Did you know?

Did you know that IEEE estimates the average lifetime of transformers to be 30 years.

Transformers have losses even during no load conditions and HPS transformers can help with reducing these losses.

What you’ll gain

When you replace your less efficient transformer with a HPS Sentinel® Series distribution transformer, you’ll gain:

- Improved profitability
- DOE 2016/NRCan 2019 compliant
- Energy savings
- Improved reliability
- Total energy savings including reduction in energy, demand, & HVAC costs
- Opportunity to estimate environmental benefit

HPS Transformer Savings Analyzer

Calculate the benefits of using a HPS energy efficient transformer with the HPS Transformer Savings Analyzer online tool. Simply enter the application details and the analyzer will determine the:

- kWh reduction
- Demand reduction
- 5 & 25 year energy cost savings
- Simple payback
- Total energy savings including reduction in energy, demand, & HVAC costs
- Opportunity to estimate environmental benefit

HPS Transformer Savings Analyzer Tool
HPS Transformer Savings Analyzer

Input Data:

Enter the details of each transformer required for your project or you can use one of the preset project profiles.

Additional details such as cost per kWh, A/C system performance and monthly demand rate can also be considered if desired.

Results:

Based on the input data entered, the results screen will estimate:

- Estimate of the typical number of operating years remaining on existing transformers
- kWh reduction
- Demand reduction
- 5 & 25 year total energy cost savings
- Simple payback
- Total project costs
- Graphical analysis

### Transformer Information

HPS Transformer Savings Analyzer

Enter the details of each transformer required for your project. More than one transformer can be entered by clicking the "Add New Item" button.

<table>
<thead>
<tr>
<th>Transformer</th>
<th>Spec</th>
<th>HP</th>
<th>KW</th>
<th>KVA</th>
<th>KVAR</th>
<th>KVARH</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformer 1</td>
<td>225</td>
<td>150</td>
<td>225</td>
<td>150</td>
<td>225</td>
<td>150</td>
<td>90</td>
</tr>
</tbody>
</table>

**Additional Details**

- Cost per kWh
- A/C system performance
- Monthly demand rate

Based on the input data entered, the results screen will estimate:

- Estimate of the typical number of operating years remaining on existing transformers
- kWh reduction
- Demand reduction
- 5 & 25 year total energy cost savings
- Simple payback
- Total project costs
- Graphical analysis

### Transformer Savings Summary

- **Estimated Remaining Operating Years:**
  - Transformer 1: 25
  - Transformer 2: 30

- **KWh Reduction:**
  - Transformer 1: 12,000 kWh
  - Transformer 2: 15,000 kWh

- **Demand Reduction:**
  - Transformer 1: 100 kW
  - Transformer 2: 150 kW

- **5 & 25 Year Total Energy Cost Savings:**
  - Transformer 1: $25,000
  - Transformer 2: $37,500

- **Simple Payback:**
  - Transformer 1: 5 years
  - Transformer 2: 6.25 years

- **Total Project Costs:**
  - Transformer 1: $50,000
  - Transformer 2: $75,000

Graph: Machine Line A, 225kVA, Qty 1

- **Initial Energy Cost Savings:** 15,000 kWh
- **3 Year Energy Cost Savings:** 45,000 kWh
- **Total Energy Cost Savings:** 60,000 kWh
- **Total Project Cost:** $75,000