

Safe distance between energy storage power station and box transformer





Overview

Is a minimum distance between a transformer and a substation mandatory?

Surprisingly, there are no prescriptive mandatory national statutes requiring minimum distances between transformers and substations. On the one hand, the authors share the opinion that compliance with mandatory codes and standards is a must.

Why is there no safety distance for neighborhood power lines?

The issue is complicated by the fact that there can be stray electricity flowing in the metal water service pipes of the neighborhood, increasing the magnetic fields from both the power lines and from the buried pipes! Thus, there is no reliable safety distance for neighborhood power lines.

Do MV transformers have a minimum spatial distance between substations?

Fire is always a concern with MV transformers and industry guidelines exist to provide minimum recommended spatial distances between liquid type transformers and substations. Unfortunately, the recommendations in the literature mentioned in this paper have differences.

How do you know if a power line is safe?

It's even more difficult to predict a safe distance from neighborhood power distribution lines — the type typically found on wooden poles. For example, homes with a nearby transformer will sometimes have higher EMFs because the transformer is a hub and the power lines carry more electricity for a group of homes.



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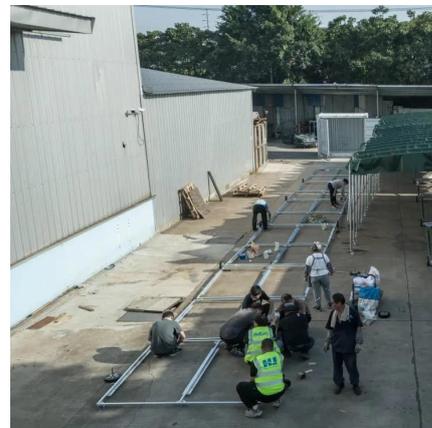
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