

MONTH
08
YEAR
2012

NOARK
Electrical Equipment Supplier for the Smart Grid

**Company
Newsletter**

Recent Applications

Asia Pacific

Hydroplant, 246MW, Cambodia

A total of 246MW of project which was ordered by CHMC, with all range of low-voltage components

Europe

Residential area Prague, Jahodnice

with 110 flats – this project is in cooperation with our distributors: Argos and Kamat

China Mainland

Iron & Steel manufacturing Base, Sichuan

With full range low-voltage components for vanadium and titanium industrial park



This Issue

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Headline News

NOARK Established Strategic Partnership with MISUMI

After strict investigation, NOARK's products have been, for the first time, put into the catalog of MISUMI, a listed company in Japan. This catalogue will build direct link between NOARK products and our clients, more than 15 thousand manufacturers around the world.

Sales director of Asia Pacific region said that NOARK products have passed strict inspection by MISUMI and a long-term strategic

partnership is established between these two companies. MISUMI will provide a platform for NOARK, on which NOARK's product will be found by global clients more quickly and accurately, and in so doing, it will be the key step of NOARK's expansion in global market. On the other hand, cooperation with NOARK is also a new opportunity for MISUMI to increase its business in China. Both of these two parties believe that this cooperation will create a win-win situation.

-MISUMI is a leading supplier of configurable and fixed components for the Factory Automation, Press Die and Plastic Mold Industries. MISUMI currently serves thousands of customers worldwide and the products are used in a diverse range of industries including automotive, electric, medical, semiconductor and packaging.

Who is NOARK?

NOARK is a premier global manufacturing company with regional headquarters in China, Europe and North America. NOARK has 3 distribution centers, multiple R&D centers and more than 1,000 employees. With strong technical expertise and a broad product portfolio, NOARK provides efficient and reliable solutions for energy and intelligent power distribution in industries such as utility, renewable energy, iron & steel manufacturing, building, petrochemicals etc.

For more information, please log on our website: www.noark-electric.com or make contact with our local office



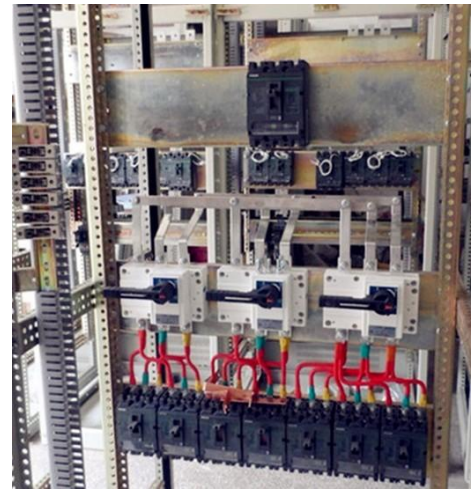
China Mainland

NOARK's new case in iron & steel manufacturing Industry

May 29, Shanghai, China, Electrical Equipment Supplier of the Smart Grid, NOARK won an order valued more than 30 million RMB from Tranvic Group, providing a full range of low-voltage equipments for its vanadium and titanium industrial park.

As top of 500 enterprises in China, Tranvic Group is an important processing base for vanadium and titanium. The new built vanadium and titanium industrial park is located in Weiyuan town of Neijiang city in Sichuan province. After completing and producing of the project, the annual production of vanadium slag and vanadium pentoxide can reach 140,000 tons and 14,000 tons, while that of the vanadium-bearing steel will be above 5,000,000 tons.

NOARK will provide for this industrial park a full range of low-voltage components including air circuit breaker ACB, DC/AC circuit breakers MCCB and miniature circuit breaker. Sales director of NOARK said that Tranvic Group is an outstanding one in Chinese iron and steel industry. NOARK positions itself to the industry market, and makes a series of solutions for its clients. Depending on advanced techniques, new and reliable materials, and consummate art and technology, NOARK won the order in the competition with other international brands. It shows the company's comprehensive strength, and ensured the function and uniformity of low-voltage in the modernized industrial park.



NOARK win another client in Utility

After gaining several successful applications in Utility, NOARK has won another order from Hebei Electric Power. The order includes 2 types of products, "Ex9BH TS" Series and "Ex9M TS" Series , and the amount reaches nearly 70 rmb million.

NOARK continues our idea of "High-quality, quick-response service, focusing on the smart grid ". It also helps to get recognition and affirmation from HeBei Electric Power Cooperation for winning this bidding.

The smart meters transformation Project is one of the fundamental parts of the construction of the national "smart grid". During the 12th "Five-Year plan" period, State Grid plans to replace the 300 million smart meters across the country, which means that switch supporting this market has great potential. NOARK timely gets the opportunities, specifically supporting the development of the smart meters for electricity market. Overall products performance reached the international

advanced level.

Yu Zhengsheng, Secretary of the Shanghai Municipal Committee, Visited NOARK

On April 5, member of the Political Bureau of the CPC Central Committee, Shanghai Party Secretary Yu Zhengsheng inspected NOARK, accompanied by Songjiang District Vice Secretary, District Mayor Zhang Peirong and other leaders.

Yu Zhengsheng, accompanied by CHINT Group chairman Nan Cunhui, CEO Nan Cunfei and NOARK general manager Zhang Zhihuang, visited NOARK intelligent grid brand experiencing center and held a discussion. In the experiencing center, Zhang Zhihuang introduced in detail the plans and series products NOARK made in intelligent grid field. Yu Zhengsheng praised the innovative achievements and core patents NOARK made in intelligent components. He pointed out that, NOARK's keep innovating and developing of traditional products well suit with the development of national intelligent grid. He also encouraged NOARK that, technology innovation is the dynamical source to the development of enterprise.



Yu Zhengsheng stopped by the inpower intelligent distribution system and inspected the function demo of real-time monitoring system and remote control system. He spoke very highly of the solar electric generation system and discussed about questions of grid-connected photovoltaic power station with the present. He expressed that, this system was not only a microcosm of intelligent grid, but also a developing direction in new energy application which worth popularizing and applying. Secretary Yu held ardent expectations for NOARK and CHINT's future developments in new energy.

NOARK's Patent is Published on EPO Website

Recently, NOARK was informed by European Patent Office (EPO) that, after the formal examination and primary search, The European patent application number: 10782889.9 has been published on EPO website (<http://www.epo.org>) on April 1st, publish number: EP2439762(A1).

The term of this patent is Multiple Pole Breaker With Auxiliary Supporting Pieces. It is an auxiliary supporting structure used for low-voltage breaker especially for double-gap multipole breaker revolving axle components. This technology can solve a series of technical problems such as unreasonable revolving axle components of multipole breaker, unbalanced contact pressure of moving contact and stationary contact caused by the torsion of revolving axle, too large operating and tripping driving force caused by unreasonable evolving axle components, inflexible rotation of revolving axle, slow tripping, complex manufacturing process and high cost. Early on NOARK Ex9M breakers series this patent was applied, and by this technology Ex9M won the name of New Patented Product in 2011.

Now with the market exploration in foreign countries, not only in home that the intellectual property rights protection is being emphasized, but also in foreign countries it is being given much attention by our company. Five patents have been applied to the EPO since 2009.

Solarinel, NOARK Low-voltage solutions in PV, presented on SNEC

May 16-18, SNEC PV POWER EXPO (2012) was held in Shanghai New International Expo Center. NOARK made its first appearance and attracted many attentions. The solutions for PV Roof Power System, Inverter Low-voltage Components and PV Ground Power Station Power System introduced by NOARK are aimed to help clients in different fields to use new energy more intelligently and environment-friendly.



In the 180 square meters exhibition hall, PV Power System solution NOARK provided was fully exhibited. By the video play visitors got an accurate and vivid knowledge of PV Roof Power System, Inverter Low-voltage Components and PV Ground Power Station Power System solutions. The PV Roof Power System solution of NOARK is made to provide a more economical, convenient and reliable power solution for

the popularization of new energy application, and it has been widely used in both residential and commercial roofs as well as many kinds of BAPV and BIPV in the world. Inverter Low-voltage Components solution is made by NOARK to provide for Photovoltaic Inverter various low-voltage components. The products include dc circuit breaker, contactor, surge protective device, fuse, rotary switch, direct current relay and so on, which have the properties of high temperature, pressure and high altitude resistance, and high degree of protection. It provides securities for various inverters. The PV ground power station power system solutions and products offered by NOARK are applicable to hostile environments such as high altitude, beaches, desert, Gobi, etc. So far, it has provided supporting AC-DC electric solutions for more than 1GW solar photovoltaic plans projects.

Market director of NOARK said that the PV power system solution exhibited make new energy within easy reach, flexible, convenient and safe. At present, NOARK products have been applied in many fields like various photovoltaic power plans, residential roofs and BAPV and so on. Whether in the Tibetan Plateau, tropical rain forest of Indonesia, or other cold and hostile conditions, the products are all working safely. We are very confident in NOARK electrical techniques.



Thousands of visitors have been in NOARK exhibition hall. They listened to the explanation or watched the video play. A game incorporating NOARK products called Angry Circuit Breaker attracted many attentions. Amid applause visitors got a further knowledge of NOARK, the supplier of photovoltaic system equipments.

North America

NOARK UL approved

August 21, Shanghai, NOARK four standard products product have passed America UL test. NOARK MCB and MCCB product owns exquisite design and excellent performance parameter, and is widely used in industries such as architecture, photovoltaic, machinery system and electricity, protecting lines and electrical equipments from short circuiting, overloading, isolation, electric leakage and lightning stroke.

NOARK R&D director says that, NOARK product has received 3C certificate, CE and ESC certification. The five products of MCB&MCCB passing the tough and rigorous UL certification and

being granted to sell in America and Canada market is a strategic step NOARK has taken to develop the global market. UL is America's most authoritative, but also the world's larger non-governmental organizations engaged in security testing and identification of America. In the two-week testing, two American engineers from UL Certification Center presented and witnessed the whole testing process and approved the testing report.

Asia Pacific

Continuous orders in Thailand, NOARK get clients approval

Recently, NOARK as low voltage electrical equipment supplier of smart grid signed up with Thailand for the building of photovoltaic plant in Nong Khai. NOARK will provide a whole set of electrical equipment including confluence box, AC cabinet, etc., and will also provide the inpower intelligent monitoring system.

The system solutions made special for the photovoltaic plant is a three-in-one system product containing distribution and lightning protection components, complete sets of equipment and intelligent monitoring system. It provides clients packing scheme, helps them with remote real-time monitor to system operation, and ensures the normal operation of components. NOARK also offers technical support and quality assurance to the whole project cycle which greatly reduced the difficulty of system designing.

The whole set of distribution and lightning protection components provided by NOARK mainly contains DC circuit breaker, DC surge protector, DC isolated switch and a full set of intelligent AC distribution products for photovoltaic system. The product grasped opportunity and gained advantages soon after its marketing. It was populated by clients in and out of our country for its high quality, small volume, exquisite appearance and high cost-effectiveness. Considering that the high temperature and high humidity environment in Thailand was a severe test to the normal operation of electrical equipment, said the designer of the system, NOARK especially optimized product designing in properties of corrosion prevention, heat dissipation, dehumidification and so on. Such an optimization promoted the product's performance in high temperature and high humidity environment, provided more powerful protection for electrical equipment and reduced distribution loss caused by faults on electrical equipment.



It is said that, the photovoltaic plants in Lopburi and Saraburi have begun the supply of power to electrical grid. NOARK electrical equipment is in normal operation and more than 2000 families are enjoying the clean energy.

Europe

Since the foundation of the NOARK Europe company, it has been developing central and eastern Europe new markets actively, now it has opened up sales markets in Poland, Romania, Hungary and Georgia, and has made some remarkable achievements. Following is a simple introduction of this.

NOARK Europe team on the Intersolar fair

Intersolar, which took place 13.-15.6.2012 in Munich, Germany, is the largest European exhibition of solar fototermic and photovoltaic technologies. NOARK was present together with Astronergy, another member of the CHINT group. From the NOARK Europe were present



Mr. Matúš Nižník – project manager for photovoltaic business and Milan Hubálek –product manager, “I can see a big opportunity for NOARK in starting up with the photovoltaic business. NOARK presents the latest technologies in branch and another advantage I see the complexity of our offer,” says Milan Hubálek.

“NOARK products for photovoltaic – small roof top applications will be available in our distributors’ network. We also started cooperation with large companies, focusing on photovoltaic projects.” Says Matúš Nižník, project manager.

NOARK references

Residential area Prague, Jahodnice
with 110 flats – this project is in cooperation with
our distributors: Argos and Kamat.



For more info visit:
<http://www.skanskareality.cz/flashdata/jahodnice/>

Residential area Swarzędz in Poland, project: Kalbud,
this project is in cooperation with our distributor
SOLAR Poznań. In total 116 flats will be equipped with
NOARK Electric devices and boards.



For more info visit:
<http://www.kalbud.com.pl/mieszkania-swarzedz-opis.php>



New product launch

LED and none-LCD control units for ACB

Application

low-temperature environment, could function in -40°C

Features

Double-core system could assures the reliable trip of control unit;
3-color indicator could display the real-time current



ATSN4, PC class ATS of 630A

Application

Automatic transfer between 2 power supply

Features

Frame current of ATSN4 is 630A
short transfer time;
compact design

ATS9BX, PC class ATS with rated current of 1-63A

Features

Rated current 1-63A
With time-delay under-voltage adjustment function

ExM1X, MCCB

Features

Rated current up to 160A
With the same dimension to Ex9M1

AC thermal-magnetic, AC magnetic, DC thermal-magnetic and DC magnetic available
DC magnetic type is applicable to PV combiner box to prevent the fault-trip caused by high temperature.



Ex9IR32 Rotary Disconnecter for Photovoltaic System Debuts

Ex9IR32 rotary disconnecter for photovoltaic system is one of the most important products introduced by NOARK in this year, it was explored as an important switch apparatus of small-scale inverter. It has a new designing, smaller volume, special structure and a high voltage of 1000VDC, and is applied to 1kw to 20kw small-scale inverters.

The structure of Ex9IR32 is lateral stacking. This kind of structure is space-saving and more suitable for small-scale inverters. Ex9IR32 is a product specially made for inverter. According to inverter's IP65 defense grade requirement, the installation of each handle is ensured that it reached IP65 standard. At the same time, based on customers' demand, NOARK explored products with different current and voltage specifications and circuit numbers. The switching & breaking time of the products is much less than 3 minutes, which achieved industry-leading level.

Ex9IR32 can not only satisfy clients' needs of basic parameters, it emphasizes more on clients' practical use. Based on this, it explored three ways of installation: surface type, guide rail type and bottom installation, very convenient for customers' use. We have reasons to believe that this product will be another star product of our company after its marketing.

Products improvement

Non-Polarized MCB Upgrades

NOARK DC breaker EX9BP quickly occupied half of the photovoltaic solar energy market after it was launched. After half a year's study, NOARK launched the new generation of product EX9BP, which successfully solved the problem of unstable breaking frequency in critical current.

NOARK EX9BP is by only two companies in Depending on this number of orders from year. In application, is very small; circuit unsafe. Though there was standard, in order to extreme conditions, year and finally upgraded and reduce the damages built a strong foundation for NOARK's leading position in photovoltaic market.



non-polarized, and can be produced this industry. NOARK is one of them. advantage, NOARK won a large Australia photovoltaic market last engineers found when the current breaker would be unstable and no clear definition by the related improve product reliability under NOARK engineers studied for half a the product, enhanced its reliability to it. The upgrading of this product

NOARK Intelligent Power Distribution Management System Upgrades

August, Shanghai, NOARK InPower2.0 system, intelligent system of power distribution management, appears. The system continues its more-efficient and high-reliability, improving the management of power distribution, simplified operation interface, and realized web interface publishing. All this makes it easier and convenient for the user to recognize different equipment components.

NOARK R&D engineers says, this system was designed with mixing technology, less routing, less construction complexity and effects of unreliable factors. It has great dispatching function and 20 kinds of dispatching and monitoring modes with witch it realizes the real-time monitoring of 16 COM and dispatching management of 4,000 components. It owns the functions of three languages' free switch, its effective and reliable real-time response speed enables it operate with a 100ms processing speed. Unquestionably its efficiency is double that of the first generation InPower system.



Now the system is in debugging. R&D engineers try their best to reduce potential risks. After the system's coming online, functions such as intelligent power monitoring, remote control, failure alarm and historical data analysis will be easily realized for its users.

Information



NOARK on the Exhibition

We also would like to invite you to our stands on following fairs:

Time	City	Exhibitor	
11.- 14.9.2012	Poland, Bielsko Biala	ENERGETAB http://www.energetab.pl/	
11.- 14.9.2012	Romania, Bucharest	IEAS http://www.ieas.ro/	
12.-14.9.2012	Gansu, China	CWCEE Expo http://www.cwcee.com/	



NOARK
Quick Response



24-hour response



Short lead time



360°
one-stop solution

Please contact our local office for a special offer for you