



Capacity of industrial and commercial energy storage transformers

How much power does a transformer have?

NREL estimates most assets (~80% of number of assets) are between 10 and 50 kVA, whereas most of the capacity (~76% of installed capacity) is between 50 and 5,000 kVA. From estimates, the majority of the number of Figure 1. Age distribution of in-service transformers

Will distribution transformer capacity increase in 2021?

Our preliminary estimates for the overall capacity of distribution transformers that will be needed to serve economywide demand (i.e., residential, commercial, industrial, and transportation) indicate an expected 160%-260% increase compared to 2021 levels due to electrification (driven in part by the Inflation Reduction Act).

Who owns a transformer?

Some transformer capacity is privately owned by large commercial and industrial customers (approximately 20% of the total number of transformers, according to historical estimates) and is used for on-site electrical distribution.

What is the average load of a distribution transformer?

Assessing the loading of the stock remains challenging and is a focus of future work, with one member organization representing rural electric cooperatives reporting average loading of 80% for distribution transformers and other utilities reporting the mode of their peak loading for distribution transformers of between 45% and 55% .

How many transformers are in service?

NREL estimates the number of in-service units as approximately 60-80 million transformers, with between 2.5 and 3.5 teravolt-amperes (TVA) of combined capacity . Table 1 shows the distribution of transformer types (i.e., three-phase and single-phase, pad- and pole-mount) and sizes .

How old is a distribution transformer?

Age distribution of in-service transformers NREL estimates 60-80 million distribution transformers, with between 2.5 and 3.5 TVA of capacity, and that ~55% of in-service units are more than 33 years old and approaching end of life. transformer assets are pole-mount (~76%), whereas pad-mount transformers account for the majority of capacity ~65% .



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