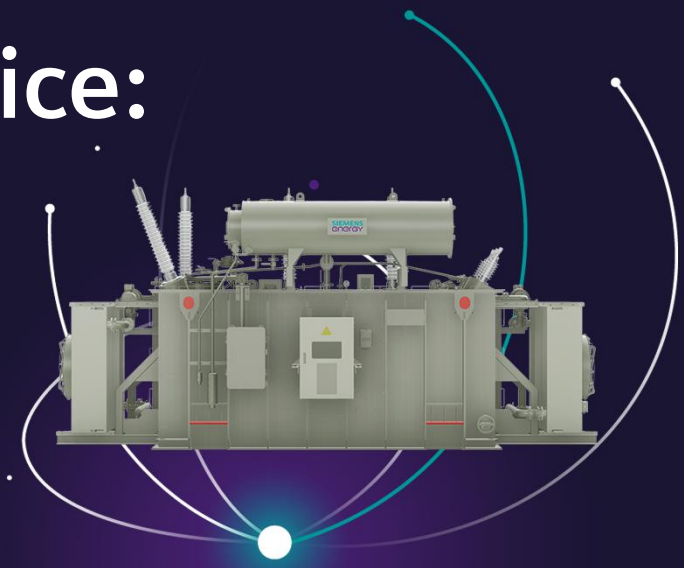
Asset as a Service: Transformer.

The ultra-compact transformer boosting resilience for renewable power plants



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The challenge

When the grid is on the line

Renewable energy is the future, but ensuring reliability in high-voltage substations can be a daunting task. Operators face critical challenges that threaten stability and uptime, including unexpected equipment failures, delays in transformer deliveries, and the need for rapid responses to emergencies. Without a reliable solution, these disruptions can lead to costly production losses and jeopardize grid resilience.

Revolutionizing reliability and efficiency in renewable energy operations.

Our solution

Meet our Asset as a Service transformer, your energy backup hero

Introducing the Asset as a Service transformer – the Siemens Energy cutting-edge, ultra-compact solution for the most pressing challenges in renewable power plant operations. Built for speed and reliability, the mobile transformer combines unmatched flexibility with robust performance. Its space-saving design allows for quick transportation and hassle-free installation, while its compatibility with medium voltage (MV) levels ranging from 20 kV to 30 kV ensures versatility across various applications. Whether it's stepping in as an emergency replacement, serving as a temporary bridge during delays, or providing rapid deployment in critical situations, our ultra-compact transformer is always ready to safeguard grid stability and keep energy flowing. From blocking the DC load to mitigating its effects on transformer performance.

Benefits

Power when and where you need it most

The Asset as a Service transformer is more than just a piece of equipment—it's a lifeline for grid resilience, designed to step in during emergencies and keep the power flowing when it matters most. Currently tailored for the Italian market, this transformer is engineered to address the unique challenges faced by renewable power plant operators in Italy. With its versatile application between wind and solar projects it is compatible with 90% of the country's grid infrastructure, making it a practical and effective solution for the vast majority of operators.

When unexpected transformer failures occur, this Asset as a Service transformer can be rapidly deployed to restore functionality, minimizing downtime and maintaining grid stability. Its compact size and lightweight structure simplify transportation and on-site assembly, ensuring a swift response in critical situations. For operators facing delays in the delivery of permanent transformers, this transformer serves as a reliable interim solution, bridging the gap and ensuring continuity in energy production.

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While its current focus is on the Italian market, the transformer's adaptable design holds the potential to meet the needs of other European countries as well.

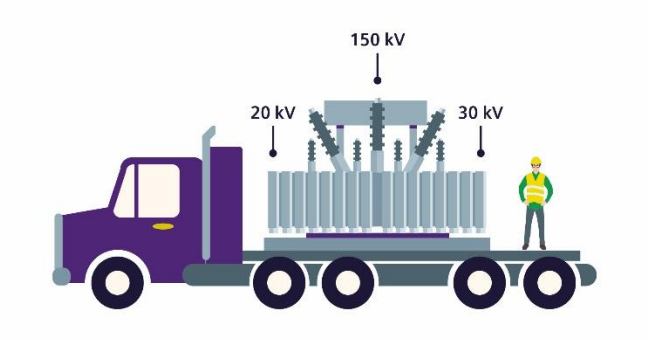
Siemens Energy is prepared to customize solutions tailored to specific grid requirements, extending the benefits of the ultra-compact transformer to renewable energy operators across Europe. This flexibility underscores the transformer's role as a future-ready, versatile asset, capable of meeting evolving energy demands on a wider scale.

By prioritizing rapid deployment, compatibility, and adaptability, the Asset as a Service transformer empowers renewable energy operators to overcome challenges, maintain resilience, and deliver on the promise of sustainable energy—both in Italy and beyond.

Collaboration in Action

Built by innovators, backed by insight

Our ultra-compact transformer is a special creation effort between Siemens Energy and renewable energy operators. This collaborative approach ensured that the transformer was not only technically advanced but also deeply aligned with market needs. Through extensive market research and direct customer feedback, Siemens Energy identified the critical need for a solution that prioritizes rapid deployment, resilience, and flexibility. The result is the Asset as a Service transformer—a solution designed by experts, guided by industry insights, and built to exceed expectations.



Asset as a Service Transformer:
Mobile emergency unit for grid stability

Main benefits

- **Compact design**

  The transformer boasts an ultra-compact design, minimizing space requirements. This makes transportation and installation more straightforward and efficient, ensuring deployment can happen seamlessly even in challenging locations.

- **Streamlined permitting**

  Its optimized weight and dimensions significantly simplify the transit authorization process. By reducing logistical complexities, the transformer accelerates permitting and minimizes potential delays, enabling faster delivery to the site.

- **Effortless assembly**

  Engineered for efficiency, this ultra compact transformer can be assembled quickly and easily on-site. This user-friendly approach reduces downtime and ensures a smooth integration into operations, saving both time and resources.

- **Unmatched versatility**

  The Asset as a Service transformer is designed to operate across multiple medium voltage (MV) levels, ranging from 20kV to 30kV. This flexibility allows it to adapt to a wide variety of applications, making it a reliable choice for diverse operational needs.

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