



## Improved Efficiency at RWE using InnoCielo Meridian Enterprise



### Customer profile

RWE Power AG is one of the largest producers of electricity in Europe with 158.7 billion kilowatt hours and more than 17,000 employees.

### Industry Vertical

Energy & Utilities

### BlueCielo ECM Solutions

- InnoCielo Meridian Enterprise

### Key Benefits

- Installation-oriented archive of technical documents
- Documents available in a rapid and simple way when breakdowns occur
- Improved collaboration with external planning agencies
- Great flexibility
- User friendly interface

### Company Profile

RWE Power AG supplies annually 158.7 billion kilowatt hours of electricity, produced by brown coal and regular coal power stations but also nuclear power plants and regenerative power plants. RWE continually works on methods to improve and optimize the efficiency of their new and existing power stations. Optimization is a key aspect in the engineering, design and construction of new and existing power stations. Efficiency is an important factor in the planning of the operations and maintenance of the power stations.

### Optimizing Brown Coal Power Stations

Energy extracted from brown coal covers approximately 25% of Germany's electricity requirements. Despite the lack of subsidy, burning brown coal produces cheap energy, so that brown coal power plants are used to meet the daily basic need for energy. RWE has a station of this type in Frimmersdorf, with 14 units and a gross production of 2,265 megawatt. In the immediate neighbourhood there is a second station with five units in Grevenbroich-Neurath. In addition, work is currently being carried out on extensions involving two modern brown coal power stations with optimized technology (BoA); an investment volume of € 2.2 billion.

### InnoCielo Meridian Enterprise in the Brown Coal Division

In 2003 the brown coal division initiated the selection of a technical document management system for the Construction and Documentation departments. InnoCielo Meridian Enterprise was selected based on integration capabilities with native CAD and Office applications as well as the ability for batch-type processing of metadata for multiple documents and the mass import of data. InnoCielo Meridian Enterprise also offered the possibility of saving documents for further integration in SAP; a simple mouse click is sufficient to include documents in the daily synchronization with SAP.

### Extensive Data Storage in InnoCielo Meridian Enterprise

Currently, the Construction and Documentation department manages over 1 million documents using InnoCielo Meridian Enterprise, with a total volume of some 720 gigabytes in document data. This is made up of scanned and hybrid drawings, plus MicroStation, AutoCAD and Ruplan documents and Elcad projects, the latter being stored as PDF documents in InnoCielo Meridian Enterprise. Then there is the operational documentation, controlled statistics, or Excel tables, such as calculations and photos of the current BoA 2 /3 construction sites.



### InnoCielo Meridian in the Regenerative Power Division

RWE Power AG also concentrates on regenerative energy, especially hydro power. In addition to run-of-the-river plants, water pumped storage plants are also used for storing electricity and energy. When there was as yet no central system for managing documents relative to the various separate regenerative energy stations, it was often necessary to go to the location in question to obtain a relevant document. Here too InnoCielo Meridian Enterprise was implemented, thereby solving several problems at once: the core problem was that each time and at different locations the current documentation relative to the various power plants had to be accessible. In view of the fact that, prior to the implementation of InnoCielo Meridian Enterprise, no other document management system had been deployed, immediate use was made of the opportunity for removing all superfluous and inconsistent contents from the documents available, thereby gaining the certainty that only the most up-to-date version of a document was displayed. In the case of a revision, an overview of the document status was also available.

### Different Customers with Different Requirements

All the technicians in the companies and the central engineering department working in the field of regenerative energy have full access to all the documents managed there. In contrast, there are users who only have reading rights, and can consult the managed documents via a simple program, the search term passing through a small number of search values, providing simple search results such as the river on which the station in question is situated or the name of the station. Whereas, in the brown coal sector, documents available from different systems were merged in InnoCielo Meridian Enterprise, in the regenerative energy sector we started with nothing. Neither the implementation of the system nor the training of the employees was possible from one day to the next because of the various locations. However after internal training sessions of one hour for normal users and half a day for more intensive users the employees were able to handle the system.

### For use under Extreme Conditions

InnoCielo Meridian Enterprise allows access to relevant documents for the purposes of maintenance and for new projects, but will also offer solutions for emergency situations. The brown coal station in Frimmersdorf has already had the experience. A fire in 2006 caused the entire station to burn out, which also had an effect on the power supply and thus the computers, making the required documents unavailable. However the data in the EDM system were stored on two different servers outside the power station, which made it possible to access the data from the station in neighbouring Neurath. Thanks to the rapid availability of the required documents it was possible to restore the basic electricity supply using generators. Later, the various separate central units were gradually switched over again.

### Conclusion

According to Jürgen Ecken, manager of the Construction and Documentation department, are the users very positive; "InnoCielo Meridian Enterprise makes it possible to get rapid access to the technical documents that have been input, not least because of the wide-ranging search functions. The system was well received by the employees because of its ease of operation. Without Meridian, any progress at the new construction site would have been unthinkable". In summary InnoCielo Meridian Enterprise optimizes the business processes at RWE to ensure operational excellence, economic efficiency and plant safety & health.

© 2008 BlueCielo ECM Solutions. All rights reserved. BlueCielo, InnoCielo, Cyco and AutoManager are registered trademarks of BlueCielo ECM Solutions. All other goods and product descriptions or trademarks are the property of the relevant holders.