SIEMENS

Issue 11/12

HVDC/FACTS - Highlights

Dear Ladies and Gentlemen,

"Your task is not to foresee the future, but to enable it."
Antoine de Saint-Exupéry (1900 – 1944)

Increasing energy demand and a sustainable energy mix calls for a new grid design for the future. Read examples from around the world of FACTS, Grid Access for offshore windfarms, and technical guidelines for the first HVDC grids and how the innovative technology solutions from Siemens offers you the availability to lay the ground for your future grid.

Ute Rohr, MSc.
E-Marketing

Sincerely,

Karl Uecker, Ute Rohr, Dietmar Retzmann

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Living Energy, Issue 07:

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Grid Access:
Offshore Wind Power is an important element for a sustainable energy mix: Example London Array

Last Events:
CIGRE 2012 – International Conference of the International Council on Large Electric Systems
France, Paris, August 27 to 31, 2012

OVE (Österreichischer Verband für Elektrotechnik): Energy - Looking 50 years into the future (only in German)
Austria, Vienna, October 10 to 11, 2012

IThe Qassim SVC Project, Saudi Arabia

Siemens quality of FACTS systems convinces in operation -
The Qassim SVC successfully commissioned in June 2012

It is a big challenge for the Saudi Electric Company (SEC) to supply their consumers with the additional 30 GW of power needed over the next 10 years, while ensuring a stable grid through load swings that differ extremely between summer and winter months. Learn how Siemens FACTS technology offers SEC the quality in design and in operation.

>> Click here

The Safaniya SVC: New big FACTS Order in Saudi Arabia

Siemens received turnkey contract for one Static Var Compensator

At the end of September 2012, Siemens was awarded the project for the Dynamic Reactive Power Compensation at Safaniya 380/230 kV high-voltage substation by Saudi Electricity Co. (SEC) in Saudi Arabia. With the turnkey contract for this Static Var Compensator (SVC), Siemens confirms its role as one of the major suppliers for FACTS devices in Saudi Arabia. With four predecessor projects, Siemens has greatly contributed to the Saudi Arabian grid extension in the past three years, providing innovative solutions for the extraordinary challenges set up by the extreme climatic conditions in this area.

The SVC will be installed in Safaniya, 250 km north west of Dammam, on the east coast of Saudi Arabia, to support the 230 kV (60 Hz) AC network, with a total capacity of 600 MVAr in the range of +/- 300 MVAr.

Power system voltage can be exposed to undesired fluctuations due to load shut-downs or power system faults which need to be counteracted and controlled quite fast. The SVC as a variable reactive power source, connected via step down transformer to the selected network point, supports this requirement reliable at each time with the amount of reactive power demanded.

Last Events

CIGRE 2012 – International Conference of the International Council on Large Electric Systems
France, Paris, August 27 to 31, 2012

>> CIGRE Homepage
>> Technical guidelines for first HVDC grids - A European study group based on an initiative of the German commission for electrical, electronic & information technologies
>> Projects BorWin2 and HelWin1 – Large Scale Multilevel Voltage-Sourced Converter Technology for Bundling of Offshore Windpower

OVE (Österreichischer Verband für Elektrotechnik):
Energy - Looking 50 years into the future / Energie – 50 Jahre vorausgedacht
Austria, Vienna, October 10 to 11, 2012

>> Development of the grid: Solutions for the Future /
Entwicklung der Stromnetze: Lösungen für die Zukunft (11.0 MB)