Harnessing technology to generate solutions

Finding critical plant documents quickly can improve plant availability. Every day, power plants generate more than power: they generate data both electronically and on paper. The continuous flow of information, such as condition reports, performance figures and outage reports, require the production and storage of thousands of documents at a typical power plant.

Traditionally, hard copy documents have been filed and stored wherever there was room – first in file cabinets, then in storage rooms and finally wherever empty floor space could be found. Electronic documents often are kept on individual computers and are not readily accessible to others. As a result, plant engineers and technicians can spend hours, or even days, searching for just the right document with the specific data and information they need. When the correct document is found, it must often be shared among multiple personnel. Because there is no central document management system, information can get lost, misfiled or damaged. Productivity can suffer and critical time delays can occur.

Tecdocpower for Siemens Fossil Power Plants

Immediate digital access to your plant documentation

Hardware (Minimum Requirements)

| Processor | Intel Xenon E5-2643v2 6C/12T, 3.50 GHz, 25 MB, 64 GB RAM |
| Harddisks | 6 x 600 GB (2 x 600 RAID1, 3 x 600 RAID5, 1 x 600 Hot Spare) |

Hiper-V (Virtual Machine)

| 10 GB RAM assigned |
| minimum 130 GB |

Number of Processors

<table>
<thead>
<tr>
<th>Number of Documents</th>
<th>&lt; 30,000</th>
<th>30,000 ≤ n ≤ 70,000</th>
<th>&gt; 70,000</th>
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</thead>
<tbody>
<tr>
<td>1 CPU 6 cores</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2 CPUs 4 cores</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 CPUs 6 cores</td>
<td>X</td>
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</tbody>
</table>

Siemens.com/power-generation-services
Siemens recognized that this issue could be resolved through applied technology. Tecdocpower was developed exclusively to enhance the ability to manage and quickly retrieve your plant-generated documentation.

**Global network, local service**
One of the latest capabilities Siemens developed to address the needs of its customers is Tecdocpower, a powerful web-based document management system developed by Siemens Power and Gas specifically to meet the needs of the power industry. Tecdocpower can be implemented in any power plant, anywhere and easily operated and maintained.

**Our solution**
Tecdocpower provides pure state-of-the-art technology by using future-oriented standards, and is based on Microsoft SharePoint 2013, which ensures future-proof support with a large community. It supports any type of Microsoft Office document and many other formats, such as .pdf, .jpg and more.

Tecdocpower is connected via the local access network (LAN) with a dedicated server backup.

**Innovative graphical navigation makes Tecdocpower easy to use.**

Tecdocpower has been designed to be so user-friendly that even a novice can quickly locate any document in the digital library. Working with a graphic overview of the power plant, the user can click on turbines, generators or any balance-of-plant system. Through a series of sequential clicks on “hot spots,” Tecdocpower takes the user deeper and deeper into the system and subsystem, delving down to the level of individual rotor blades or bolts.

Tecdocpower dynamically presents the documents most important to the people that operate and maintain the plant. Tens of thousands of documents generated by the plant, including reports, manuals, drawings and procedures, can be available at your fingertips with only a few mouse clicks.

Versioning functionality allows to store, track and restore documents whenever they change or are being uploaded for the first time. Implemented approval workflows give much more control in the technical documentation quality contained in Tecdocpower.

Tecdocpower structures the documentation using an intuitive interface, reflecting the outline of a power plant and its equipment.

The solution integrates 3D artwork (if available) and thousands of navigation images of the actual equipment in its screen display.

Tecdocpower can help boost your bottom line by providing prompt electronic document access to technical documents at your plant, which can help facilitate return to operation and a significant increase in plant availability.

**Your benefits**
Tecdocpower is designed to:
- Dramatically accelerate the search for specific documents and be easy to use with no special training – it's as simple as surfing the web.
- Simplify document management and maintenance – you can store your latest revisions of plant documentation for easy accessibility by operators, maintenance and management personnel from any designated computer.
- Reduce the workload on plant personnel searching for documents to meet the needs at hand.

Tecdocpower – another value added capability to enhance your business.