



Conversion of a sports center into a modern general-purpose facility

ABB is heavily involved in the realization of a new general-purpose facility for exhibitions, conferences and similar events being built in the southern suburbs of Vienna, Austria. A contract awarded to ABB and the recently acquired company Haustechnik-Spezialisten Kraft & Wärme calls for an existing pyramid-shaped building with pool and tropical surroundings plus tennis courts (in the City Club Hotel Vienna) to be converted into a center for special events and exhibitions.

ABB will act as technical general contractor for the customer, DL *Hotelbetriebs GmbH & Co OHG*, and be responsible for the overall coordination: besides the refurbishment, ABB is undertaking the installation of the electrical equipment, fire alarm systems, security and lighting systems, as well as work involving the heating, air-conditioning and ventilation.

The building's unique architectural appearance will remain unchanged during its conversion, whereas the swimming pools and tennis courts will disappear to make room for up to 4000 people at a time. The first events are due to be held in the new facility before the end of 2000.

Two new large substations for London

An order worth about US\$ 30 million from the *National Grid* to build a new indoor high-voltage substation at City Road in London, UK has been won by ABB. Use of ABB's compact gas-insulated switchgear (GIS) technology will enable the turnkey 400-kV substation to be housed inside a brick building to minimize its impact on the urban environment.

Under the terms of the contract, ABB will supply four GIS switchbays and associated equipment, together with a 240-MVA transformer and substation protection and control systems. ABB is also responsible for the engineering design and civil works as well as for installation and commissioning. On-site work commences next year and the project is scheduled for completion in the summer of 2003.

The substation is a key part of a program by a local utility, London Electricity, to reinforce the power grid serving the London area. The order is the second to be won by ABB this year for an HV substation in London. In June, ABB announced a US\$ 80-million GIS substation order for North West London and the City area. ABB also belongs to a consortium that is upgrading the London Underground power distribution network.

ABB awarded US\$ 260-million offshore Khuff gas project

ABB Lummus Global Inc. has been contracted to design the offshore Khuff gas project in Abu Dhabi, United Arab Emirates, for *ADMA-OPCO*, an operating arm of the *Abu Dhabi National Oil Company (ADNOC)*.

The contract is for modifications and technology upgrades of 13 existing gas platforms and the construction of two new platforms. The platforms have topside weights of 4400 tonnes and 1200 tonnes, and are being developed and constructed for water depths of 20 to 30 meters. The National Petroleum Construction Company (NPCC), ADNOC's 70 percent owned construction company, is responsible for fabrication and construction work for this project.

ABB to supply electrical equipment for cement production line in Egypt

ABB Industrie AG, Switzerland, has been awarded a contract valued at approximately US\$ 9 million to supply the entire electrical equipment for a fourth cement production line at the *Egyptian Cement Company (ECC)*, Cairo. The new production line is being built near Suez.

The order comprises the control and automation system, including hardware and software, the switchgear and power transformer, the complete electrical infrastructure, motors and drives. Advanced ABB drive technology, eg ACS 1000 drive systems (*see ABB Review 2/1998*), will be used. ABB will also be responsible for the engineering, erection and commissioning.

ABB already supplied electrical equipment for the cement company's first three production lines. The fourth line is scheduled to begin operating in November 2001.

US\$ 150 million telecom infrastructure order won in Australia

A US\$ 150 million order to design, maintain and upgrade the telecommunications access network in five of Australia's states and territories has been awarded to ABB. The order was placed by *Telstra*, Australia's largest data and telecommunications company.

Under the terms of the contract, ABB will be responsible for the design and installation of broadband field services, cross-connect units, jointing, CAN (Copper Access Network) electronics, new estates work, network maintenance and optical fiber work.

ABB has a strong track record in installation and providing service for fixed as well as wireless telecommunications infrastructure. The company has already won two contracts to install base stations for the wireless GSM market in Australia and has undertaken similar projects in the Nordic countries, Switzerland, Austria, Poland, and elsewhere in Europe.

Major switchgear order from China

The *Jiangsu Nuclear Power Corporation*, China, and ABB High Voltage Technologies Ltd of Switzerland, have signed a contract valued at about US\$ 17 million for the delivery of a 500-kV GIS substation, a 500-kV gas-insulated transmission line and a 220-kV GIS substation, as well as an XLPE cable

rated at 220 kV. The contract also covers the engineering, installation and commissioning work.

The equipment is for the Jiangsu nuclear power plant, which is located on the Yellow Sea. Delivery is scheduled for 2001 and 2002, with commissioning due in October 2003.

Innovative electrical concept for six new wind power plants

ABB has won a US\$ 4 million contract from the Zephyros company in the Netherlands to develop and supply the electrical equipment for a first order of six wind power plants. The highly innovative concept for the 2-MW plants comprises a generator, a converter, based on the ACS 1000, the control system and auxiliaries.

A unique feature for this power class is the 'direct-drive generator' – a gearless synchronous generator with permanent-magnet excitation. In addition, the installation operates with medium voltage, which has advantages over low voltage at this power rating.

Electrical equipment for twelve rotary printing presses

A contract for electrical equipment worth some US\$ 13 million has been placed with ABB Industrie AG, Switzerland, by printing machine manufacturer Koenig & Bauer AG (KBA) of Germany. The equipment is for twelve identical 48-page satellite rotary printing presses of type KBA Commander that KBA is supplying to the Mediaprint company in Vienna. Mediaprint will use the new presses to publish Austria's best-selling newspaper, the 'Neue Kronen Zeitung', the 'Kurier' and many other print products.

The 36 satellite towers with 288 printing stations will be installed in 2002 on four lines at three sites in Vienna, Salzburg and southern Austria.

ABB Industrie deliveries include all the drives, the control system, 24 control stands, and a dual computer system for each printing site. ABB is also responsible for the installation, commissioning and training.

