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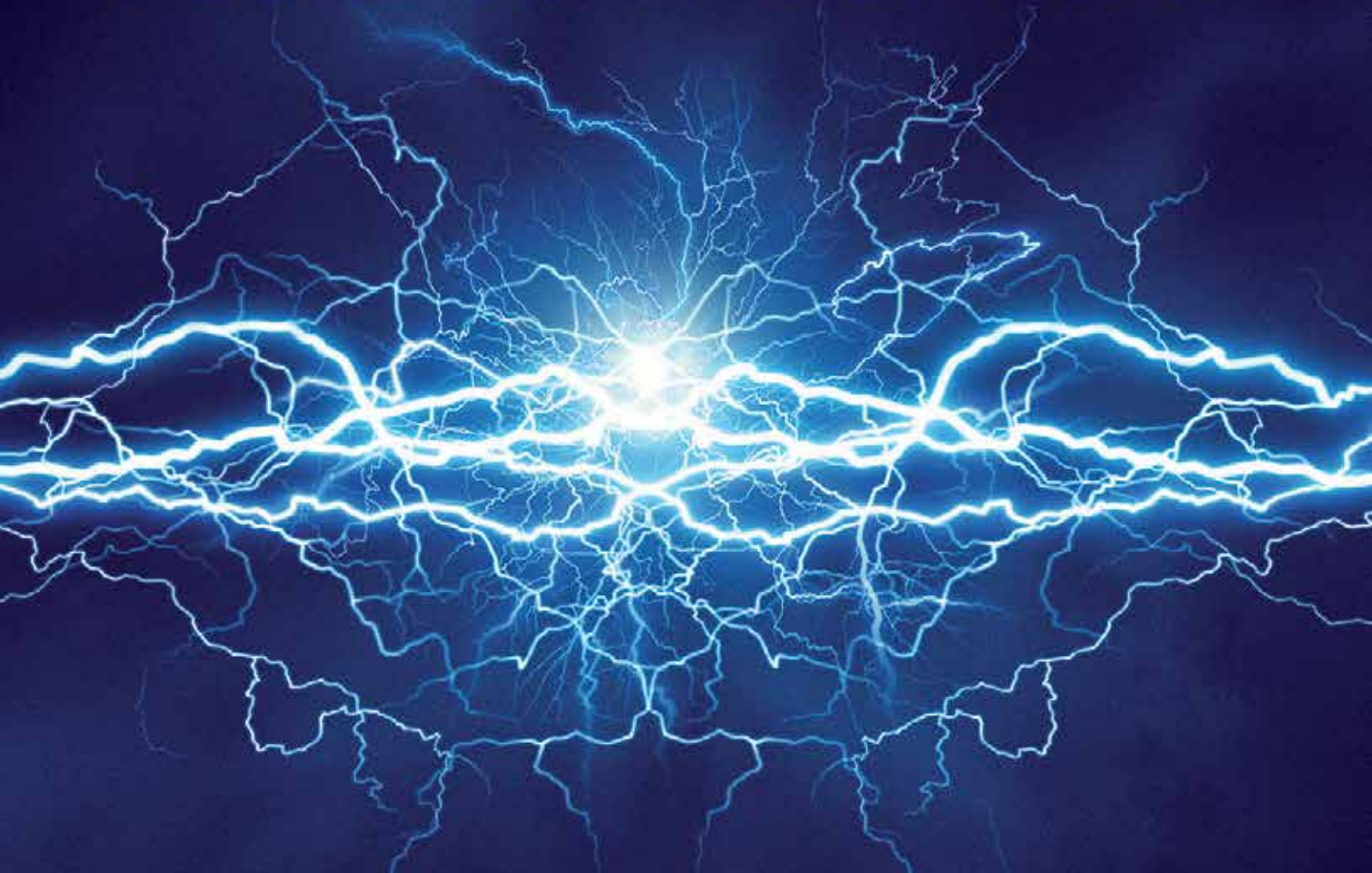
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#55 EDITOR

Happy new year! Now that the seasonal festivities are but a memory, it is perhaps right to reflect on a 50-year milestone. For in November 1965 Hydro-Québec commissioned the world's first 735kV high voltage transmission line.

The line was the vision of one Jean-Jacques Archambault, a young engineer with the Canadian company, and after approval in 1962 the plan came to fruition with the opening of the first 735kV line – now used around the world.

As a result of this, hydropower provides more than 99 per cent of the electricity generated in Québec, and the residents enjoy the lowest electricity rates in North America. Read the full story on page 9.

There is also a bright start to 2016 with the announcement that the assets of New York Wire, a supplier of woven mesh to consumer, automotive and industrial filtration markets, have been sold to Phifer Incorporated. The New York Wire operation will be a wholly owned subsidiary but a separate business unit of Phifer, after the deal was completed by 18th December last year. Turn to page 13 for the details.

And on page 16 you can read about Duke Energy Renewables' first wind power project in Oklahoma. The company is to build, own and operate the 200MW Frontier Windpower project, sited in Kay County, and which is expected to be operational by the end of the year.

David Bell
Editor

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#55 JANUARY 2016 ISSUE

and events

m machine industries



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DIARY SHOW EVENTS

2016

APRIL

4-8 April 2016
wire Düsseldorf
Düsseldorf, Germany
Exhibition
www.wire.de

JUNE

12-14 June 2016
**Guangzhou International
Exhibition**
Guangzhou, China
www.julang.com.cn

MAY

11-14 May 2016
Lamiera
Bologna, Italy
Exhibition
www.lamiera.net

SEPTEMBER

26-29 September 2016
wire China
Shanghai, PR China
Exhibition
www.wirechina.net

JUNE

7-9 June 2016
Wire Expo
Uncasville, Connecticut, USA
Conference and Exhibition
www.wirenet.org

OCTOBER

2-5 October 2016
IWCS
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MAKING THE NEWS

World first hits 50

On 29th November 1965, Hydro-Québec commissioned the world's first 735kV high voltage transmission line, so making it cost effective to harness the province's water resources. Today, hydropower provides over 99 percent of the electricity generated in Québec, and Quebecers enjoy the lowest electricity rates in North America.

By the early 1960s electricity demand in Québec was growing rapidly, requiring that Hydro-Québec double its generating capacity every decade. While other countries were looking into developing 500kV high voltage lines, Jean-Jacques Archambault, a young Hydro-Québec engineer, was studying a voltage level never before considered: 735kV.

In August 1962, the Québec Hydro-Electric Commission approved the project. The first 735kV line contributed significantly to the international reputation of Hydro-Québec and the Québec electricity industry and

now, fifty years later, 735kV transmission is used around the world.

Today, 735kV lines are the main arteries of the largest transmission system in North America, and on 24th April 2015 the Québec government announced the next step in its development: the Chamouchouane–Bout-de-l'Île project. The new line will ensure the continued reliability and efficiency of the Québec transmission system, as well as long-term supply of major load centers.



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Partnership approach to solar

SunEdison, in collaboration with ISM Solar, has begun construction of a 4.5MW DC solar project in Dighton, Massachusetts, for the Brockton housing authority, serving around 7,000 low and very low-income residents.

“We’re seeing strong demand for SunEdison’s power purchase agreement solution from entities like the Brockton housing authority that stand to save millions of dollars by going solar,” said Tom Leyden, SunEdison’s vice president of partner development.

“Working with local development partners like ISM is a great way for SunEdison to stay

connected to smaller local markets while maximizing cash efficiency.”

The solar power plant will supply electricity through a state-wide program called “virtual net metering”, which allows customers to enjoy the savings and environmental benefits of solar even if they are unable to install a system on site. The solar system is built in the same region as the customer, and energy is delivered over the existing power lines.

Construction is expected to be completed during the first half of 2016.

Local solution for Long Island

In response to PSEG Long Island's request for local energy resources to serve the South Fork region, Deepwater Wind is proposing to supply energy from its 90MW 15 turbine Deepwater One – South Fork project.

This will be the first phase of a regional offshore wind farm, approximately 30 miles southeast of Montauk, New York. All transmission cables will be buried deep below existing roads and under shoreline features, with no overhead cables or poles.

To complement the wind farm, Deepwater Wind is proposing to build two new battery energy storage facilities, in Montauk and Wainscott. The facilities will consist of lithium-ion battery technology, designed and installed by General

Electric. Together, the sites could store 15MW of energy.

"Governor Cuomo has made New York a leader in clean energy. Our new solution supports his goals by combining advanced energy storage technology and renewable energy from offshore wind to deliver clean, cost-effective energy exactly when and where it's most needed," said Deepwater Wind CEO Jeffrey Grybowski.

"Not only will the project reduce air pollution emissions on Long Island, but it'll also defer the need to build costly new power plants and transmission systems on the South Fork." Construction on Deepwater One – South Fork could begin as early as 2019, with commercial operations by 2022.

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New wire acquisition

Phifer Incorporated, a manufacturer of woven wire, fiberglass and polyester mesh, has signed an agreement to acquire the US assets of New York Wire, a supplier of woven mesh to consumer, automotive and industrial filtration markets. Closing was expected to be completed by 18th December 2015. The New York Wire operation will be a wholly owned subsidiary but a separate business unit of Phifer Incorporated.

Of the deal, Phifer president Brad Cork said: “We are excited about the addition of New York Wire, a strong brand with dedicated employees positioned in similar markets as Phifer. We believe New York Wire is a perfect fit to meet Phifer’s objectives.”

Guy Fritz, president and CEO of New York Wire, said: “Our current plan is for New York Wire’s management team and market strategies to remain intact as we work with Phifer to build our businesses. We look forward to sharing and

leveraging both companies’ experience, expertise and, most important, keeping our commitments to customers during this transition.”

New York Wire was formed in 1892 by the merging of three small wire-weaving companies in York, Pennsylvania. In the early 1900s the company engineered the first looms capable of weaving metal wire. New York Wire’s wire drawing and metal mesh capabilities include low carbon and stainless steel, bronze and aluminum.

New site for springs

In 2002, Master Spring began a multi-million dollar equipment purchase campaign to expand capabilities and capacity and has spent, on average, \$400,000 a year on modern machinery. A move to new facilities in 2014 has been followed with the launch of a new, comprehensive and mobile-friendly website.

"The new and improved masterspring.com makes it extremely easy for our current customers and prospective OEMs to explore our custom spring and wire form solutions, find technical resources and get in touch with our experts, regardless of whether

they're on a computer, smartphone or tablet," said Jeff Burda, company president.

He continued: "Ever since my father [Emil Burda, in 1945] founded Master Spring & Wire Form, we've been committed to quickly solving spring and wire form design challenges, and our new site will help us deliver on that commitment as we continue to evolve to meet customer demands."

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Chile solar plan

Google and Acciona Energía have entered into an agreement to supply Google's data center in Chile with 100 percent solar power. The supply will come from Acciona's PV plant, El Romero Solar, currently under construction in the Atacama region and expected to become one of the ten largest solar PV plants in the world.

On completion, sometime in 2017, El Romero will add up to 80MW of solar power into Chile's central electricity grid, the same grid from which Google's data center draws its electricity.

Google expects to nearly double its global use of renewable power from 1.2GW to 2GW. Sam Arons, manager of energy and infrastructure at Google, explained how El Romero fits into Google's overall strategy: "We have

entered a series of contracts worldwide that will nearly double our renewable power globally, from 1.2GW to 2GW, and were working to power 100 percent of our operations this way.

"The El Romero project is a key project for us, since it represents not only our first large-scale purchase of renewable energy in Latin America, but it's also one of our first data center solar contracts."

El Romero Solar will produce around 500GWh of solar power annually. Located in the Vallenar community of the Atacama region, the solar plant will cover an approximate area of 280 hectares, with a solar field area of 1.5 million square meters.



Oklahoma first

Duke Energy Renewables is to build its first wind power project in Oklahoma, increasing the company's US wind capacity to over 2,000MW. The company will build, own and operate the 200MW Frontier Windpower project, sited in Kay County.

"We're investing heavily in renewable energy, and surpassing 2,000MW of wind power is a significant accomplishment for our company," said Greg Wolf, president of Duke Energy's commercial portfolio.

"City Utilities is pleased to partner with Duke Energy on the Frontier Windpower project," said Scott Miller, general manager, City Utilities of Springfield. "Providing a long-term renewable source of power generation in this changing market is critical to the future of utilities. We

look forward to bringing this source on line for our customers in the coming months."

Construction is scheduled to accelerate in the first quarter of next year, and the Frontier project is expected to be operational by the end of 2016. It will consist of 61 Vestas V126-3.3 MW wind turbines. Duke Energy Renewables has previously partnered with Vestas on many of its Texas wind projects.

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EUROPE NEWS



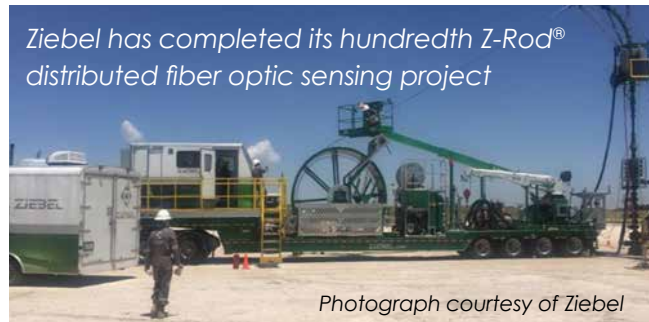
REINFORCING A REBAR PRESENCE

Acciaierie di Verona SpA, a newly formed subsidiary of Fin Fer SpA, the holding company of the Pittini Group, has completed the purchase of a Verona plant previously owned by Riva Acciaio SpA. The Verona works consists of a steel mill, a wire rod mill, a mill manufacturing rebar, and a facility for producing coils and arc-welded meshes.

The Pittini Group runs plants in Italy, Austria and Slovenia with an overall capacity of over three million tons of steel. The latest purchase will enable the group to expand its operations and reinforce its position in the rebar and building fields.

Federico Pittini, chairman of Fin Fer SpA, said: “Our group’s goal is to grow in order to overcome the hard times the European steel industry in particular and the manufacturing industry in general are going through. The purchase of the Verona plant is designed to increase our range of high quality wire rod products, reinforcing the company’s position in its traditional sectors.

“We shall do our utmost to re-launch the Verona plant and ensure its continued development.”



When Three and One make Two

Plans for a 1.2GW wind farm, East Anglia Three, have been submitted by ScottishPower Renewables. Over 300km², situated off the coast of Suffolk, UK, would be used to create the wind farm if the government decides to support it.

If approved, the project could start generating electricity in 2023; onshore construction will begin in 2021, followed by offshore construction in 2022. It would use up to 172 turbines with capacities ranging from 7MW to 12MW.

Scottish Renewables is already developing the East Anglia One offshore wind farm, with a capacity up to 714MW.

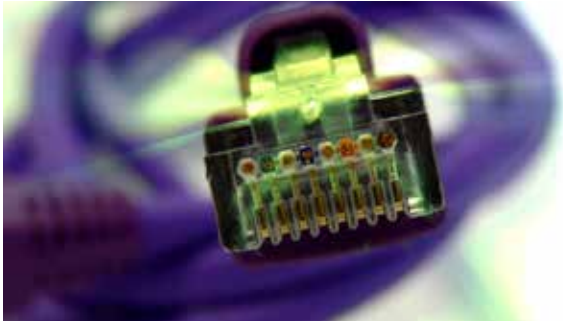
Sensing makes faster sense

Ziebel has completed its hundredth Z-Rod® distributed fiber optic sensing project. The Z-Rod system consists of a 6,500m carbon fiber composite rod, with embedded fiber optic lines, that make it possible to deploy both distributed temperature and distributed acoustic sensing along a complete well-bore.

With a diameter of only 15mm, the rod is injected into the well from surface equipment and can travel up to 1,800m along the horizontal section of a well. Unlike traditional logging tools, that can only survey a few inches of the well at a time, fiber optic sensing captures a complete well-bore profile several times per second.

The 100th project was to determine the flow profile of zones within a fracked unconventional well, for ConocoPhillips.

The Z-Rod's small diameter results in significantly reduced choking effects versus traditional coil tubing, enabling the Z-Rod to determine which perforated zones along the length of the well-bore are actually contributing to production. This information allows unconventional field operators to optimize their completion strategies.



Broadband connections Q3

According to the Dutch Broadband 2015 Q3 report from Telecompaper, the Dutch broadband market continued to grow during the third quarter of 2015, leading to a household penetration of 92.5 percent at the end of September.

The broadband market ended Q3 2015 with a total 7.093 million mass-market connections, growing by one percent during the quarter. The growth came from fiber and was supported by growing broadband via cable connections, following a rare quarterly loss for cable broadband in the second quarter.

Fiber broadband grew 5.8 percent during the quarter to end September 2015 with almost 13 percent of the total market. Cable broadband grew almost 1 percent during the quarter to end it with 3.28 million connections.

Ziggo, the largest cable operator in the Netherlands, returned to growth during the third quarter, adding 29,000 customers, but KPN (including Telfort, XS4ALL and the Edutel brands) still had more net additions with 31,000. At the end of the quarter, Ziggo remains the largest broadband provider with 43.6 percent, while KPN gained 0.1 percentage points to reach 40.5 percent of the broadband market, the same level as at the end of 2013.



Ready for rock – or cable

Offshore contractor Jan De Nul has taken delivery of the *Isaac Newton*, a new multi-purpose vessel. The vessel, launched in March last year, was handed over at Uljanik's Croatian shipyard on 27th November 2015.

The vessel is 138m long, 32m wide, with a deadweight of 13,436 tonnes, and is equipped for installing subsea cables, trench dredging and subsea rock installation.

In cable laying mode the vessel can install up to 10,500 tons of cable, while in subsea rock installation mode it can install up to 10,000 tons of rock in a single load.

The ship can also be used for the transport of cargo on the open deck, or may be used as a working platform for construction tasks, subsea or offshore projects. The vessel is equipped with two deck cranes for subsea works.



Short cut to higher speed

Germany's telecoms industry regulator has given approval for Deutsche Telekom to spend \$1.1 billion on equipping its existing copper wiring for high-speed broadband services.

The regulator said in a draft decision that approval was conditional on Deutsche Telekom giving its competitors access to the new technology, but it can deny access in areas where alternative networks are available.

The German government wants all households to have access to Internet speeds of at least 50Mb/sec by 2018, compared with a present average of below 11Mb/sec.

According to data from Akamai Technologies Inc, Germany ranks 14th in Europe, behind the UK, Romania and speed-leader Sweden with averaged speeds of 11.8Mb, 12.8Mb and 16.1Mb, respectively.

The upgrade will be done through vectoring, a technology that makes it possible to double the bandwidth of individual copper lines to take services from optic fiber-connected central distribution points.



Catching the Namib wind

InnoSun, a subsidiary of the French wind energy company Innovent, plans to construct a 150MW to 500MW wind farm in Tsau/Khaeb national park, located in the southwest of Namibia.

The Namibian environmental commissioner, Theofilus Nghitila, expressed his support for the development, stating that the move is an indication to the world that the country has a potential for renewable energy. "Namibia has the best wind regime in the world, which is unexploited for energy generation. We expect the signing ceremony to open a new era for Namibia for the private sector to tap into this potential to the fullest," he said.

InnoSun issued an invitation for the signing of a memorandum of understanding with the ministry of environment and tourism, to take place at the UN climate change conference in France.

Nghitila added that Namibia has targeted to meet 90 percent of its energy needs with renewable energy by 2030, though this is dependent on the availability of financial resources from developed countries, the global environment fund and the private sector.



Demo will soon be on-stream

Renewable power development company DP Energy has secured tidal stream demonstration power production rights of 4.5MW on a seabed site known as Berth E in the Bay of Fundy, Nova Scotia.

Minister of energy Michel Samson formally announced his department's intention to award a berth to DP Energy during the UN climate change conference in Paris. DP Energy has been working on the project with technology partner Andritz Hammerfest and has plans to install three 1.5MW turbines at its new site.

DP Energy recently took a 50 percent position in Berth C in partnership with Atlantis Operations Canada for the development of 4.5MW.

"This is a very significant development for DP Energy and is a further expression of our confidence in tidal energy generation as a key component in the portfolio of reliable, predictable and emissions-free power sources needed to take us into a more sustainable future," said Simon De Pietro, CEO of DP Energy.

The Ireland-based firm became Europe's largest independent developer of tidal stream following its acquisition of the Westray South project from SSE Renewables in April 2014.

UK MEP
Marian Harkin



Underground rallying call

On 18th November, set in the context of the European parliament's own initiative report on interconnection targets, UK MEP Marian Harkin hosted an "Undergrounding power grids" breakfast meeting in the European parliament. Participants included members of the European parliament, the European commission and numerous stakeholders involved in the European grid debate.

Mrs Harkin explained that: "It's clear, Europe needs more grids. At the same time, however, in our constituencies, we as MEPs witness more and more opposition to overhead lines," and she invited Europacable to update the meeting on the latest developments in underground cable technology.

Mr Raul Gil, chairman of the Europacable utilities board, welcomed the opportunity to share the latest developments: "Underground and submarine cable technology is fully available to complement overhead lines in sensitive areas and hence facilitate the public acceptance of power transmission lines in Europe," he said, adding that a new legislative proposal aiming for more undergrounding in Germany has demonstrated that resulting costs to the end consumer are marginal.



IWMA announces John C Hogg Travel Awards for wire 2016

The IWMA is delighted to invite students, apprentices and trainees in the wire industry to apply for the John C Hogg Travel Award Scheme for wire 2016.

Awards, available through the IWMA Educational Trust Fund, offer substantial financial contributions towards the cost of air travel and accommodation.

wire 2016 – in Düsseldorf, Germany from 4th to 8th April – is the world’s largest exhibition for the wire and cable industry. Each award covers Tuesday 5th and Wednesday 6th April and includes entry to the exhibition, a tour, free entry to the prestigious IWMA industry dinner and a presentation ceremony on the IWMA stand.

“The IWMA is fully committed to providing educational opportunities to help secure the future of the wire industry,” said Andy Lewis, IWMA manager. “This is just one of the benefits available through the educational trust to support our members.”

All applicants for the award scheme must be recommended or sponsored by a member of the IWMA.

A copy of the travel award conditions and application form are available online, and completed application forms must be returned before Friday 15th January 2016.

John C Hogg Travel Awards overview:

- Financial contribution
- Free entry to wire 2016 on Tuesday 5th and Wednesday 6th April
- Free wire 2016 exhibition catalog
- wire 2016 exhibition tour
- IWMA Industry Dinner invitation on Tuesday 5th April
- Presentation by IWMA and Messe Düsseldorf GmbH on Wednesday 6th April

IWMA Industry Dinner at wire 2016

Free tickets are now available for members to attend the IWMA Industry Dinner at wire 2016.

IWMA members can now book their free tickets for the prestigious IWMA Industry Dinner at wire 2016 at the Congress Centre at Messe Düsseldorf on Tuesday 5th April 2016.

Guests are invited to come directly from the exhibition floor for a drinks reception at 18.15 hours followed by a four-course dinner. The full program including menu can be found online.

As the event is substantially subsidised by the IWMA, member companies are able to book two free tickets plus a maximum of two additional tickets at €60 each.

Members are invited to submit their ticket applications before 19th February 2016 and ticket applications will be on a first come first served basis. Applicants will be notified of any availability in date application order following the deadline date.

Please note that only member representatives and guests who have pre-booked will be admitted to the event.

ASIA & AFRICA NEWS

DUBAI'S SOLAR PUSH

Middle East solar industry association (MESIA) is predicting that Dubai will become the city with the lowest carbon footprint in the world once the announced solar PV capacity is fully deployed. The government of Dubai has unveiled an ambitious program for 25 percent of its power generation to come from solar energy by 2030, compared to the current one percent.

The Dubai clean energy strategy 2050 program is expected to result in \$13.6 billion of new solar investments from two sources. DEWA will continue its large-scale solar procurement with plans to install 5,000MW of PV capacity at the Sheikh Mohammed Bin Rashid Al Maktoum Solar Park by 2030. Once completed this is likely to be the largest solar park in the world.

In the meantime, the Dubai government is encouraging the installation of rooftop solar panels. With around 115,000 buildings in Dubai this could result in 1,500MW of rooftop capacity. The government will make a \$27 billion fund available to provide loans for investors in the rooftop PV sector.



Africa upgrade

MainOne has announced the completion of the upgrade of its submarine cable network between Nigeria, Ghana and Portugal to a 100G-wavelength system. The 100G-wavelength upgrade, implemented using the Xtera Nu-wave Optima optical networking platform, is expected to provide additional capacity support for MainOne's delivery of high bandwidth services, and a more resilient network for customers in West Africa.

"We are starting to see an information explosion in West Africa that has brought about a dramatic increase in network traffic this year and this has highlighted the need to scale up our network for future demand. This upgrade to 100G provides MainOne the platform to further deepen broadband penetration in west Africa and meet the demands of our growing wholesale data business," said MainOne's CEO, Funke Opeke.

The MainOne submarine cable system links West Africa with Europe, running from Seixal in Portugal through Accra in Ghana to Lagos in Nigeria. The cable, which now has an upgradable capacity of over 10Tb per second, first went live in July 2010 and was the first private subsea cable to bring open-access, broadband capacity to West Africa.

Rumaila oil field is located near Basra and about 20 miles from the Kuwaiti border in southern Iraq

Photograph courtesy of Hydrocarbons Technology

Iraq's grid boost

Construction work has begun on an electricity power plant at Iraq's Rumaila oilfield. Powered by gas captured from the field's own hydrocarbon reserves, the plant will feed power into the electrical grid. Its capacity is expected to equal the electricity consumption of 23,000 typical Basrawi homes.

The new plant is part of a process to help balance Rumaila's power requirements with the production of electricity, and is scheduled to become operational during 2017.

The plant will generate up to 235,000kW per day at peak efficiency during the colder winter months and a minimum of 150,000kW in the summer, when high temperatures affect the efficiency of the gas turbines.



Direct data route

Nasrollah Jahangard, Iran's deputy minister of communications, and head of the information technology organization, has said that Iran's geographic placement offers the safest, shortest corridor for an optic fiber network between the east and the west.

The minister told a group of government officials that unrest in neighboring countries should prompt international companies to establish land-based optic fiber networks from southern Iran to Europe.

"We are to put entire provinces of the country under coverage of the optic fiber network and by end of 1396 (2017-18), nearly 65,000km of networks will be set up," Nasrollah Jahangard said, adding that around 34,000Mb of data will reach the Persian Gulf from the oceans, and on to Europe through the Suez Canal.

Subsea symposium

On 18th November 2015 in Yogyakarta, Indonesia, a joint workshop was held by the coordinating ministry for maritime affairs of the republic of Indonesia and the international cable protection committee (ICPC) regarding submarine telecommunication cables in Indonesia. These cables underpin the Internet and over 98 percent of trans-oceanic communications and data transfer, while also connecting the nation's thousands of inhabited islands.

The workshop was an approach to define, discuss, and recommend practical means to enhance the attractiveness for Indonesia to become an important international communications hub, while at the same time bringing sustainable connectivity and reliable communications to even greater island populations within the world's largest archipelagic nation.

United Nations law of the sea convention (UNCLOS) provides the legal framework for the oceans and is supported by over 166 countries including Indonesia. The articles in UNCLOS that address submarine cables are a major contribution to the success of submarine cables in the modern digital economy.



Egypt gains funding for renewables target

The European bank for reconstruction and development (EBRD) is to provide \$500 million to support Egypt's new solar energy program during 2016. The country aims to construct up to 2,000MW of utility-scale PV generating capacity as part of an effort to secure 20 percent of electricity from renewable sources.

A 2GW capacity is expected to be delivered through 40 PV projects of approximately 50MW each. Many of these projects will be located on a planned 1.8GW site near Benban in upper Egypt.

The EBRD expects to finance several such plants up to \$500 million and to mobilize up to \$1.5 billion in debt and equity from other financiers for the ventures. The total project cost is expected to be in the region of \$4 billion.

The solar projects will be constructed entirely by private firms.

China wind project

China has begun construction on the country's biggest wind power project, on an island off Fujian province.

The wind farm on Nanri Island, Putian city, is designed with an installed capacity of 400,000kW. On completion, scheduled for 2018, the project is expected to produce 1.4 billion kilowatt hours of electricity a year, equivalent to burning 450,000 tons of coal, while saving 4.4 million tons of water otherwise used for thermal power generation.

Since 2005, wind power has provided a stable electricity supply to the 50,000 people living on the island. The island is prone to hurricanes and typhoons with, on average, about 320 days of windy weather per year.

China aims to reduce its reliance on coal-fired power through renewable energy sources, including biomass, geothermal, solar, wind and hydro. The country brought around 35GW of renewable power generation online in 2014, more than the United States, Britain and France combined.



Power funding

The Asian Development Bank (ADB) has agreed to provide \$600 million to Indonesia's state electricity corporation, Perusahaan Listrik Negara (PLN), to upgrade the transmission and distribution system in Sumatra.

ADB will supply \$575 million through ordinary capital resources and \$25 million from the ASEAN infrastructure fund for electricity grid strengthening – Sumatra program.

The funds will be used to upgrade the existing 150kV transmission lines, and to expand and reinforce the medium voltage and low voltage networks, including the installation of distribution transformers, service connections and customer meter boxes.

The work is expected to be completed by December 2019.

According to ADB, the improvements will enable Sumatra to achieve an electrification rate of 90 percent by 2019, from the current national rate of around 84 percent.

African initiative

The African Union is launching a new African renewable energy initiative (AREI) aimed at mobilizing up to \$20 billion for investment in 10,000MW of clean energy power generation capacity in Africa.

The African Union, an alliance of 54 countries, reported from the COP21 meetings in Paris that the intention was for at least 10,000MW of renewable energy on the continent by the end of the decade.

According to Alex Rugamba, director of energy, environment and climate change at the bank, the AREI will be hosted by the Abidjan, Ivory Coast-based African Development Bank, which will also act as a trustee. The initiative aims to support the installation of large-scale renewable energy capacity on the African continent.

At least \$5 billion in public and concessional finance from bilateral, multilateral and other sources, including the Green Climate fund, will be needed to leverage a further \$15 billion in other investments between 2016 and 2020.

Most of the funding is expected to come from \$100 billion pledged at the 2009 climate meetings in Copenhagen, Denmark.

PRODUCTS
MACHINES
TECHNOLOGY



Exhibition line-up

Schleuniger Inc will demonstrate a selection of its established wire processing products, and introduce some new additions, at the 2016 IPC Apex Expo, the conference and exhibition at the Las Vegas Convention Center from 13th to 17th March 2016.



▲ Schleuniger's EcoStrip 9380. Photograph courtesy of www.exmore.com

Schleuniger will debut its newest cut and strip machine, the EcoStrip 9380. This flexible machine is designed for expanded capabilities due to its quick-change transport unit for belts, rollers and shortmode and is compatible with a wide range of accessories, including prefeeding, marking, stacking and coiling.

An intuitive color touchscreen user interface minimizes training and set-up times and with optional Schleuniger software, the EcoStrip 9380 can easily be integrated into various networks.

Also new, Schleuniger will demonstrate its UniCrimp 100 crimping press, a benchtop machine that delivers up to two tons of force. The safety guards can be

completely opened to allow easy access to the working area along with simple, fast changeover, adjustment and set-up times. The UniCrimp 100 accepts most applicators on the market and provides quality crimping for wires up to 6mm² (10 AWG).

Schleuniger will also showcase its new ShieldCut 8100, for fast and safe cutting and removal of the braided shield layer from most shielded cables.

Hybrid assemblies

Northwire Inc, a subsidiary of the Lemo Group, has been officially certified by Lemo to build and repair SMPTE hybrid fiber optic cable assemblies.



▲ SMPTE hybrid fibre optic cable assemblies from Northwire

Fully compatible with Lemo push-pull connectors – including the hybrid electrical/fiber optic 3K series – Northwire's SMPTE 311 and ARIB versions are also compliant to RoHS2, REACH, ANSI, UL 758 AWM. Resistant to crush, impact, abrasion, cut and VW-1 flame testing, the Lemo and Northwire combination is said to “ensure quality and performance for rugged outdoor broadcast applications”.

“In addition to celebrating our one-year anniversary within the Lemo group, Northwire has the pleasure of expanding our interconnectivity suite of products and services with Lemo to offer fully certified SMPTE and ARIB end-to-end solutions,” said Mike Schauls, VP of operations and engineering.

“Around the world, our Lemo colleagues in the United Kingdom, Germany, Benelux, Japan, China, Singapore and the United States are equipped with fiber termination facilities and we are pleased to complement their efforts and expand Northwire’s HD broadcast offering to our valued customers,” he added.

Northwire project managers, in collaboration with research and development, will focus on expanding SMPTE and ARIB product lines with halogen-free flame retardant, low smoke zero-halogen, low smoke halogen-free, riser, plenum rated and low temperature interconnectivity solutions.

Communication is key

Helukabel has received control and communication link (CC-link) approval for five Helukat data cables.

Helukabel, which joined the CC-link partner association (CLPA) in 2014 after submitting its CC-link bus cable, now has received CC-link IE field approval for the Helukat 200, Helukat 500ID, Helukat 600, Helukat 600IND and the Helukat 600S PUR.

The Helukat cables are suitable for either fixed or continuous-flex applications and vary in data rate from cat 5e to cat 7.

Some cable types are oil resistant and/or have halogen-free jackets.

Helukabel CC-link is a fieldbus system, used in the areas of manufacturing and production machinery, industrial manufacturing cells or process control applications, testing, sensors, and actuators. Developed by Mitsubishi Electric Corporation in the late 1990s, CC-link enables communication between industrial network devices from numerous manufacturers.



▲ Helukabel CC-link. Photograph courtesy of Helukabel

CC-link IE field is one of the different formats available. It is a 1GB Ethernet-based network that provides optimized control and deterministic handling of data along industrial communication infrastructures.

Determinism is ensured by a technique of passing tokens without using additional switches. Not only does it transmit control data, but also enables information processing for maintenance and diagnostics to improve collaboration and productivity. CC-link IE field allows up to 120 stations to be on each network, with up to 328 feet between each station, and can interconnect up to 239 networks in various network topologies.

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The screenshot shows the wiredInUSA website interface. At the top, there are several article thumbnails with titles like 'READ WATCH SHARE IT' and 'The Industry's Outlook'. Below the articles is a blue banner that reads 'You can get all the latest news daily'. At the bottom of the banner, there are social media icons for Twitter and Facebook with the text 'Follow us on Twitter' and 'Like us on Facebook'.



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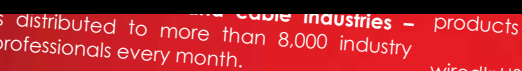
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