

# Energy Efficiency & Savings Calculator



## Power Up Your Savings

Are you still using older and less efficient transformers? It's time to make the switch to NRCan 2019 compliant energy efficient transformers. Upgrading offers numerous benefits that can transform your energy management, increase your operational efficiency and provide important cost savings.

Delta energy efficient transformers are engineered to minimize energy loss, ensuring you get the most out of every watt. This translates to lower energy bills and a reduced carbon footprint, making your operations more sustainable and cost-effective.



## What is the Average Lifespan of Dry-Type Transformers?

According to IEEE, the estimated lifespan is 20-30 years. Proper care and regular maintenance can extend this, however the risk of failures and inefficiencies significantly increases over time. Modern loads having rich harmonics content will also contribute to shorten the lifetime of transformers, and also increase losses and your energy cost.

## Why Upgrade to a NRCan 2019 Compliant Transformer?



**Improved Efficiency:** Minimize energy loss ensuring you get the most out of every watt. This means lower energy bills and a smaller carbon footprint.



**Cost Savings:** By reducing energy waste, Delta transformers can reduce operational costs. Older transformers consume more energy and require more maintenance.



**Reliability and Performance:** Our transformers are built to last, providing increased consistent and reliable performance.



**Environmental Impact:** Efficient transformers help reduce greenhouse gas emissions, contributing to a cleaner, greener planet.



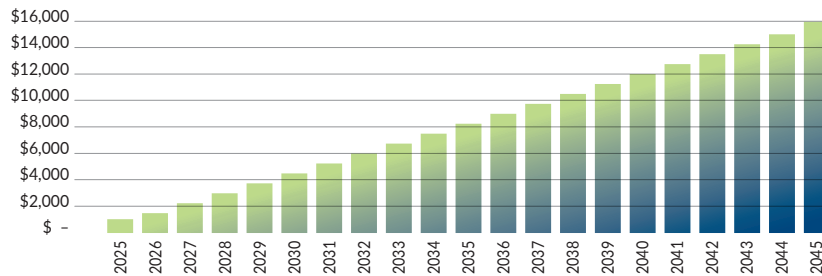
**Compliance:** Natural Resources Canada (NRCan) introduced higher efficiency levels for low and medium voltage dry-type transformers installed in Canada after April 30, 2019.

## Typical Annual Transformer Operating Costs

| 75kVA Copper 600-208/120V  | LOSSES         |                  |              | EFFICIENCY  | OPERATING COSTS |                |
|----------------------------|----------------|------------------|--------------|-------------|-----------------|----------------|
|                            | No Load Losses | Full Load Losses | Total Losses | At 75% Load | At 75% Load     |                |
|                            | Watts          | Watts            | Watts        | %           | Losses kW       | Annual Cost \$ |
| Built before 2012          | 461            | 2912             | 3373         | 96.40%      | 2.10            | \$1,287.11*    |
| Built between 2012 to 2018 | 212            | 2600             | 2812         | 97.11%      | 1.67            | \$1,026.80*    |
| Built since 2019           | 178            | 1350             | 1528         | 98.36%      | 0.94            | \$574.80*      |

\* Annual costs: \$0.07 \*kWH \* 24 hours \*365 days

### Savings

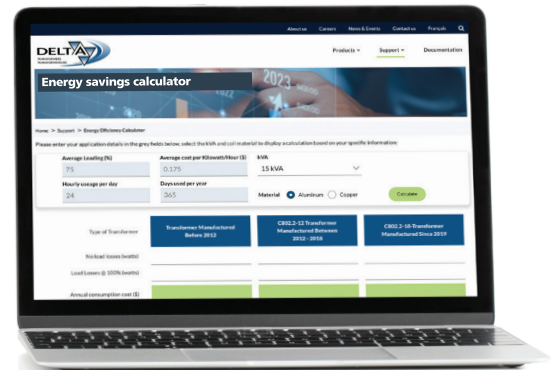


## Calculate Your Potential Savings

### Delta Online Transformer Energy Efficiency & Savings Calculator

Our online calculator tool lets you easily determine how much you can save by upgrading your transformer and will provide you the following data:

- No load losses
- Load losses
- Annual consumption cost
- Annual savings
- Savings over 30 years



The online tool is for LV distribution transformers, from 15 to 300 kVA, 600-208/120, copper and aluminum.

<https://www.delta.xfo.com/en/support/energy-efficiency-calculator>

Please consult our inside sales or your local representative for price inquiry & support. We can also assist you with larger transformer kVA, and MV power transformer conversions.

