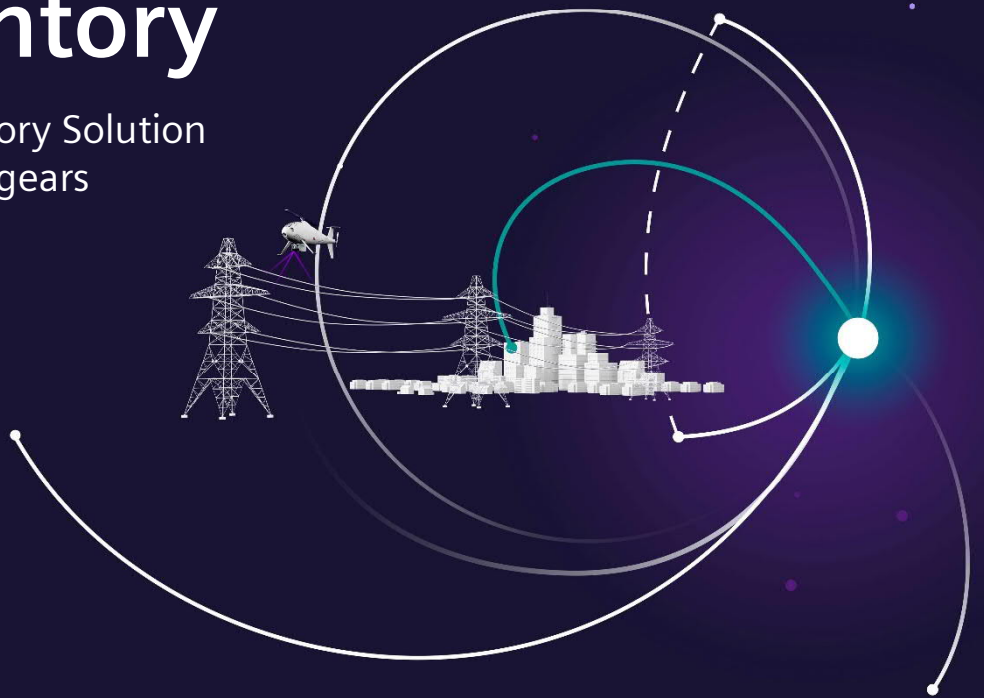


SparesVentry

Customer Spares Inventory Solution
for High-Voltage Switchgears

Spare Parts Consulting



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

Introduction

Operational availability of high-voltage 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.

For this reason, many transmission and distribution system operators have assessed their risk and then have therefore stocked selected strategic spare parts. These spares are intended for use in emergencies. They will significantly reduce downtimes by helping to restore operability of the switchgear quickly.

Of course, the spare parts themselves need to be in adequate operational condition to perform as intended. For system operators it is also crucial to know in advance which spare part can be used at which substation and at which bay within their network. It would even be better to know if there are additional alternative deployment options for a certain spare. This could clearly increase the efficiency of the spare part invest.

Solution

Siemens Energy helps you to make the most of your spares in stock. The spares inventory solution 'SparesVentry' provides you with just the right answers to the following questions:

- Which spare parts exactly do we have in stock (OEM material number codes known)?
- Are our spares ready for use or do they require reconditioning?
- For which substations and bays are our spares suitable (primary and alternative use)?

Depending on your choice we perform the following steps:

1. Spares inventory creation

Previously purchased spares will be identified and a spares inventory data base will be created. Data fields include e.g., designation, OEM material number code, quantity, delivery date etc. Crate shipping marks and labels with delivery note references will become essential in this step.

2. Spares condition assessment

Our experts will visually examine and assess the condition of your spares on site. Findings will be used to update the spares inventory data base. Additionally, reconditioning recommendations are provided, as required.

1. Spares Inventory Creation
Creation of an inventory of customer's existing spares in stock. Setup of a spares inventory data base.

2. Spares Condition Assessment
Condition assessment of spares with respect to their operational readiness. The assessment is based solely on a visual examination. All findings are reported in the spares inventory data base.

3. Installed Fleet Deep Dive
Detailed analysis of customer's GIS asset base. Gain full transparency over all modules on material number level. Key commonalities across customer's asset fleet are identified to exploit synergies.

4. Interchangeability Evaluation
Compatibility check of the spares in the inventory data base with the installed GIS fleet (Deep Dive). The inter-changeability matrix provides clarity where spares can be deployed in case of a failure. The 4-level matching evaluation describes the degree of compatibility (yes / no / no-with minor deviation / no-with major deviation).

Stepwise approach to the 'SparesVentry' solution

3. Installed fleet deep dive

A detailed analysis of your GIS fleet is performed. Full transparency is gained over all functional modules on material number level. This provides the basis for the compatibility check with your spares. Key commonalities across your GIS are identified to exploit all possible synergies.

4. Interchangeability evaluation

Using the comprehensive information in the spares inventory data base, as well as the transparency gained out of the installed fleet deep dive, the interchangeability matrix will be created. This matrix combines all available data and shows every potential deployment option for your spares within your GIS fleet.

To maximize the deployment options and thus increase risk coverage, we introduce a 4-level matching evaluation which describes the degree of compatibility for each match (yes / no / no-with minor deviation / no-with major deviation). For matches with deviations we provide spares modification recommendations.

Your Benefits

- ✓ Minimized outage times and associated outage costs in case of emergencies
- ✓ Shortest reaction time to identify and to deploy the right spare part in case of an asset failure
- ✓ Full transparency of your spares in stock - qualitative and quantitative
- ✓ Interchangeability knowhow of your spares with your asset base to exploit synergies
- ✓ Ensured operational readiness of your spares in stock
- ✓ Ability to make best use of your investments of the past

Call to Action

The 'SparesVentry' solution is powerful to solve your spares challenges.

It stands on a solid base of unprecedented data transparency of your spares & switchgear assets – it combines both to take full advantage of your investments of the past and makes your company more resilient to switchgear failures in the future.

► Make use of it!

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