

TCD Review

www.thecabledirectory.com - TCD Monthly Report - December 2009

Special feature
on HFSAB's new
Cable Repair &
Recovery System

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Interview with
Derek Russell,
Managing Director
of HFSAB

HFSAB
SUBSIDIARY OF TECK COMINCO

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Draka expands subsea
power solutions for
offshore wind;
Oil & gas markets

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INTRODUCTION

In the December Issue of TCD Review our special feature is an interview with Derek Russell, the Managing Director of HFSAB. The company based out of Sweden are well known to all the major cable manufacturers for supplying lead extruders for over 50 years.

Derek not only discusses the benefits of their company but provides us with an insight into their new product, the HFSAB Cable Repair & Recovery System. The new machine is not just a scrapping machine for recovering valuable metals from cable cores. It can be used in production to carefully remove damaged sheath without harming the core or underlying sheaths.









Our featured stories in this issue include 'Draka expands subsea power solutions for offshore wind; oil and gas markets' and 'Nexans secures 35 million euros submarines power cable project for the French island of La Reunion'

However with over 40 leading stories on cable and wire, project awards and products developments; there is something in the TCD Review for everyone.

Enjoy!

Alastair Caithness
Editor

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**THE
CABLE
DIRECTORY**

**YOUR
FIBRE OPTICS
NEWS**

**YOUR
CABLE AND WIRE
NEWS**

**YOUR
GENERATOR
NEWS**

**YOUR
PROJECT
NEWS**

**YOUR
TRANSFORMER
NEWS**

**YOUR
CABLE ACCESSORIES
NEWS**

**YOUR
CABLE PLANT
NEWS**

TOP 10 CABLE STORIES OF THE MONTH

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Habia announces new SeaGuard naval cable range	<i>pg. 19</i>
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Sheikh Hamed bin Zayed and Sheikh Majid bin Mohammed break ground for new Ducab High Voltage Factory	<i>pg. 23</i>
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Alcan Cable hosts opening ceremony for its Tianjin aluminium alloy cable manufacturing plant	<i>pg. 26</i>
Bechtel selects Alcatel-Lucent to deploy a fully integrated end-to-end communications solution for Angola LNG Plant	<i>pg. 31</i>

KEY PROJECT AWARD

GE Oil & Gas and Rockson Engineering awarded US\$230 million contract for Nigeria Power Plant	<i>pg. 27</i>
Vnesheconombank, SIBUR Holding, SACE, and Technimont sign Memorandum of Understanding for construction of the largest polypropylene complex in Russia	<i>pg. 28</i>
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Clough AMEC awarded offshore maintenance services contract for Woodside Energy's oil and gas assets, North West shelf, Australia	<i>pg. 31</i>

HFSAB, *unique to the cable & wire industry*



The Cable Directory interviews Derek Russell, Managing Director of HFSAB, a world leading supplier of equipment to the cable industry for over 50 years.



Derek Russell

What makes HFSAB unique to the cable & wire industry?

H. Folke Sandelin AB has been designing, manufacturing, delivering and supporting the Hansson Robertson Lead extruder since 1949. During this period we have worked closely with our cable customers and modified the equipment to the requirements

of the industry. Today with its latest horizontal design we believe that the equipment is possibly one of the most reliable cable machines in the industry.

These extruders are very different from traditional plastic or rubber extruders because their

operation depends on a complex blend of temperatures, speeds, pressures and numerous other metallurgical factors. All of which are so important to producing an excellent product and that is where we achieve our uniqueness to the industry.

What targets does HFSAB have in place to counter the current financial climate?

H. Folke Sandelin AB obviously understand that in these difficult financial times its of paramount importance to be flexible. Two important questions must be considered here; where would the cable industry be without the cable equipment suppliers and where would the cable equip-

ment suppliers be without the cable industry?. The answer is very clear, that we share a joint dependence upon each other.

In the current financial turmoil equipment suppliers with this joint dependence in mind must reflect this with pricing and payment terms. But also on the

reverse of this cable companies must reflect on the fact that when they purchase equipment its not just steel and electronics. The development costs that go into these machines are massive but to all intense and purposes remain invisible for the sale of the equipment.

INTERVIEW

How do you see HFSAB market base expanding into new markets in the future? i.e. Areas such as China, West Africa, and Asia?

H. Folke Sandelin AB where one of the first to deliver European cable equipment to China with the first sale in 1979.

We see that the developing

markets and also the our existing markets need and require much more information and support to achieve there goals and to this end we were fortunate at the end of 2008 to en-

rol the services of our new, Marketing and Technical Support Manager, Mr David Smith. Whom many will know from his previous position at Northampton Macinary/MGS Manufacturing.

Are there any new products and technology developments in the pipeline?

We recently introduced a new piece of equipment that can greatly assist cable companies in reducing costs.

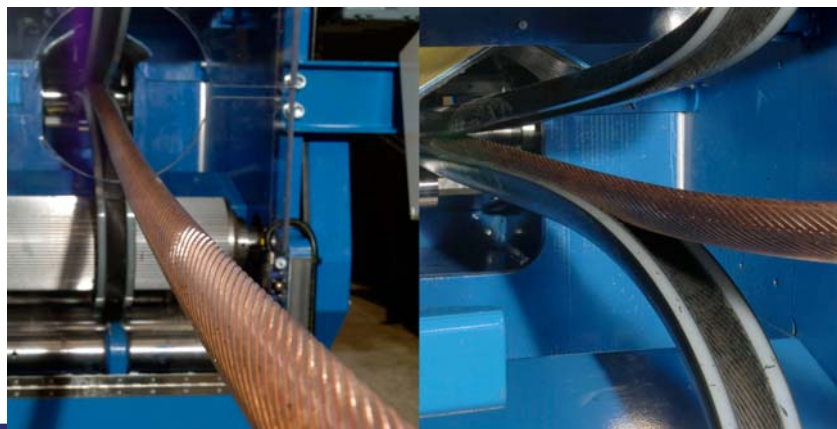
This machine the CRRS, "Cable Repair and Recovery System", al-

lows for the repair of manufacturing faults by enabling the SAFE removal of the faulty cable layer so that the cable can be reprocessed.

Alternatively the equipment can be used to strip the cable back

to bright conductor whereby this conductor can be re-used or scrapped at a much higher value than in its insulated form. The equipment is fast, easy to use and has a quick payback of costs.

What are the key unique selling points that makes HFSAB better than the competition?



Our best selling point is what we deliver:

1. We deliver quality products, designed and specified for their particular application
2. We deliver not just the equipment but also the "know how" of how to use the equipment
3. With over 50 years experience HFSAB are the only company in the world that can deliver technical support, parts and services

With climate change becoming an issue; how does HFSAB see this affecting the energy sectors?

Growing concerns regarding "Green House Gasses" and the worlds environment will impact our industries product demand and range of cables.

The use and demands for electrical power will escalate disproportionately to the worlds industrial growth.

Only recently the Indian government have promised that every

house/dwelling in India will have electricity within a certain time frame. When you consider this statement in just this part of the world; what does an extra 1 billion people having access to electrical power do to requirements of cables!

Globalisation and Power Sharing is well on the way to being reality. Ongoing and new massive

submarine networks are gradually moving silently across the worlds sea beds linking and sharing power demands.

Re-building of an aging and under-powered European infrastructure, re-usable power, wind farms all of these will demands on the power sector clearly show that "Energy Cables" have a very strong future in the worlds economy.

INTERVIEW

Has it been a good year for HFSAB and are there any particular projects that re-iterate the strength of the company?

The first 3 quarters of the 2009 were strong and the company will have a good year but this work was mainly the remaining deliveries from the peak time of 2008. The last quarter of 2009 has been very slow but orders are arriving for parts and services.

We have seen an increase in the request for quotations within the last month.

There are numerous inci-

dents that illustrate the strength of our company, but the one that springs to mind is where a major European cable producer ran into problems during the routine service of lead extruder. Within 2 hours of the telephone call it was determined that an engineer was required and despatched immediately as the extruder was required for production within 2 more days.

After his arrival 5 hours later, it was determined that parts were required.

These parts along with a further engineer were dispatched after the fitting of bearing etc to the parts.

Within 36 hours of the telephone call the equipment was back up and being heated for operation.

I'm proud to be part of this company!

How does HFSAB view on-line media, advertising and promotion and how can this help a company as big as HFSAB?

We are already member of the cable directory and this company's assistance with our new web page only illustrates the importance we put on the On-Line aspect of our business.

Also of the lead extruders we have delivered since 2005 have the possibility of being remotely accessed and supported by our engineers via Internet.

What have been the key factors behind the success of HFSAB?

Primarily our success is our products and our Know How. It is very much a niche market for this kind of equipment and what we need to deliver is quality, reliability, support and most important confidence.

Are there any other recent developments by HFSAB that our readers should be interested in?

Our latest machine the CRRS (Cable Repair and Recovery System) is something for all types of cable manufacture and we believe that the system will have a respected place in the cable industry as a means of controlling costs by reducing scrap and also increasing scrap value.

HFSAB
SUBSIDIARY OF TECK COMINCO

Derek Russell's Biography

Derek Russell, born 14th May 1954 in East London.

He studied electrical engineering and engineering management whilst undergoing an engineering apprenticeship with the Ford Motor Company Ltd in London.



Entered into his first job in the cable industry as "long term facilities planning engineer" for Standard Telephone & Cables Ltd in Woolwich during 1974 and later moving on to Telephone Cables Ltd during 1975 as a "Project Engineer".

During 1976 he joined H. Folke Sandelin AB as a commissioning and development engineer but was based at the companies London agency.

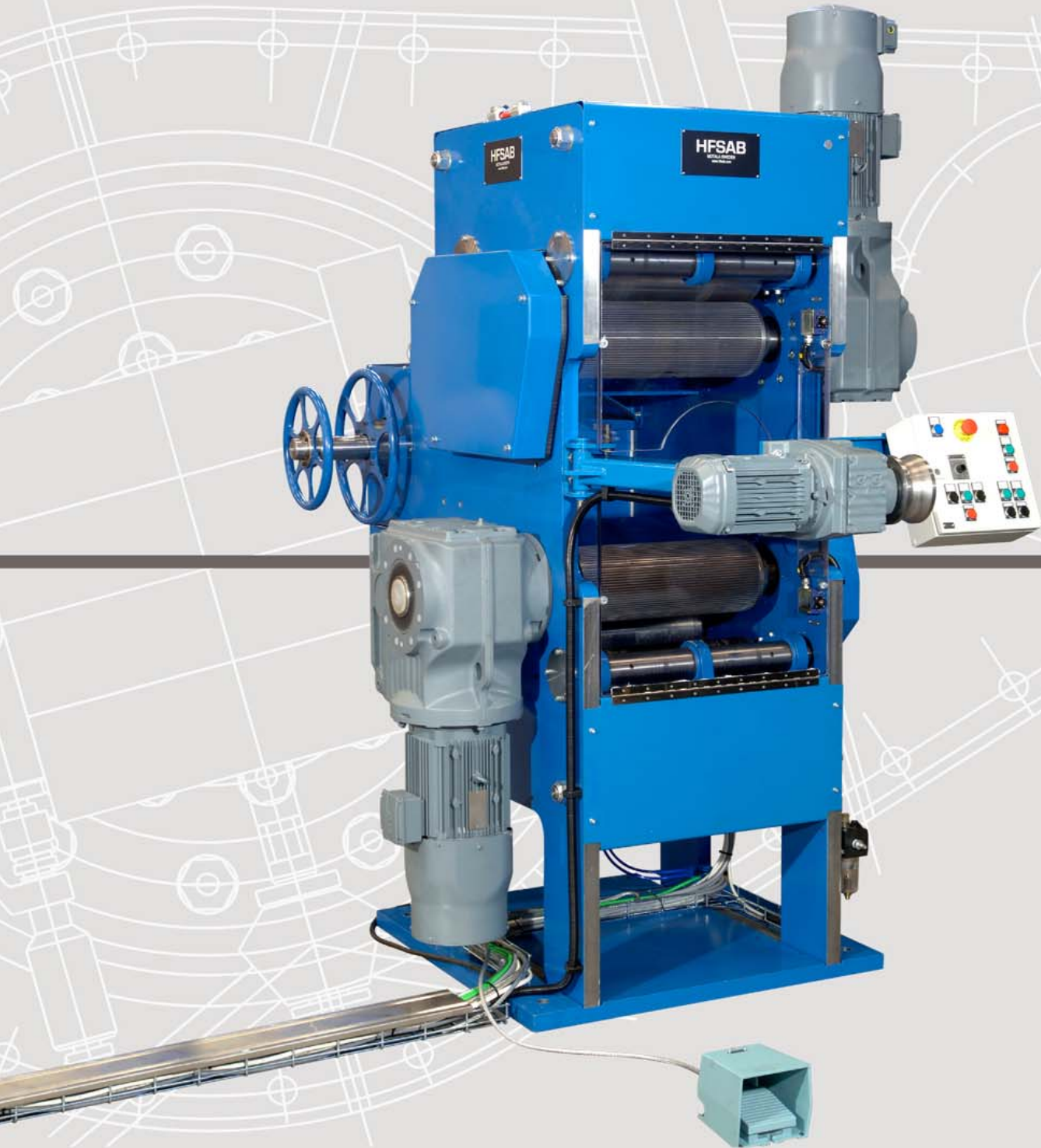
In 2003 H. Folke Sandelin AB was sold to the large Canadian mining company, Teck Cominco Metals, (now known as Teck Ltd).

It was during this period that he relocated to Sweden and became joint managing director along with his colleague Kenneth Gustavsson who retired during 2008.

After 34 years in the cable industry he remains as managing director of H. Folke Sandelin AB, based in Motala Sweden where he and his team of 20 strive to achieve and maintain an excellent reputation within this industry.

HFSAB

World leading supplier
of equipment to the cable industry!



Cable Repair & Recovery System

The only stripping machine you'll ever need!

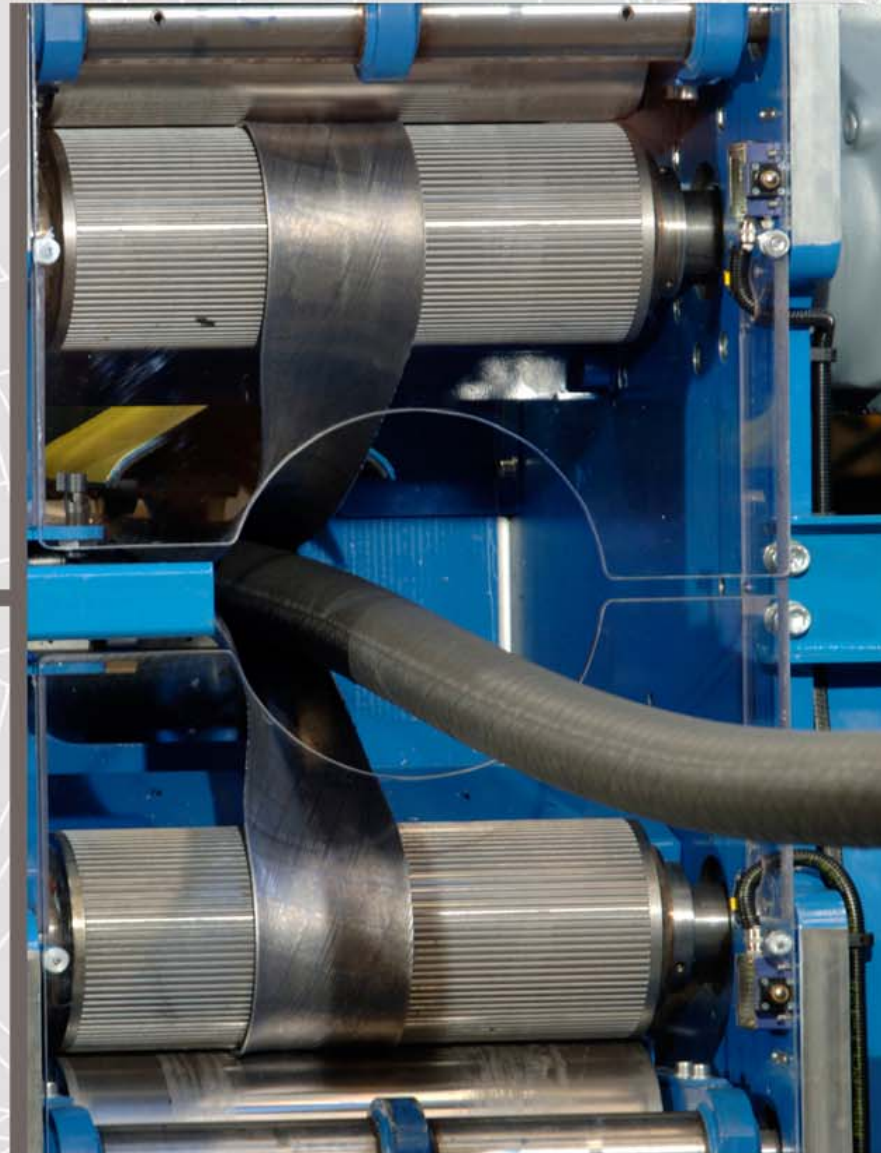
Cable Repair & Recovery System

The new HFSAB Cable Repair & Recovery System is not just a scrapping machine for recovering valuable metals from cable cores. It can also be used in production to carefully remove a damaged sheath without harming the core or underlying sheaths.

The machine will handle most soft sheathing materials on the market such as lead, plastic and even tough materials like XLPE, HDPE and PVC.

The machine is built up by modules to handle the full range of cables.

Each module can be purchased individually to create the most efficient combination for your company's product range.



Production Data

- Cable diameter: 10 - 180 mm
- Sheath thickness: 1 - 30 mm
- Feeding velocity: 0 - 20 m/min
- Sheath material: PE, XLPE, PVC, HDPE and Lead

HFSAB

Cable Repair & Recovery System

The Cable Repair and Recovery System has been specifically designed to assist cable manufacturers when a problem occurs during the normal cable manufacturing process.

Unfortunately accidents do happen and this equipment is your solution to repair the damage.

This latest design of machine has the possibility of:

- Remove an outer jacket of PE, PVC, HDPE, etc without any damage to the cable layer below it, thus enabling the outer jacket to be re-applied and the cable repaired.
- Remove the metallic sheath of the cable without damaging the moisture expansion tapes or any other kind of cable layer below it, thus allow the re-application of the metallic sheath.
- Remove the triple XLPE insulation from the conductor core without damage to the expensive cable core and thus allow the conductor to be re-used.



Even if the cable is just going to be scrapped, the metal price differences for insulated or un-insulated cables are very large and the equipment would have a very short pay-back period, if the metals are scrapped in their “bright” form.

In summary it is a very accurate and simple to use cable repair and recovery system where a faulty cable layer can be removed and re-applied or a fast and easy way of breaking a cable down into its metal and plastic elements for a cost effective means to maximising scrap values.

HFSAB

Mitsubishi Materials to turn Mitsubishi Cable into wholly owned unit

Mitsubishi Materials will turn its affiliate Mitsubishi Cable Industries into a wholly owned subsidiary by acquiring all shares through a stock swap scheme.

Mitsubishi Materials said it wants to incorporate Mitsubishi Cable's copper business at a time when demand for copper products with effective electrical conductivity is expected to increase as the society moves toward clean energy, adding it will also help the affiliate stabilize its financial standing.

They plan to complete the equity exchange next March 12 with 0.32 share of Mitsubishi Materials allotted to 1 share of Mitsubishi Cable.

Mitsubishi Materials held a 36.5 percent stake in Mitsubishi Cable as its top shareholder as of the end of September.

With the equity exchange, Mitsubishi Cable will be delisted from the First Section of the Tokyo Stock Exchange on March 9.

Mitsubishi Cable also said it will reorganize its unprofitable businesses, downsizing its electric wire business for use by auto vehicles.

Due to the business realignment, the company will book special losses of about 4 billion yen on a consolidated basis for fiscal 2009 ending next March.

The company also plans to carry out an early retirement scheme for employees in late June next year.

Bahra Cables Company certified by Underwriters Laboratories



Bahra Cables Company has received the prominent UL certification for its range of Thermoplastic-insulated

wires and Power and Control Tray Cable Type TC.

Receiving UL certification as a trusted resource across the globe for product safety certification and compliance solutions is a major endorsement of Bahra Cables' quality processes. The basic standard used to investigate products in this category is UL 83, 'Thermoplastic-insulated Wires and Cables.'

Benefiting a range of customers - from manufacturers and consumers to regulatory bodies and code officials - Underwriters Laboratories Inc. is testing products for public safety for more than a century.

Diamond Power Infrastructure secures large orders

Diamond Power Infrastructure had setup a high voltage cables plant with a capacity to make 2800 kms per annum upto 132 kv voltage class in Savli, Vadodara in June 2008. During the last 12 months, the company has executed various prestigious orders from this plant.

The company is pleased to announce the receipt of its largest order ever in the High Voltage Class, wherein the company has to supply 300 kms of 33 KV Class power cables.

The company has invested in its subsidiary, Diamond Power Transformers to manufacture Power Transformers. The company is pleased to inform the receipt of 14 Nos of 220 KV class Power Transformers.

With the receipt of these orders the company's order book position stands at Rs 1050 crores.

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We are KEI, Wires and Cables specialist

Control and Instrumentation Cables
House Wires and Stainless Steel Wires
High and Low Tension Cables (EHT, HT & LT)

Speciality cables including Braided Cables, Fire Survival and Zero Halogen Cables

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Nexans secures 35 million euros submarine power cable project for the French island of La Réunion

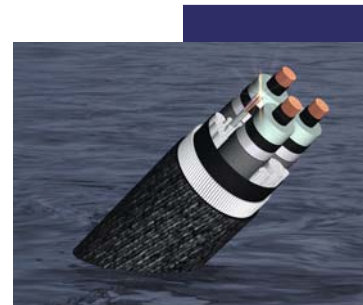
Nexans has been awarded a 35 million euros turnkey contract by EDF to construct a new submarine power cable for the French island of La Réunion in the Indian Ocean. The cable link will take a subsea route along the coast to connect the power production area located at Le Port in the West of the island to the capital city of Saint-Denis which requires much of the energy. By choosing this subsea cable route, the construction of 20 km of aerial power lines across a natural environment made of rugged, steep and mountainous terrain was avoided.

Nexans is manufacturing two 90 kV subsea XLPE cables, each 17.3 km in length, to provide a power

link of around 100 MW. Each cable will include three phases with copper conductor cross-sections of 400 mm², resulting in a weight of 60 kg per metre - a total of 2.000 tonnes of cable.

Nexans is providing a complete turnkey service for EDF including design and manufacturing of the cable, as well as laying and protection. The cable will be delivered and installed at a water depth attaining 100 metres.

The La Réunion cables will be assembled in the specialized Nexans facility in Halden, Norway and will incorporate fibre optic monitoring and control elements supplied by the Rognan plant, North of Norway.



Nexans' core HV cable 280

Olex lands A\$43 million contract for desal plant



A Melbourne company has been awarded a A\$43 million deal to supply power cable to the state's controversial desalination plant at Wonthaggi, south-east of the state capital.

Tottenham-based Olex will supply high-voltage alternating current power cable for the project's 87-kilometre underground power supply.

Industry and Trade minister Martin Pakula says the A\$3.5 billion desalination project is providing downstream manufacturing contracts and jobs as well as se-

curing the state's water supplies.

The plant has been bitterly opposed by environmental groups and some local residents who say the government should be recycling billions of litres of waste water pumped into the sea south-east of Melbourne.

Mr Pakula said the government had responded to community concerns about overhead power supply for the desal plant by placing power cables underground.

Olex will supply about 225km of the total 260km of copper cable required, with the remaining 35km coming from Belgium.

Mr Pakula said the project was expected to create 4,750 full-time equivalent jobs during construction and 150 full-time equivalent jobs to support the continuing operation, maintenance and servicing of the plant.

Prysmian secures new optical frame contract with Kabel Deutschland for 2009/2010

Prysmian Germany announces a new contract to supply fibre optical cables to Kabel Deutschland (KDG), Germany's largest CaTV operator. The contract, which became effective on October 1st, will see Prysmian supply a wide range of optical cables into the KDG network over the next year, covering a range of fibre counts from 12 up to 216. The cables will be used by KDG in the ongoing enhancement of its infrastructure, providing fibre to the building (FTTB) and thus allowing the improved delivery of broadband services to its growing customer base.

Nexans develops specialized cable for sensors monitoring landslide risk areas



Nexans has developed a new specialized cable to provide a high-performance, reliable, easy to install and low environmental impact method of connection for a new generation of sensors that will provide an early warning system for areas of the world at risk of landslides.

The development program has been carried out by Cabloswiss, a Nexans company based in Trezzano Rosa, near Milan, Italy, in collaboration with the Polytechnic of Milan as part of the PROMETEO (Public Protection: Methodologies and operational technologies) project.

The Nexans sensor cables are currently being field tested in a continuous monitoring system on Monte San Martino, overlooking the city of Lecco, the site of a previous landslide that caused deaths and serious damage. The monitoring system is connected by radio to an operations centre at the Polo Regionale di Lecco of Milan Polytechnic, where the data is processed to provide valuable information regarding the condition of the cliff and how it is changing over time, this will then be used to predict the possible risk of landslide to provide an early warning.

A special cable for an innovative project

To network the sensors, Cabloswiss developed a specialized cable to meet all the requirements of a system installed

in an inaccessible area and subjected to extreme environmental conditions. The cable, which has to be small in size for easy installation and reduced environmental impact, has two elements, each of which comprises two conductors: the first element ensures low capacitance and optimal impedance for high frequency data transmission (at speeds of up to 500 kbit/s over 100 meters); the second element consists of a pair of power conductors, with a very low voltage drop to minimize energy losses.

The cable also offers a high degree of protection against electric shocks, thanks to double shielding, and excellent resistance to extreme weather conditions (temperatures of -40°C) and UV light, which is guaranteed by a special formulation of the PVC insulating compound.

Head-to-head test demonstrates superior electrical performance of 10Gain® XP in new video

A newly released video that puts the new 10Gain® XP (CAT 6A UTP) cable in a real-time head-to-head alien crosstalk performance test against a shielded cable and competitor CAT 6A UTP cable has been released by Superior Essex.

Tests show the 10Gain XP CAT 6A cable has alien crosstalk performance similar to that of an overall shielded CAT 6A cable, and electrical performance that is far superior to that of typical CAT 6A UTP cables.

10Gain XP CAT 6A cable meets the technical requirements of a UTP cable and is designed specifically for unshielded cabling networks. Additionally, 10Gain XP is

compact in size - only 0.30 in diameter, making it a better option for installations with limited space than a typical UTP cable.

"10Gain XP is designed with a foil tape, with breaks or gaps, that surround the cable core. Gaps like this are distributed throughout, and prevent electrical continuity along the length of the cable," explains Tim Waldner, senior vice president, marketing and product development. "While not technically a shielded cable, 10Gain XP does an amazing job of isolating the cable from outside electromagnetic interference. The end result is a CAT 6A UTP cable that

performs like a shielded cable, but without the need for grounding or bonding."

In the video, the tests are demonstrated using three 100-meter 2-cable bundles, each with a victim and disturber cable. The tests were conducted in accordance with industry accepted procedures, with the exception of a reduced number of pairs under test so that the tests could be performed in real-time.

10Gain XP Cat 6A cable is a key component of the NextLAN Cat 6A AXI cabling system, which comprises Cat 6A connectivity from Leviton and cable from Superior Essex.

Houston Wire & Cable Company in Forbes' Top 200 Best Small Companies for the third consecutive year



Houston Wire & Cable Company announced it was included in Forbes' 200 Best Small Companies in America for 2009.

In addition to stock price performance versus peers, the

ranking is based upon return on equity, sales growth and profit growth over the prior twelve month and five year period. HWCC maintained 3rd place in the important 5-year average return on equity category.

"This three-peat inclusion in the Forbes' ranking is a reflection of HWCC's long-term focus on key customer and financial objectives. We have maintained

a strong position in this difficult economy. We also recognize the support of our customers, suppliers and advisors, as without their partnerships, this success would not be possible.

"And lastly, a very special thanks to all HWCC team members for their commitment to excellence in all facets of our business," said Chuck Sorrentino, President & CEO.

Draka expands subsea power solutions for offshore wind; oil & gas markets



Draka announced recently the expansion of their subsea power manufacturing capabilities for the offshore wind energy, oil & gas, and subsea power distribution markets. Draka has expanded its production capabilities to manufacture medium voltage XLPE power cables up to 36kV at its factory located in Drammen, Norway.

Draka has been delivering subsea power cables to the oil and gas sector for close to 30 years and this new investment in expanded capabilities demonstrates Draka's commitment to being a market leader in this area. "Our close relationship with the market has enabled us to see the growing power requirements for deepwater oil

exploration," stated Endre Espeseth, vice president - Draka Offshore. "Our expanded capabilities better enable us to supply the increased power and communication needs in umbilical and platform-to-platform operations for the oil and gas market."

Complete Power Solution for Offshore Wind

With the rapid global expansion of offshore wind farms, customers are expecting turnkey solutions from their vendors. In Draka's case, the company has a global team of engineers that can assist in the design and management of large projects. "Not only have we expanded our manufacturing capabilities, we also offer a com-

plete power solution for offshore wind," added Martin Dale, commercial director of subsea cables for Draka. "Our complete power solution now includes design, accessories, accessory installation, circuit testing and commissioning, even installation services when required which help make project management and field management for our customers more efficient than trying to coordinate several vendors and installers."

Draka has a long history of providing the market with cable engineering solutions that meet demanding market needs. "This is just one more example of Draka's focus on working with customers to solve their cabling needs," stated Endre Espeseth. "We focus on delivering highly engineered solutions that help us build long-term relationships in the energy market."

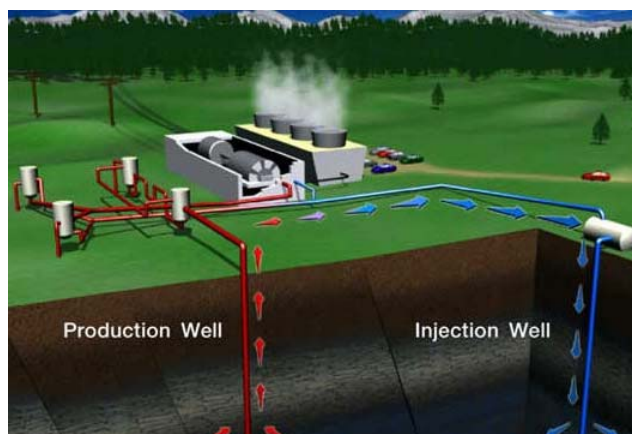
Draka Cableteq USA secures US\$3.2 million grant from DOE to develop next generation downhole cable

Draka Cableteq USA has announced that it has received a US\$3.2 million grant from the United States Department of Energy to support the development of a new generation of tools that will allow Enhanced Geothermal Systems (EGS) to supply the United States with much clean, carbon-neutral electrical power.

EGS uses water injected deep into the earth to generate steam to run electrical turbines. One EGS power plant has the potential to generate power equivalent to more than 40 wind turbines or a coal-fired plant. The DOE has set a goal of generating 20% of the US electrical power by 2010 via geothermal sources. It is anticipated that this will be accomplished by establishing EGS plants in as many as 20 states.

Under the EGS award program, Draka will develop and bring to market high temperature 374°C (705°F) hydrogen-insensitive fiber optic cable for distributed temperature and pressure sensing throughout the wellbore and high temperature electrical cable for running pumps, sensors and tools deep inside the well. Insulated wire and glass fiber cables are a crucial enabling technology for EGS. Without wire and fiber, downhole tools such as temperature and pressure sensors cannot communicate with the

surface. However, high temperatures and formation of hydrogen within the well makes the use of insulated conductors problematic and also results in the rapid degradation of glass fiber. There is currently no cable that can operate in a well hotter than 300°C for a period greater than a few days.



5,000 km of cables for the largest cruise ship ever, "Oasis of the Seas"

"Oasis of the Seas", the largest and most revolutionary cruise liner in history, built by the international shipbuilding group STX Europe for Royal Caribbean Cruises Ltd., has been unveiled in Florida, USA. Prysmian Cables & Systems has been the only supplier of approximately 5,000 km of energy and telecommunications shipboard cables.

Furthermore, Prysmian has been awarded by STX Europe another contract for the delivery of 100% of the marine cables to be installed on the "Oasis of the Seas" sister ship, "Allure of the Seas", owned and operated by Royal Caribbean, as well. "Allure of the Seas" is currently being built at STX Europe's

shipyards in Turku, Finland. The new agreement, which represents the second step of the GENESIS Cruise Vessel project, covers the supply of power and telecommunication cables for a total value of approximately 4.5 million Euros. Most of the supplied cables are manufactured at Prysmian's Pikkala facility in Finland, but also in Italy and Germany.

With a 360 meters length, a 47 m breadth, 16 decks and a 220,000 t gross tonnage, the GENESIS vessels have a capacity of 5,400 passengers and over 3,000 crew, each. "Oasis of the Seas" will start sailing

in December 2009 and "Allure of the Seas" will set out to sea in the summer of 2010. The ships are 40% bigger than the largest cruise liner series currently existing: the Royal Caribbean's Freedom class cruisers, again with Prysmian as cables supplier.





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the Power
of Dow Inside



WHEN IT'S YOUR JOB TO GET THEM TO THE PODIUM.

With the whole world watching, who's responsible for lighting the arenas where champions compete? That's your job.

With the power of **DOW INSIDE** you can count on reliability and long cable life based on exceptional materials, dedicated R&D, deep industry knowledge, and close working relationships with cable manufacturers and utilities alike. And, with the **DOW ENDURANCE™** family of products from Dow Wire & Cable for MV, HV and EHV cables, you can now specify cables that exceed industry performance standards and are built to last for decades of service.

That's the confidence you need when it's your job to keep the power on.

The best cable in the world has the power of Dow Inside.



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3M introduces three new lubricants to protect cable during installation



Three new lubricants introduced by the 3M Communication Markets Division are designed to help communication service providers protect their investment when pulling cable. 3M Concentrated Multi-Purpose Cable Lubricant, 3M Multi-Purpose Gel Cable Lubricant and 3M Multi-Purpose Liquid Cable Lubricant offer superior friction reduction and easy application when used on cable during installation.

3M Concentrated Multi-Purpose Cable Lubricant is designed for fiber, copper and coaxial cables types. The lubricant provides immediate tension reduction that lasts even after it has dried, reducing the need to re-apply, boosting productivity and curbing costs. It is also highly concentrated, so less lubricant is required than standard lubricants. The concentrated lubricant is available in three forms - a spray,

a wipe and a pourable liquid - to provide the most efficient application for each situation. Wipes and spray applications are well suited for category 6 cables and vertical cable jobs.

3M Multi-Purpose Gel Cable Lubricant is a high-performance, thick, silicone gel containing microspheres, which offer added friction reduction. 3M Multi-Purpose Gel lubricant is a high viscosity lubricant designed for heavier cable jackets for both inside and outside environments. 3M Multi-Purpose Liquid Cable Lubricant's is a low viscosity lubricant that is formulated for longer cable pulls. It is designed for fiber, copper and coaxial cable types. Both lubricants are designed to dry slowly, reducing the need to re-apply.

All three of the new cable lubricants from 3M are compatible with commonly used communication cable jackets, so one product can be used for a variety of cable pulling jobs. The lubricants are non-staining, non-hazardous and easy to clean off. They are designed to apply evenly in order to provide consistent lubrication and superior friction reduction.

NHI launches new cable management system

National Heaters Industries (NHI), part of the Omzest Group of companies in Oman, and manufacturers of the Hotex brand of water heaters, recently launched its new cable management system aimed at the construction industry.

Trunking and Trays is the cable management system for electrical cables being manufactured by NHI at its facility in Rusayl.

The cable management system has been designed to meet the standards of the construction and electrical industries in the sultanate and its range of products include - cable trays, ladder trays, trunking and accessories of various dimensions, a statement said.

NHI has appointed Oman-based Al Manawir Trading, a major firm in the area of trading and manufacturing of LV switchgear, as the exclusive distributor of the Trunking and Trays cable management system.

THE CABLE DIRECTORY

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OKI Electric Cable launches VEYOR-CABLE™ smooth-sliding parallel robot cables

OKI Electric Cable has announced the launch of VEYOR-CABLE™ parallel robot cables, which enable various high-flex robot cables to be combined and bonded to meet specific customer requirements.

When high-flex robot cables are used on industrial machines, such as in factory automation, the purpose is to support repetitive operation. Normally, a number of cables and air tubes are stored in the cable veyor. There were problems when wiring cables one by one as it sometimes led to low productivity, incorrect wiring and low bending performance. In order to solve these problems, individual cables needed to be adhered closely to maintain their durability. Moreover, each cable needed to be adhered; however the use of durable and flexible adhesion

to maintain the original sliding characteristics of the individual cable was difficult.

The company has successfully launched bonded-type parallel robot cables as commercial products utilizing its proprietary parallel processing technology. VEYOR-CABLE parallel robot cables offer both excellent flexibility and toughness (durability against sliding sufficient to withstand more than 50 million bending cycles² as verified by in-house testing) by incorporating an engineering-plastic-based elastomer adhesive for bridged bonding of cable sheaths. This ensures superb flexibility and secure adhesion, which in turn permits the parallel configuration of cables that have different external diameters, as well as air tubes, PCV-sheath cables, and urethane cables made of differ-

ent materials. The resulting range of potential products meets a broad range of customer needs.



VEYOR-CABLE™

ITT's field-attachable packer feedthru system eliminates need to splice downhole cables



ITT Interconnect Solutions has developed a new field-attachable packer feedthru system. Providing a faster method of passing power cables through packers, ITT ICS' BIW designed the packer feedthru system with a field-attachable feedthru connector, a mating attachable cable connector, a cross-over adapter and accompanying hardware.

"Our new innovative packer feedthru system allows the connector to be installed on the top side of a packer using a cross-over adapter, eliminating the need to splice downhole cables," said Keith Teichmann, director of marketing for ITT Interconnect Solutions. "This in turn eliminates any potential stress on the cable, as the packer feedthru system includes a completely variable threaded adjustment system."

The variable threaded system allows vertical adjustment of up to three inches (76mm). It's also possible to install the termination contacts on the cable conductors be-

fore the cable is passed through the packer, potentially reducing the amount of work an installer is required to carry out in a vertical position over an open well.

The field-attachable packer feedthru system has a maximum diameter of 2.6 inches (66.04mm). Length above the packer with a round cable ranges from 26.4 to 29.5 inches (672mm to 748mm), while length with a flat cable ranges from 30.4 to 33.4 inches (772mm to 848mm). Voltage rating is to 5,000VAC, with current to 140A and pressure to 5,000psig. Maximum conductor temperature is 175°C (350°F).

Nexans launches MOTIONLINE™ for automation cable solutions



Motionline IIIu



Nexans' Schleppekette

Nexans has launched MOTIONLINE™ as its new brand identity that reflects the dynamic capabilities of its comprehensive family of cable solutions targeted at demanding automation installations where cables are in motion. The new brand makes its debut at SPS/IPC/DRIVES 2009, the exhibition for electric automation.

The challenge of dynamic conditions and harsh manufacturing environments

Automation installations present a particular challenge for cables, since they must ensure reliable transmission of data and control signals and/or secure power supplies while subjected to extreme dynamic loadings. Nexans has a wealth of experience in working with global automation system manufacturers and their harness suppliers to provide cables tailor-made to meet the specific needs of customers across a wide variety of industries, especially for machine tools, specialized industrial machinery and robots. These ca-

bles not only have to withstand the harsh manufacturing environment, they must comply with international standards and deliver safe, reliable and cost-effective performance.

Wide product scope and global service

Nexans offers a very wide scope of cable products for automation, including chain cables, servo motor cables, encoder, control and bus cables as well as special cables for robotics. This scope has been further extended with the acquisition, a few years ago, of Cabloswiss and Intercond that enable Nexans to offer a complete global service for automation cables.

Nexans has now brought all its automation cable solutions together under the MOTIONLINE™ branding that emphasizes its total service capability for everything from miniature control cables to state-of-the-art industrial Profinet cables, as well as discrete power cables. The new brand also covers hybrid cables that meet the demands of decentralized control systems by combining power and signal cores within a single cable.

Testing and R&D - a pathfinder for industry standards

The key to Nexans' success in establishing its leadership position in the automation sector is its major focus on testing and R&D. This is founded on substantial investment in the dedicated Automation Application Centre (AAC), which is part of the Nexans Research Centre. This facility, unique in the industry, enables cables to be exposed to dynamic operating loads that simulate realistic, in-service, conditions, thus ensuring that they offer the ideal combination of bending, tension and torsional strength required for their intended application.

New cable materials

These intensive R&D efforts have

established Nexans as the pathfinder for industry standards such as Profibus and ASI. The company is also pioneering innovative developments in cable materials. This ensures that MOTIONLINE™ conductor and insulation materials provide the fire and heat resistance demanded for safety and performance, as well as offering the resistance to attack by oils and other chemicals essential for a long service life.

Important new material technologies developed by Nexans include the outstanding TPM (Thermoplastic Modified) insulation as well as the new flame retardant PUR Medoxprotect-S jacket material. The very latest example is a new generation of servo motor cables designed for extreme dynamic loads such as a maximum speed of 300 meters per minute and an acceleration ten times higher than for the previous standard servo cable.

Future challenges

Nexans believes that the main customer challenges for the future will result from an even greater emphasis on cable reliability, while machinery becomes ever more demanding with higher speeds and levels of acceleration. Nexans is already responding with further investment in new testing facilities and will shortly expand the MOTIONLINE™ family with a new range of cables developed specifically for higher dynamic loads - including the servo motor cables mentioned above. This range will also include a new bus cable, optimized for challenging conditions that will also reflect the industry trend for increased data transmission rates by transmitting digital signals at up to 100 Mbps.

International standards

MOTIONLINE™ cables conform to all major international safety standards, such as German (VDE), Canadian (CSA), American (ANSI), Chinese (CCC) and UL worldwide.

Habia announces new SeaGuard naval cable range



Lightweight and small size, the SeaGuard range of wires and cables from Habia Cable have been designed and approved for use in naval defence cable applications.

SeaGuard and SeaGuard DS cables include low smoke, zero halogen (LSOH) and flame retardant wires and cables that enhance performance and are oil and water resistant. Limited fire hazard materials meet a wide range of international fire tests and as such SeaGuard is approved by many Naval Authorities around the world.

Habia Cable is a leading International manufacturer of special wire & cable, active in many national naval programmes such as the Type 45 destroyer and Astute submarine for the UK Royal Navy, the Visby stealth corvette for the Swedish Royal Navy and the FREMM frigates for the French Navy. Habia Cable also supply hybrid custom designed cables to many naval applications including combat systems management, weapon and control systems, radar, sonar, communications and degaussing systems, electronic warfare and cables to meet EMC requirements.

The SeaGuard DS range includes power, control and instrumentation cables, coaxial cables and hybrid, custom design UK Defence Standard approved wires and cables using our HFI 140 and HFX 107XL materials.

SeaGuard is able to offer substantial savings in both weight and size. Comparisons have been made against various standard marine cables (e.g. DIN and VG) and US Mil Spec naval cables, and it has been proven that Habia can, by using thin wall materials, reduce both weight and size by up to 50% depending on the cable design and construction.

Our problem solving cable design expertise means listening and understanding our customers' requirements for their defence cables.

Initial field assessment is fed directly into Habia's design facility where we balance specific requirements of size, weight, technical and environmental demands to provide a solution 'fit for purpose'.

SeaGuard wires and cables are available for purchase now.

ACAL Technology expands fibre-optic capability with new product ranges

ACAL Technology has extended its Fibre-optic cable assembly service and inventory with the introduction of new fibre-optic connectors from Amphenol and a broader range of fibre-optic connectors from Tyco Electronics. The new products allow ACAL additional flexibility to support customers throughout their fibre-optic design cycle, from consultancy during the initial concept and design, through to fibre-optic connector and cable assembly, product training and on-site termination.

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The new Amphenol connectors are the Hermaphroditic Duplex Miniature (HDM) series which feature a square flange receptacle and are available in single- and multi-mode versions. The second Amphenol part to be added to the ACAL range is the HMA Two series of fibre-optic lens connectors which support daisy-chaining of identical connectors and are interchangeable with equivalent connectors from other manufacturers. Intended for use in harsh environments, both Amphenol connectors simplify assembly by eliminating the need to use in-line adapters, or to polarise fibre-optic assemblies, and include features which enable easy in-situ cleaning.

Amphenol - Dedicated product range caters for solar energy applications

A range of products has been introduced, by interconnect specialist Amphenol Industrial Operations, to cater for all segments of solar energy, including crystalline silicon PV, thin-film PV, concentrated solar power or solar thermal power generation. Whether the requirement is for connectors, cable, cable assemblies, or junction boxes, Amphenol has the solution, says the company.

The new range includes a selection of cost effective, high reliability products with low power loss. It includes Amphoton solar junction boxes, Helios solar cable, and Helios H4 solar connectors.

The Amphoton line of junction box assemblies for solar modules has 13 box models and endless pole / diode configurations. When

paired with PoweLink or ArmorLink cables and Helios H4 connectors the company can meet any requirement for both crystalline silicon and thin-film applications.

The Helios solar cable is designed for maximum Powerstax EFFICIENCY and durability. The high-performance double-insulated PV cable meets UL4703 and TUV 2 PfG 1169 and features fine-stranded tin-plated copper conductor with cross-linked high temperature polymer jackets. There is a choice of standard jacketed Power-Link cable or Armor-Link which features a rugged, reinforced, rodent-resistant jacket.

The Helios H4 connector is seen as the premiere solar connector in the market today. It carries more current, has a higher IP rating, and

is fully intermatable with the industry standard connector. It meets the NEC 2008 standard 'as is' no additional components are required. It is available in three different gauges, 36A (2.5mm², AWG14), 45A (4.0mm², AWG12), 52A (6.0mm², AWG10), says the company.



Helios H4

Dow Wire & Cable introduces DOW ENDURANCE™

Long-lasting and reliable power cables that can help provide years of uninterrupted service, no matter what energy resource, are the lifeblood of utilities globally. Dow Wire & Cable, a business unit of The Dow Chemical Company, is excited to introduce the DOW ENDURANCE™ family of semiconductive and insulation materials for medium voltage (MV), high voltage (HV) and extra-high voltage (EHV) cable constructions that are made to last for decades of service.

"Providing a cable that delivers longevity and reliability is essential in today's global energy landscape," says Tim Laughlin, General Manager, Dow Wire & Cable. "When it's your job to keep the power on, we feel that the best way to obtain that is to specify cables made according to high quality standards with branded materials from supplier and cable manufacturer sources you can trust."

DOW ENDURANCE comprises

Dow Wire & Cable's heritage line of MV, HV and EHV materials with proven performance over the last two decades. DOW ENDURANCE MV 4202 has recently celebrated its 25th anniversary of underground (UG) cable installation showing little to no wear in that time frame. Based on those results, life expectancy is estimated to be at least 40 years. Similarly, DOW ENDURANCE HV and EHV materials have been used globally for cables ranging from 69 kV to 500 kV for over 10 years.

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Flexicon enhances range of compression fittings



Flexicon has introduced what it claims is the most liquid-tight conduit system in the UK, by enhancing its range of compression fittings. The system has an IP rating of IP69k, meaning it can be steam cleaned by a high-pressure, high-temperature jet wash.

It is suitable for equipment that needs regular intensive cleaning such as in food processing. The compression fittings are suitable for the company's LTP galvanised-steel plastic-coated liquid-tight range and also for its LPC smooth spiral reinforced PVC system.

They include a multipart compression fitting with a nylon seal, which can also be used for

knockout or threaded entries as it rotates until tightened. Also available are compression fittings that swivel about the main body even after tightening and a multipart compression coupler that includes seals for joining two conduits.

These fittings can be used with conduit sizes ranging from 10 to 63mm and are available with metric, PG and NPT thread variants. The LTP conduit range has a smooth, wipe-clean outer cover and is resistant to oils and greases and UV light for external applications.

For applications requiring a wide temperature range, the LTPHC variant can be used for temperatures between -45C to +135C. The LPC spiral-reinforced PVC range is a non-metallic alternative and can accept some torsional movement.

Colour-coded versions provide oil resistance (green), high flexibility (orange) or protection against wider temperature ranges of between -5C and +90C (blue). The range is a lighter weight than metallic versions and is faster to install, particularly when cutting to length. The range can also be used with non-metallic or stainless-steel fittings, making it ideal for the food-processing industry.



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Molex announces iPass+ HSC CXP active optical and passive copper cables

Molex has introduced the iPass+ High-Speed Channel (HSC) pluggable CXP copper and optical interconnect system, designed to enable 12 channels of 10-Gbps data for up to 120 Gbps of total bandwidth. The iPass+ CXP provides both optical and copper direct attach options for the same system port, thereby increasing the flexibility of system-level hardware for end users, Molex says. This dual paddle-card system was adopted as the InfiniBand Architecture Specification Vol. 2 Release 1.2.1; Annex A6 in September 2009.

The unitary press-fit connector and cage assembly provides one-step placement to the host board and is offered in both single and stacked dual-port configurations. The copper versions are the first to hit the market. The Molex CXP 12X direct attach copper cables are designed to accommodate single,

ganged, or stacked connector configurations in extremely high-density requirements. The CXP passive copper cables are available in a variety of lengths.

The active optical cable (AOC) versions of the CXP interconnect, with pluggable optical module cable assemblies and loopbacks, are still in development. Cabling options for CXP optical products will include 24-fiber round OFNP-rated jackets in 3.8- and 5.4-mm diameters filling both shorter rack-to-rack and longer riser cabling requirements. Molex says the round cable construction offers superior fiber management over traditional flat cables for connecting CXP ports. CXP optical cable assemblies for pluggable transceiver applications will use 24-fiber (12 transmit and 12 receive) high-bandwidth OM3 cable using industry-standard MTP/MPO connectors.

Molex says this design meets the InfiniBand bandwidth requirements for CXP modules for lengths up to 300 m (984.25'). Products also include MTP/MPO-to-LC cable assemblies for connections to SFP or LC patch panels. MPO CXP Loopbacks feature a compact housing that loops optical TX to RX ports for testing, burn-in, and field troubleshooting.



S - Miniature board-to-board system offers female on-board connectors

Miniaturization and the trend toward higher density of electronic functions on a substrate have led to the introduction of smaller interconnection systems. In response, RS Components now offers AMP Micro-Match miniature female on-board connectors. With contact spacing at 1.27mm it makes this one of the smallest systems for interconnect between two boards.

Wire connectors are supplied on-tape and they are suitable for mass termination of 28 AWG (0.08mm² to 0.09mm²) ribbon cable using tin-plated contact design. Configurations range from 4-way to 20-way, top and side con-

nection to the PCB, and options for through-hole or surface-mount connectivity to the board. The connector series is UL-recognized: File No. E28476, Vol. 23, Section 4, says the company.

The AMP Micro-Match connector family system offers a range of board and wire connectors, enabling a variety of wire-to-board and board-to-board interconnections. The AMP Micro-Match contact concept is essentially different from other systems available. By its design, the traditional failure mode in tinplated connections, fretting corrosion, is prevented. Due to an additional positioning spring in the female

part, relative movements caused by vibrations / thermal expansion between male and female contacts are absorbed.

By preventing movements on the contact spot, a gas-tight connection can be 'guaranteed' under all circumstances. The contact spring is located in the board connector and not in the cable connector, which is usually the case. The counterpart, incorporated in the cable connector, is a simple pin, either with an insulation displacement section, suitable for the mass termination of cable or with a kinked solder leg to be soldered onto a PCB, says the company.

Sheikh Hamed bin Zayed and Sheikh Majid bin Mohammed break ground for new Ducab High Voltage Factory

Ducab **دوكاب**
Powering the Region

Under the patronage of H.H. Sheikh Mohammed Bin Rashid, UAE Prime Minister and Vice-President, and Ruler of Dubai, H.H. Sheikh Hamed bin Zayed Al Nahyan, Chief of the Abu Dhabi Crown Prince's Court and Chairman of the Higher Corporation of Specialized Economic Zones (ZonesCorp), and H.H. Sheikh Majid Bin Mohammed Bin Rashid Al Maktoum, Chairman of Dubai Culture and Arts Authority, broke ground for Ducab's new High Voltage Factory, in a ceremony held on November 24th at the Ducab head office and factory in Jebel Ali.

The ceremony was in honour of Ducab's 30th anniversary of operations in the UAE and was attended by H.E. Saeed Al Tayer, Managing Director & CEO of DEWA, and H.E. Eng. Ahmed Al Mureikhi, Representative from ADWEA.

Ducab managers, business partners and key media representatives were also present at the event. The new factory will be Ducab's sixth plant, catering to

high-voltage and extra high-voltage projects already planned by ADWEA and DEWA as well as projects around the region.

Along with the ground breaking of the new factory, the company also officially launched the Ducab Special Cable Unit (SCU). This new unit significantly expands Ducab's capacity for specialised cables suitable for oil and gas projects in the region.

The AED 500 million Ducab-HV factory is already underway and commercial operations will commence in late 2010. It will manufacture cable systems in the voltage range 66kV (66,000 Volts) to 400kV (400,000 Volts) covering the highest voltage currently used in the GCC. With a total built up area of 22,000m² on a site plot of 50,000m² at the Ducab Jebel Ali site, the factory will be the first dedicated high voltage facility in the region and will have a manufacturing capability of 30,000 Tonnes per year of cable in the range 66kV to 400kV and conductor sizes from 300sqmm to 2500sqmm.



Rio Tinto completes sale of Alcan Composites

Rio Tinto has completed the sale of Alcan Composites, part of the Alcan Engineered Products division, to Schweiter Technologies for a total consideration of US\$349 million.

Since February 2008, Rio Tinto has announced asset sales of US\$8.3 billion. In addition, Rio Tinto received a binding offer from Amcor in August 2009 for US\$2.025 billion for Alcan Packaging global pharmaceuticals, global tobacco, food Europe and food Asia divisions.

During 2008, Rio Tinto completed divestments totalling US\$3.1 billion. During 2009, Rio Tinto has agreed asset sales of US\$5.2 billion. As well as Alcan Composites, these transactions include Ningxia (aluminium), Potasio Rio Colorado (potash), Corumbá (iron ore), Jacobs Ranch (coal), Alcan Packaging Food Americas, Maules Creek (Coal & Allied) and the Cloud Peak IPO (coal).

In an unrelated transaction, the proposed sale of 56 per cent of the Alcan Engineered Products Cable division for an undisclosed sum to Platinum Equity, announced on 14 September, will not be completed as the sale has been terminated in accordance with the terms of the sale and purchase agreement.

**RIO
TINTO**

Kabelschlepp cable carriers reduce ESD risk



Due to their low surface resistance, the ESD cable carriers from Kabelschlepp significantly reduce the risk of ESD. This applies in the processing industry and in all other environments where building up of static electricity resulting in sparks through electric discharge needs to be avoided.

The material used in the ESD cable carriers incorporates carbon

nanotubes (Baytubes from Bayer MaterialScience).

Carbon nanotubes are microscopically small tubular particles made of carbon. The carbon atoms form a honeycomb-like structure.

The electrical conductivity of such nanotubes is increased due to the graphite structure on the surface of the material created by the carbon nanotubes as a functional

additive.

The ESD cable carriers are therefore even more conductive and with a surface resistance of 105ohms, exceed the requirements imposed by ESD standard (DIN EN 61340).

Due to the large specific surface and the even distribution of the carbon nanotubes in the carrier material, good conductivity is achieved at the contact points between the chain links and over the entire length of the carrier.

As a consequence of modifying the fibre-reinforced material with nanotubes, the stability of the cable carriers also increases.

Hawke International gains American Bureau of Shipping type approval

Hawke International has achieved type approval from the American Bureau of Shipping (ABS) for their complete range of hazardous area cable glands for use in marine applications.

This approval covers electrical equipment for use in areas where the presence of gas or dust creates a potential for explosions and it is in addition to existing certification from international authorities including BASEEFA, GOST, UL, CEPUL and CSA. It will provide users with additional reassurance when selecting Hawke International's cable glands for use in ABS listed offshore oil and gas installations and FPSO vessels.

Cooper Industries announces acquisition of Pauluhn Electric

Cooper Industries has announced the acquisition of Texas-based Pauluhn Electric from Federal Signal Corporation. Pauluhn Electric is a leading provider of specialized marine, offshore and industrial lighting and connecting product solutions for harsh and hazardous locations and corrosive environments. Terms of the transaction were not disclosed.

"The acquisition of Pauluhn Electric complements our global-leading Cooper Crouse-Hinds' harsh and hazardous product offering and enables us to continue to provide our customers with increasingly comprehensive, highly-specified solutions that enhance safety and productivity in demanding environments around the world," said Cooper Industries Chairman and Chief Executive Officer Kirk S. Hachigian. "Pauluhn has a strong reputation for innovative

products and excellent quality and this acquisition further extends Crouse-Hinds' access to several key end markets, including marine, mining and offshore drilling. Additionally, Crouse-Hinds' global-leading market position and extensive distribution channel provides a great opportunity to expand Pauluhn's offering to additional harsh and hazardous locations worldwide."



Arrow Electronics to acquire A.E. Petsche company

Arrow Electronics has announced an agreement to acquire A.E. Petsche including specialty wire, cable and harness management solutions, to the aerospace and defense markets.

"With this acquisition, A.E. Petsche will expand Arrow's product offering in specialty wire and cable and will greatly increase our presence in the aerospace and defense markets," said Peter T. Kong, president of Arrow Global Components. "This strategic transaction will add to the breadth of Arrow's customer base and increase our staff of highly experienced

sales professionals, while allowing for a variety of cross-selling opportunities with our existing business as well as other emerging markets."

"We believe A.E. Petsche will further benefit from Arrow's considerable global scale, vast customer base, and strong financial resources," said Glenn Davidson, chief executive officer of A.E. Petsche. "As a result of this transaction, both Arrow and A.E. Petsche will strengthen their product portfolio in the aerospace and defense markets."

It is expected that the deal will close by the end of 2009.

Aluminum Association opposes duty-free importation of aluminium stranded wires and cables

Aluminum Association leaders have appeared at a public hearing before U.S. Trade Representative GSP 2009 Annual Review for Products to state their opposition to a petition filed on behalf of Apar Industries to allow duty-free importation from India on aluminium stranded wires and cables.

Aluminum Association was represented at the hearing by Mike Fancher, Marketing Manager, Alcan Cable, Atlanta, Georgia and Keith Gregston, President and General Manager, Noranda, Aluminum Inc., New Madrid, Missouri.

According to comments made by Fancher there is a sufficient North American capacity to meet foreseeable demand for ACSR cable. In addition, a favorable ruling for Apar Inc. under Generalized System of Preferences (GSP) would further invite other countries to participate in the U.S. ACSR market, while these

countries apply duties on their ACSR imports of greater than the U.S. 4.9% rate. Fancher also stated that offshore suppliers entering the market will produce unfavorable environmental effects in relation to Green House Gas (GHG) emissions in that the freight by sea produces such effluents due to the burning of bunker fuel.

Noranda is one of the largest aluminium rod producers in the United States and according to comments made by Gregston, any reduction in production and sale by Noranda's downstream customers, who are making this product, would have a direct economic impact on the company's business. Gregston said it would be unmerited to both those trading partners in reciprocal agreements with the United States and to the U.S. aluminium rod and aluminium cable and wire industries to allow this duty-free importation.

Generac announces new industrial dealer in Pacific Northwest



Generac® Power Systems is pleased to announce that D Square Energy Systems, North Bend, Wash., has signed on as a Generac Industrial Power dealer, expanding the reach of Generac in the Pacific Northwest.

As a member of the Generac Industrial Dealer Network, D Square Energy Systems is qualified to provide sales and service for the full Generac product line. This means the D Square Energy Systems staff has completed the required level of sales and service training and factory certification on all Generac products 9,000 kilowatts (kW) and below.

D Square Energy Systems has been a Generac dealer of residential and commercial products for 20 years, elevating it to Elite status, and has expanded its services to offer Generac Industrial Power products, including Modular Power Systems (MPS),

GENERAC

Aggreko invests in specialist delivery vehicles to further improve its operations



Aggreko is investing £520,000 in new specialist delivery vehicles for its Bristol service centre to further improve its operations throughout the south-west. Two Scania 480bhp R series CR19 trucks have been acquired to enable the company to provide fast delivery of temporary

power generators, electrical distribution and temperature control equipment for customers. They will operate out of the company's service centre in Avonmouth.

Robert Wells, area general manager for Aggreko in the south-west, said: "We've made this major investment to enable us to offer an improved and more flexible service for our customers across the region. We previously sub-contracted our haulage requirements,

but having these new vehicles means we can now offer a much faster service for our customers. In addition, we also have our own specially trained drivers and operators who can provide 24/7 delivery, as and when required.

"As the UK moves out of recession and business picks up, we are extremely confident about Aggreko's future in the south-west and by investing in our service centre we are very well placed to meet increased customer demand."

Alcan Cable hosts opening ceremony for its Tianjin aluminium alloy cable manufacturing plant



Alcan Cable has hosted a grand opening ceremony for its recently commissioned aluminium alloy cable manufacturing facility located in Tianjin, People's Republic of China.

Attending the ceremony were prominent Chinese government officials and Alcan Cable Management.

"With localised production capabilities, Alcan Cable can now provide high quality, innovative cable solutions, and outstanding customer service and technical support to our cus-

tomers in China," said Ivan Salamin, General Manager of Alcan (Tianjin) Alloy Products Company. "This undoubtedly represents an important milestone for the development of the Chinese market for our STABILOY(R) products."

The world-class Tianjin Plant is the first production facility wholly owned by Alcan Cable in China. This state-of-the-art manufacturing plant is located in the Tianjin Airport Industrial Park and manufactures the STABILOY(R) brand of aluminium alloy building wire for residential, commercial, institutional, and industrial power construction applications in

the Chinese market.

STABILOY(R) aluminium alloy building wire is a very secure and reliable wiring solution. The aluminium alloy used in the STABILOY(R) product range is produced using the latest technology to manufacture high quality products specifically for electrical feeder conductor applications in residential and commercial buildings. Some of the distinctive features of STABILOY(R) aluminium alloy building wire include its light weight and flexibility, which translate directly into easy installation and cost savings for our customers.

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GE Oil & Gas and Rockson Engineering awarded US\$230 million contract for Nigeria Power Plant



GE imagination at work

GE Oil & Gas, a world leading company in oil and gas equipment and services, in consortium with Rockson Engineering Nigeria, has been awarded a \$230 Million contract by the Federal Government of Nigeria for the installation and commissioning of a dual fired (low pour fuel oil/gas) 150-200MW power plant in Kaduna, Nigeria

The contract will include the design, manufacture, supply and testing of eight (8) gas turbines in the 15-20MW-range. Rockson Engineering Nigeria will supply engineering, balance of plant, erection, commissioning, site works and a 132Kw sub-station.

Daniele Scenarelli, GE Oil & Gas Region Sales Executive for Sub Sa-

haran Africa, said: "GE Oil & Gas technology has been selected due to our proven track-record in delivering large-scale projects of this nature, meeting challenging deadlines and efficiency parameters without compromising on quality. We are delighted to be able to support the development of Nigeria's infrastructure and are committed to continued long-term investment in the country".

Lazarus Angbazo GE President & CEO for East, West and Central Africa said: "This is a significant project as the Government of Nigeria accelerates its efforts to revitalize the country's infrastructure. GE will continue to be a partner in providing optimum solutions across our entire portfolio".

The contract award is in line with GE's 'Country to Company' agreement with the Federal Government of Nigeria which seeks to encourage active collaboration between the two parties in developing critical infrastructure that

will support Nigeria achieve its strategic 2020 Vision plan.

The 'Country to Company' strategy aims at promoting infrastructure projects in oil and gas processing, railway development and rehabilitation, distribution and transportation network, electric power generation, water and wastewater treatment, healthcare, aviation and security systems, leveraging GE's global capabilities in these critical infrastructural areas.

GE has had a long-standing presence in Nigeria in transportation, energy, aviation, healthcare and oil & gas, among other sectors. There are more than 200 GE employees in Nigeria based in offices in Lagos, a GE Oil & Gas Service Center in Port Harcourt and a facility in Onne Port.



Cord WorleyParsons awarded construction services contract for Suncor Energy Services

Suncor Energy has awarded a C\$74.4 million lump sum contract for construction services to Cord WorleyParsons Ltd, the construction division of WorleyParsons Canada Ltd.

The scope of work is for the Firebag 3 well pads and gathering lines associated with this steam assisted gravity drainage facility near Fort McMurray, Alberta. The contract is scheduled for final construction completion in the fourth quarter of 2010.

This new contract is the final stage of the Firebag 3 well

pads and gathering lines project which WorleyParsons commenced as an EPCM contract in 2006. At this time engineering is complete and Cord is fabricating the associated modules under a separate contract.

Commenting on the award, Mr

John Grill, CEO of WorleyParsons, remarked that "this new contract underscores the confidence Suncor has in our construction capabilities in Alberta through Cord WorleyParsons and is a positive indicator of confidence returning to the oil sands energy sector".

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Vnesheconombank, SIBUR Holding, SACE, and Technimont sign Memorandum of Understanding for construction of the largest polypropylene complex in Russia



Vnesheconombank (State Corporation "Bank for Development and Foreign Economic Affairs"), the Russian petrochemical company SIBUR, the Italian export credit insurance agency SACE S.p.A, and the Italian construction and engineering company Technimont S.p.A have announced the signing of a Memorandum of Understanding (MoU) for co-operation in the implementation and financing of the project to construct polypropylene production facilities in Tobolsk (Russia, Tyumen Region). The cost of the project to create a complex with an annual capacity of 500,000 tonnes is estimated at 2 billion US dollars.

The MoU was signed by Vladimir Dmitriev, Chairman of Vnesheconombank, Dmitry Konov, President of SIBUR LLC (management company of SIBUR Holding), Alessandro Castellano, Chief Executive Officer of SACE S.p.A and Fabrizio Di Amato, President of Technimont S.p.A during Dmitry Medvedev's, President of Russian Federation, visit to Italy.

The construction of the polypropylene complex, proposed by SIBUR, is part of the "Strategy for the Development of the Chemical and Petrochemical Industry in Russia for the period up to 2015" supported by Russian Federation Government and Tyumen Region Government.

The implementation of the project during its construction stage will help to create up to 4,500

jobs. The project is focused on improving the efficiency of Russia's natural resources, ecology and environmental protection. It will also provide a boost to industries such as housing and communal services, as well as car manufacturing.

Technimont S.p.A acts as SIBUR's contractor for the design, equipment supply and construction management of one of the two units of the new complex.

Vnesheconombank's financing of the project has been approved by its Supervisory Council with the total amount of the bank's participation planned to be approximately 1.4 billion US dollars. Most of the credit funds will be secured by SACE S.p.A.

Vnesheconombank opened the first credit line of its financing of the project in September 2009.

WorleyParsons and joint venture partners awarded TVA contract for Maintenance and Modification Construction Services

WorleyParsons is pleased to announce that the Tennessee Valley Authority (TVA) Board has approved awarding a contract to G.UB.MK Constructors, a joint venture of WorleyParsons, Williams Plant Services and URS Corporation's Washington Division, for maintenance and modification construction services at TVA's electric generation facilities. These facilities include seven coal-fired plants and all of its hydroelectric facilities located primarily in Tennessee, Kentucky and Alabama, and some work in North Carolina, Virginia and Mississippi. This is a major power *Improve* contract for WorleyParsons, which demonstrates the team's success in long-term asset services and our commitment to work effectively with TVA and our joint venture partners. WorleyParsons' *Improve* offer-

ing focuses on existing plant operations, delivery of major projects, upgrades, improvements and maintenance projects to sustain assets and improvement to our customers' business performance.

"We are pleased that TVA continues to recognize the expertise of G.UB.MK Constructors in effective planning and successful execution of large scale power plant maintenance, modifications, and improvement projects. G.UB.MK is proud to be part of the solutions to industry challenges that our customers face in such difficult economic circumstances using our *Improve* approach and suite of services as a basis" said Mr John Grill, WorleyParsons' Chief Executive Officer.

The contract has a base term of

five years and a total maximum contract value of US \$950 million over the base period.

G.UB.MK Constructors has been working with TVA on similar work since 1991, performing modifications, maintenance and capital improvements on 30 individual boiler plants at six coal-fired power generating stations totaling 7,900 megawatts and all of TVA's hydroelectric facilities. The primary focus of G.UB.MK continues to be a positive working relationship with the TVA Trades & Labor to achieve zero safety incidents, continuous reduction of the cost of modification projects and the return of generating units to service in support of TVA's mission of providing reliable and economic power for its customers throughout the Tennessee Valley region.

Pöyry awarded detail design contract for hydropower plants in Albania

Pöyry has been awarded the detail design contract for the Ashta run-of-river power plants in Albania by Energji Ashta Shpk, a subsidiary of Verbund International. The value of the contract exceeds EUR 2 million.

The Ashta hydropower plants are located on the river Drin in the district of Shkodër in north-western Albania. The project consists of two stages, Ashta I and Ashta II, which are the final steps in a cascade of three existing power plants. The combined design capacity of the Ashta plants is over 50 MW and their forecasted annual energy generation is 230 GWh. Pöyry already performed the conceptual approval and tender design for the Ashta hydropower project.

The detail construction design includes the guideline drawings for the

weir, powerhouses, headrace and tailrace channel and all appurtenant structures, as well as the execution design for the civil construction works. The detail design services shall be completed in April 2012.

Pöyry is a global expert in consulting and engineering. We offer our clients in-depth industry exper-

tise, innovative solutions and lifecycle engagement. Our knowledge extends across hydropower, oil and gas, power and heat, renewable energy, pulp and paper industry, chemical process industry, transportation, water and environment, and construction services. We have about 7000 experts in 49 countries.



*Ashta
run-of-river
power plants*

A-Power, Shenyang Power Group and Amraas International reached agreements on biomass power plants and geothermal project

A-Power Energy Generation Systems, a leading provider of distributed power generation systems in China and a fast-growing manufacturer of wind turbines, and Shenyang Power Group, a subsidiary of A-Power, announced they have signed agreements with Pakistan Amraas International Private Limited on two separate DG projects in Pakistan.

The first project entails the construction and operation of two 25 megawatt (MW) biomass power plants for Amraas. The total value of the contract is estimated to be \$120 million (RMB 816 million). Pursuant to the agreements, A-Power will act as the general contractor overseeing engineering, procure-

ment and construction of this project, and will subcontract certain portions of the project to third parties. Construction is scheduled to commence in 2010. The transaction is expected to receive local government support and be conducted through Buyer's Credit with Amraas acting as the credit subject. A-Power will also assist Amraas in seeking domestic lenders in China to help finance this project.

The second project concerns a geothermal project for the Pakistan Parliament Building (753,480 square feet) between SPG and Amraas International. SPG will act as the general contractor for the engineering, procurement and con-

struction and equipment adjustment for the project, and will subcontract certain portions of the project to third parties. The Pakistan government is expected to provide the funding for the project. Detailed terms and conditions are not disclosed.

This signing ceremony has received high-level attention from government and business parties in both China and Pakistan. Delegates attending the signing ceremony included Shenyang Municipal Deputy Secretary General Mr. Shaoqing Gu, Pakistan's National Social Security Committee Chairman Mr. Raees Mehboob Ahmad, A-Power CEO Mr. Jinxiang Lu and Amraas CEO Mr. Samir Ahmad.

Uhde announces new contract for a Fertiliser Complex in Abu Dhabi

Uhde



ThyssenKrupp

SAMSUNG

Samsung Engineering Co., Ltd., Seoul has commissioned Uhde to provide extensive licensing, engineering and supply services within the scope of a large plant contract which Ruwais Fertilizer Industries (FERTIL) from Abu Dhabi has awarded the South Korean company. Samsung Engineering is designing and constructing a new turnkey ammonia and urea plant, worth approximately US\$ 1.2 billion, for FERTIL in Ruwais in the emirate of Abu Dhabi on the Arabian Gulf. The fertiliser complex (FERTIL II), which has a production capacity of 2,000 tpd ammonia and 3,500 tpd urea, is scheduled to be commissioned in 2013.

The Uhde proprietary ammonia process will be used in the ammonia plant whilst the urea plant will operate using the Stamicarbon synthesis process from the Nether-

lands. The licence for the urea granulation comes from Uhde Fertilizer Technology in the Netherlands, which took over the exclusive licensing rights to the fluidised bed granulation process from Yara Fertilizer Technology in 2005. All processes selected are particularly eco-friendly and conform to high local and European standards.

The scope of the Uhde contract covers the process licence, substantial parts of the design engineering, the supply of special equipment, and support during the construction and commissioning of the plant. The contract is worth a three-figure million Euro sum for Uhde.

The urea fertiliser production from these new plants will increase FERTIL's annual production by more than 1 million tonnes and will be used to serve the export markets. Natural gas obtained from the host country will be used as feedstock.

This is the second fertiliser complex construction project which Samsung and Uhde will work on together. Two years ago, Samsung Engineering commissioned Uhde to provide a similar scope of supply and services for a turnkey ammonia plant. This is currently being built in Ras Az Zawr, approximately

400 km northeast of the Saudi Arabian capital, Riyadh.

FERTIL is also a familiar customer to the Uhde Group with Uhde Fertilizer Technology successfully commissioning a urea granulation plant in Abu Dhabi just a few weeks ago.

"This contract is proof once again of the high level of trust that the fertiliser industry bestows upon Uhde and its technological leadership of its plants, and confirms yet again just how satisfied our customers and partners are with our service," said Lothar Jungemann, Uhde Executive Board member responsible for the fertiliser division.

Uhde has a workforce of more than 4,500 employees worldwide and is a company in the Plant Technology business area of the ThyssenKrupp Group. The company's activities focus on the engineering and construction of chemical and other industrial plants in the following fields: fertilisers; electrolysis; gas technologies; oil, coal and residue gasification; refining technologies; organic intermediates, polymers and synthetic fibres; and also coke plant and high-pressure technologies. We also provide our customers with professional services and comprehensive solutions in all areas of industrial plant operation.

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Bechtel selects Alcatel-Lucent to deploy a fully integrated end-to-end communications solution for Angola LNG Plant



Alcatel-Lucent has announced that it has secured a US\$ 12 million contract with Bechtel Inc., the leading global company for engineering, construction, and project management, for the deployment of a fully integrated telecommunications infrastructure to support onshore and offshore operations of Angola LNG Limited's new plant in the Republic of Angola.

Under the terms of the contract, Alcatel-Lucent is responsible for the design, construction and commissioning of a turnkey communications solution, along with comprehensive network integration support to ensure the rapid rollout of Angola LNG process plant telecommunications system.

The Angola LNG project is an integrated gas utilization project encompassing offshore and onshore operations to monetize gas resources from blocks located offshore of Angola, with operations scheduled for usage in early 2012. Bechtel Inc. has been earlier selected for the construction of this new facility that is adjacent to the city of Soyo, the largest oil-producing region in the country, located on the Atlantic coast of Angola.

Alcatel-Lucent will also provide a complete set of professional services including designing, installation, commissioning, supervising, integration and testing services as well as the overall network planning and design. The new end-to-end communications and security solution will include the following: integrating fiber optics cable network and structured cabling providing physical connectivity for the entire plant, satellite communications, Local Area Network (LAN) that supports data and Voice over IP (VoIP) telephony systems, UHF

analog radio system and VHF marine radio enhancing workforce mobility and productivity.

Adolfo Hernandez, President for Alcatel-Lucent's activities in Europe, Middle East and Africa commented: "I am very pleased and proud that Bechtel has entrusted this project to Alcatel-Lucent, which further strengthens our growing role in delivering sophisticated, secured communications systems to enterprises in key vertical markets such as the energy sector. This project reinforces Alcatel-Lucent's ability to act as end-to-end network integrator to design, integrate and deploy robust, resilient communication solutions".

Based on Alcatel-Lucent extensive expertise in key vertical markets, Alcatel-Lucent delivers mission-critical communications solutions that help provide better network measurement and control, support utilities securing reliable energy provision, manage the migration to more modern technologies, and leverage Alcatel-Lucent unmatched breadth of experience with utilities.

Clough AMEC awarded offshore maintenance services contract for Woodside Energy's oil and gas assets, North West shelf, Australia

AMEC, the international engineering and project management company, has announced that its Australian-based joint venture, Clough AMEC has been awarded a new contract by Woodside Energy Ltd to provide offshore maintenance services for their oil and gas assets located on the North West shelf off Western Australia.

Clough AMEC has a long association with Woodside Energy in both engineering and asset support. This new two-year contract includes two one-year extension options.

Under the contract, Clough AMEC will provide maintenance services for the supply of offshore core crew and routine/campaign maintenance works on Woodside Energy's key offshore oil and gas production facilities.

The offshore work will be managed and controlled from Clough AMEC's Perth office with key interfaces with Woodside Energy's maintenance group. The contract has been developed around Clough AMEC's ability to be flexible within the contracting en-

vironment and support Woodside Maintenance on a number of offshore assets, such as Cossack Pioneer FPSO, Northern Endeavour FPSO, Nganhurra FPSO and the Angel platform.

"Winning this latest contract is an indication of how important asset support and Australasia is to us and we look forward to continuing and developing our relationship with Woodside," said Tony Cruddas, President of AMEC's Natural Resources Growth Regions business.



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below the Multi Media Listings.

- Release all your company press as the lead story in the relevant news portal, daily newsletter and on-line blog.
- Your press will be uploaded with a picture and all the correct hyperlinks.
- Up to 4 press releases written on your behalf.