetary Savings: \$10,522 annually

Incentive Amount: \$28,568



#### **Office Building, Toronto, ON**

Pre Audit HP: 80

Post Audit HP: 30

Pre Energy Use: 167,740 kWh

Post Energy Use: 6,708 kWh

Annual Energy Savings: 99%

Monetary Savings: \$17,711 annually

Incentive Amount: \$16,542



#### **General Hospital, GTA, ON**

Pre Audit HP: 65

Post Audit HP: 22.5

Pre Energy Use: 355,260 kWh

Post Energy Use: 29,090 kWh

Annual Energy Savings: 92%

Monetary Savings: \$35,879 annually

Incentive Amount: \$24,431

### **Rebates**

Some local power authorities are offering rebates towards project costs as incentive for taking steps towards reducing energy consumption. Please be aware that in order to qualify for the incentive, a pump audit is required. Rebate amounts can vary from province to province. Be sure to consult your local power authority.

# TAKE STEPS TOWARDS REDUCING ENERGY CONSUMPTION.

This is an overview of the pump audit process – from the moment contact is made, until the final report is presented.

## STEP 1

Contact a **Grundfos salesperson** to inquire about the pump audit program.

## STEP 2

A **Grundfos salesperson** will perform an energy check, which is an onsite visual inspection of the existing pump system.

## STEP 3

A **certified Grundfos energy auditor** will perform a full pump audit on the qualified system.

## STEP 4

The **Grundfos engineer** analyzes the data and produces a report.

## STEP 5

The **Grundfos salesperson** presents you with a report recommending optimal improvements to potentially be carried out.



# BACKFLOW PREVENTION.

## Have you installed a backflow prevention device yet?

In some provinces it is mandated by Health Canada that a backflow preventer be installed, whereas in other provinces it is recommended. Please be aware that city water pressure will drop by 10-15 psi after its installation. This means that your existing pump system may not be able to meet your building's pressure demand, indicating that it may be time to replace the pump system.



# GRUNDFOS ENERGY SAVING PRODUCTS FOR YOUR BUILDING.



ALPHA



MAGNA3



Hydro MPC BoosterpaQ



TPE



Hydro Multi-E



Hydrosolo-E

## Grundfos Service & Solutions

When you choose Grundfos Service & Solutions for your pumps, you choose a partner that sees service in a much broader perspective than just repairs and maintenance. With Grundfos Service & Solutions, you gain a service partner who creates value for your business, and who works for you and your pumps in a professional and proactive manner.

Our criteria for success are to

- > select the right pump in cooperation with you
- > provide a comprehensive service program for planned and unplanned situations
- > keep service time to a minimum
- > prevent unexpected service and maintenance costs

We drive your costs down by providing technical advice, customer training, customised service solutions, reliable logistics and highly efficient pumps.

Visit [www.grundfos.com/service](http://www.grundfos.com/service) to see more

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