

# Keeping network assets up and running

Asset Services



Answers for energy.

**SIEMENS**

# Making the most of power networks

Utmost reliability and availability are essential for network operators, utilities, and industry customers alike. Any unscheduled outage means direct financial losses and enormous follow-up costs. Moreover, any brownout or blackout is sure to tarnish the reputation of the energy supplier. It takes highly customized product-related services for transmission and distribution networks to ensure the high degree of reliability, power quality, and efficiency that is a prerequisite for business success nowadays. And, of course, it takes a partner capable of delivering such services anytime, anywhere.

A highly available supply network infrastructure of utmost reliability is one of the most important foundations of success – for the energy business as well as for many branches of industry. After all, energy suppliers and energy customers alike are inevitably dependent on well-working networks. However, the demand for electrical energy is continuously rising, while network capacities are inherently limited, and it takes time and money to install system expansions. At the same time, quite a few components of many networks are getting closer to the end of their expected service life, involving an increased risk of age-related failures.

On the business side, the general framework has also massively changed during the last decade. Due to the liberalization of energy markets in many countries, power supply may not be the core business of the asset owner, and the size of the network may not even justify own personnel. Nevertheless, the

network needs to be operated and taken care of, investment security needs to be improved, and life cycle costs need to be reduced without any negative impact on personal and environmental safety.

On the whole, these factors make it increasingly difficult for network owners, utilities, and branches of industry alike to keep up the high degree of availability and power quality required. That's why comprehensive diagnostics and monitoring, preventive maintenance and thorough inspection, modernizations and system upgrades, and not least highly available on-call services for spares and repairs are more important than ever before in order to avoid emergencies.

Even better when such service is provided by Siemens, the world leader in solutions for power transmission, distribution, and industrial energy supply. The extensive range of services Asset Services supply is available all over the world and always rendered by locally based Siemens experts.



Highest power network performance with cost-effective services enables you to focus on your core business.



Reliable energy supply and optimized capital utilisation due to innovative condition monitoring solutions and tailored service contracts and service projects.



Professional support from a solid partner throughout the entire life cycle for your power transmission and distribution assets.

# Adding value to your business

Siemens Asset Services provide solutions that keep you and your infrastructure assets on the cutting edge – throughout the entire life cycle of all assets.

Siemens Asset Services help you make the most of all assets, integrate the benefits of cutting-edge energy technology into your network, and improve the business potential of your assets through enhanced reliability. As a trendsetter in fields like retrofitting and condition monitoring, but also in maintenance and repairs, Siemens Asset Services supplies products, solutions, and services today that have the potential to solve even future energy challenges. And Siemens' experience in the entire field of energy is a constant you can always rely on.

## Siemens Asset Services let you benefit from

- The expert emergency services of a dedicated 24/7 Customer Support Center:  
Phone: +49 180 524 70 00  
Fax: +49 180 524 24 71  
(Charges depending on provider)  
E-mail: [support.energy@siemens.com](mailto:support.energy@siemens.com)
- Maintenance, spares and repairs, and modernization, either as a single service or within a frame contract for current as well as phased-out products
- Asset lifetime extension, reduced life cycle costs, increased security of investment, and augmented business potential through higher reliability
- Higher degree of operational, personal, and environmental safety
- More than 40 years of comprehensive experience in networks of every size and type
- Familiarity with local standards and requirements worldwide, thanks to global presence
- A holistic, integrated perspective on energy systems, taking into account all their elements and requirements

# Benefit

## from pinpoint asset solutions

### **On-call services for spares and repairs**

The key aim of all Siemens Asset Services is to ensure the faultless operation of all assets and to avoid emergency repairs. A 24/7 customer support center ensures that the Siemens on-call service will be on-site on shortest notice in the unlikely case of a fault. Siemens Asset Services keep you on the safe side with immediately available spares, components, and kits for assets from current production and for phased-out series.

### **Maintenance, overhauls, and modernization**

Siemens Asset Services keep network assets, such as switchgear, transformers, and secondary substation equipment, optimally maintained at all times through regular inspections and revisions.

Retrofitting and upgrading services let asset owners benefit from the latest technical improvements, and keep all network components up to speed in a highly cost-effective manner.

### **Diagnostics, monitoring, and testing**

Faults are a more or less natural phenomenon in any system that can never be precluded entirely. However, they need to be dealt with in an expert manner to prevent them from escalating. Siemens Asset Services provide the basis for targeted action through system diagnoses, profound assessment, and condition monitoring of critical assets. The often highly individual failure processes can thus be identified and appropriate mitigating measures can be developed.



# Performance up, costs down

## Maintenance contracts

Substation maintenance contracts make the operational risk for the system operator a clearly calculable factor while ensuring the best possible service.

## Modernization and extension

Siemens Asset Services offer a variety of service solutions that extend the lifespan of substations – or even the size and capacity of a substation. This is especially suitable for assets that have reached the end of their service life, substations installed in cities where they cannot be easily replaced, or parts of power plants with a life-extension plan.

## Asset management support

The optimization of CAPEX and OPEX plays a major role in streamlining system operation, and Siemens Asset Services provide the expertise required and a comprehensive range of services to ensure a reliable, cost-efficient network and its efficient management: assessments, integrated substation condition monitoring, reliability-centered asset management, and management business reviews.

## Advisory services

Siemens Asset Services supply all the expert know-how and methodologies required for the operation of distribution networks at the highest possible degree of reliability and efficiency. Key features of such services include consulting, for example, for tariffs, rate cases, norms and regulations, and business models. Furthermore, they include audits and technical due diligences.

## Operation and management services

In cases when network operation is not the asset owner's core business, or a network is too small to justify the employment of own staff, Siemens Asset Services can assume the operation and maintenance of the assets on a contractual basis, in which the asset owner defines the degree of security of supply and the response time desired in case of a fault.



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The required technical options should therefore  
be specified in the contract.