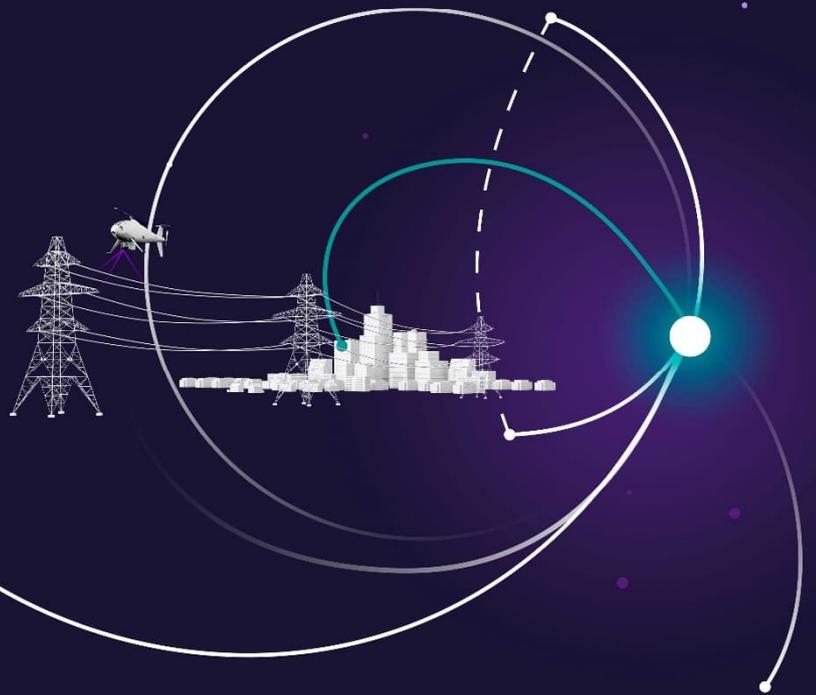


# Smart Spares Consulting

for High-Voltage Switchgears

Spare Parts Consulting

[siemens-energy.com](https://www.siemens-energy.com)



## Introduction

Operational availability of switchgears is key to a reliable supply of electrical energy. The revenue streams of our customers are highly dependent on their uninterrupted energy supply capabilities. Any outage time caused by unexpected failures needs to be minimized to keep outage costs as well as reputational damage to an absolute minimum.

## Customer Challenge

In case of an unexpected failure, the rapid availability of proper spare parts becomes highly significant.

Siemens Energy, as OEM for high-voltage switchgears, has been supplying the global market with thousands of AIS and GIS assets over decades. These assets of all generations from the 1960's onwards show significant variance in applied technology and design. Therefore, a wide range of spare parts exist to meet all our customers' needs.

However, due to the large number of designs and variants, spares cannot be kept in stock. The effective availability of spare parts comes up against supply chain limitations. Depending on the age of the assets, lead times of eight to 18 months need to be considered. – Generally, too long for critical assets.

## Solution

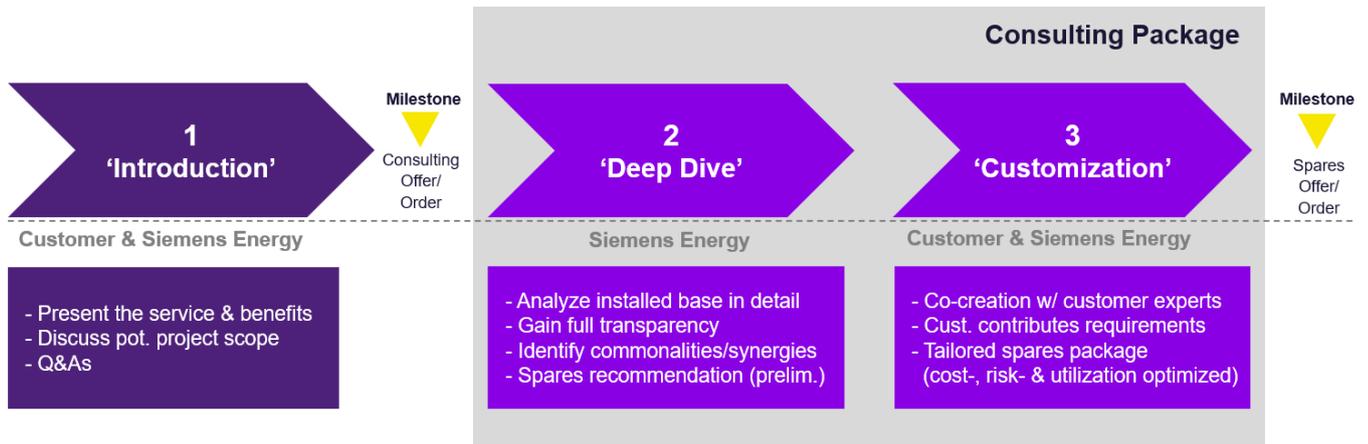
Siemens Energy recommends keeping carefully selected, and quickly replaceable spare modules ready at customers' warehouses. AIS and GIS assets which are considered critical shall be the focus.

But which parts or modules are critical from the technical point of view, and which are critical with respect to operational requirements? And how can this be combined? Smart Spares Consulting provides the right answers to these questions. Customers can benefit of a:

- smart
- efficient
- co-created &
- sustainable

approach to the selection of just the essential strategic spares which will ensure the operational availability of their switchgears.





The Smart Spares Consulting selection process employs Siemens Energy's domain knowledge as switchgear OEM and actively involves customer experts to contribute operational requirements and expertise of their own power network. This way, it:

- Optimizes utilization of spares within the entire asset fleet
- Exploits all interchangeability options within the entire asset fleet
- Incorporates customers' power network characteristics and their operational requirements
- Ensures the operational readiness of recommended spares by proposing long-term storage measures
- (Optional): Considers already existing spares in customer inventory to make best use of previous investments

### Your Benefits

- ✓ Minimized total cost of spares
- ✓ Maximized responsiveness for repair and quickest restoration of operation
- ✓ Minimized outage times and associated outage costs
- ✓ Greater resilience against crises



### Easy Implementation

Smart Spares Consulting can be implemented in just three steps:

1. 'Introduction': presentation of the service and its benefits, clarification of customer's expectations and potential project scope, questions & answers.
2. 'Deep Dive': detailed analysis of customer's installed base of switchgear assets ('paper-based') on functional module level (SLD); identify commonalities and synergy potential within installed base; proposal of preliminary spares recommendation.
3. 'Customization' workshop: co-creation with customer experts incorporating their requirements and ratings; lifting synergies between asset modules; allowing an iterative process to derive the tailored spares package which is cost-, risk- & utilization-optimized.

### Call for Action

Smart Spares Consulting is powerful to solve your spares challenges, as it stands on a solid base of unparalleled switchgear asset data transparency – combining it with the expertise of your own experts and that of Siemens Energy's in one.

#### ► Make use of it!

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