

NKOSITHANDILEB SOLAR

Circuit breaker in substation in Ukraine



Overview

What happened to Ukraine's energy infrastructure?

Link Copied! Several regions of Ukraine have endured a night of Russian drone and missile attacks targeting energy infrastructure that left more than a million households without power, according to the interior ministry.

How did the strikes affect Ukraine's energy sector?

Interior minister Ihor Klymenko said the strikes had delivered “painful blows to Ukraine’s energy sector,” with the Odesa and Mykolaiv regions particularly impacted.

What does a circuit breaker do in a substation?

Circuit breakers perform two fundamental roles in substations: (1) interrupt high fault currents safely to protect equipment and limit system disturbance, and (2) provide a means of making and routing power during normal operation (switching, sectionalizing).

How many substations have been damaged in Odesa?

Ukraine’s largest power company DTEK said 20 electrical substations had been damaged in the Odesa region. Video supplied by DTEK showed personnel beginning to clear debris at the site of one of the power substations that had been hit.

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One recent example is Kyiv, where a damaged connection at a high-voltage substation was restored, causing a cascade of technical accidents at smaller substations.

Tonight, December 12, Russia attacked a DTEK substation in the Odesa region with drones. Russia also attacked another energy company's facility.

Ukraine, Odesa: Overnight attacks damaged a DTEK substation and another energy facility in the Odesa region, leaving large parts of the area without electricity. According to ...

Several regions of Ukraine have endured a night of Russian drone and missile attacks

targeting energy infrastructure, with the interior ministry reporting more than a million ...

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Kyiv, 12 December 2025 - The Russian Federation's renewed campaign targeting critical energy infrastructure is putting civilians in Ukraine at serious risk as winter begins, the ...

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The learning objective of this lab is to demonstrate another possible consequence of an attack like the substation circuit breaker takeover attack in Ukraine that is beyond the black out itself.

The attack on the Pivnichna transmission facility shut down the remote terminal units that control circuit breakers. Oleksii Yasynskyi, head of research for Information Systems ...

Circuit breakers are essential components in a substation, performing critical functions such as protecting against overcurrents, isolating faulty sections, controlling ...

Substation Components--Part 3: Circuit Breakers This article explores the crucial role of circuit breakers in substations, covering their fundamental functions, interruption ...

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