

Gamesa to supply 304 MW at five wind farms in India

Gamesa continues to make further inroads into the Indian market, where the company is the number-one OEM, having commanded the leadership spot for three years in a row. Specifically, Gamesa has secured five new orders for the supply of a total of 304 MW to several customers.

The company will supply, install and commission the turbines, as well as handling the operations and maintenance services at all of the facilities. Moreover, at four of the complexes, the company will take charge of construction.

In all, Gamesa will supply 80 of its G114-2.0 class S turbines (160 MW) and 72 of its G97-2.0 MW class S (144 MW) turbines, both of which were specifically configured for the Indian market with the aim of maximising turbine performance at low

wind speed sites. These projects are slated for commissioning during the first quarter of 2017.

Gamesa has been present in India, where it has installed over 3,000 MW, since 2009. According to MAKE Consultancy, the company is the leading OEM in India, with a market share of 34% in 2015 (up from 25% in 2014), having dominated this market for three years in a row.

With more than 35,800 MW installed, Gamesa has a footprint in 55 countries. Its comprehensive response includes also the wind turbine's operation and maintenance services, that manages for more than 22 GW. The company has production centres in the main wind markets: Spain and China, as the global production and supply hubs, while maintaining its local production capacity in India and Brazil. 



Gamesa's wind farm in India...

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India Power Corporation takes control of 1,000 MW Meenakshi plant

India Power Corporation Limited (India Power), a publicly listed Kanoria Foundation entity, has taken over the control of 1,000 MW thermal power plant of Meenakshi Energy Private Limited (Meenakshi). The Meenakshi plant will enable India Power to add capacity of thermal power generation to its portfolio.

Of the 1,000 MW, 300 MW is already operational and 700 MW is under advance stage of implementation, which will be commissioned by the third quarter of next year.

India Power is also setting up a 450 MW (150 MW x 3) power plant in Haldia, West Bengal. The first unit of the Haldia plant will be commissioned by end of December 2016, the second unit by March 2017, and the final unit by next year. The investment is about Rs 3,500 crore, one of the largest in the state in recent years.

Hemant Kanoria, Chairman, India Power, said, "India Power has been able to grow its businesses profitably despite the downward growth trajectory in the energy space over the last few years. With low level of debt and large enterprise value, the company has been able to create value for its shareholders in spite of the adverse power sector environment."



(L2R): H. Kanoria and R. R. Kanoria

India Power Corporation Ltd. was incorporated in 1919. The company has actively forayed into a diversified portfolio, with renewable and conventional modes of power generation, transmission, distribution & power trading. It currently operates 95.2 MW of wind assets in

Rajasthan, Gujarat and Karnataka, and has also developed a 2 MW grid connected solar power plant along with West Bengal Green Energy Development Corporation Ltd. Asansol. 

Schneider Electric India boosts its automation business

Schneider Electric, the global automation specialist and a well known company for energy efficiency, is all set to increase its industrial automation footprint in India. Catering to increased demand across various sectors, the company expects to launch as many as 365 products and solutions this year.

The company emerged as a major player in the global process automation market in 2014 following its acquisition of Invensys Plc. It is now eyeing an even bigger market presence in India. Increasing its portfolio of products, solutions and services here, it will further enable itself to address growing regional and country-wide demand in four key sectors – Power, Oil and Gas, Water and Waste Water (WWW) and Mining, Metals and Minerals (MMM).

The company expects to grow its position in the Indian Automation market in the wake of strong demand due to various government initiatives such as 'Make in India' and Smart City Mission that have

Automation at their very core. Also, the company feels that Automation would be the key for India to become a global manufacturing hub – as it would need innovation as well as consistency in quality and efficiency while keeping price competitive to compete globally.

Rajat Kishore, MD and VP, Process Automation, Schneider Electric Systems India says, "Automation will be a high growth area in India. Despite the fact that Manufacturing contributes about 17% to India's GDP, there is still significant untapped potential when compared to global benchmarks. The manufacturing industry is undergoing tremendous change due to Urbanization, Industrialization and Digitization megatrends. To add to this, even as energy demands are set to double in the next 40 years, CO₂ emissions will have to be reduced by half to avoid irreversible damage to our planet. So we have to become three times more efficient. Automation will drive this efficiency improvement". 



Gaya Residents Enjoy Smart Metering

Bihar's first set of 100 smart electric meters have been successfully installed in Gaya.

What does the first lucky consumer of the smart meter Kumar Kanishk from Shivpuri Colony say?

A smart meter is an electronic device that records consumption of electric energy in intervals of an hour or less and communicates that information at least daily back to the utility for monitoring and billing. Smart meters enable two-way communication between the meter and the central system. Unlike home energy monitors, smart meters can gather data for remote reporting. Such an Advanced Metering Infrastructure (AMI) differs from traditional Automatic Meter Reading (AMR) in that it enables two-way communications with the meter. Installation of Smart Meter is the step towards Government's Smart Grid Initiative.

Since the inception of electricity deregulation and market-driven pricing throughout the world, utilities have been looking for a means to match consumption with generation. Traditional electrical meters only measure total consumption, and so provide no information of when the energy was consumed at each metered site, Smart meters provide a way of measuring this site-specific information, allowing utility companies to introduce different prices for consumption based on the time of day and the season.

Utility companies propose that from a consumer perspective, smart metering offers potential benefits to householders. These include:

- **More accurate bills:** Smart meters mean the end of estimated bills, the end of having to remember to provide meter readings and/or have a stranger come into your home to read your meter
- **Better understanding of your usage:** With the in-home display, you can see immediately and directly how your habits and lifestyle impact your energy usage and ultimately your energy bill. By making your energy usage more easily understood, you can make smarter decisions to save energy and money, including feeling more comfortable switching energy supplier
- **Bringing energy system into the 21st century:** The future is smart, and smart meters are part of the effort to create a smart grid, which is part of providing low-carbon, efficient and reliable energy to Britain's households
- **Innovative energy tariffs:** Using the data collected on when and how households are using energy, suppliers can create more competitive time-of-use tariffs with cheaper prices for off-peak use.

Electricity pricing usually peaks at certain predictable times of the day and the season. In particular, if generation is constrained, prices can rise if power from other jurisdictions or more costly generation is brought online. Proponents assert that billing customers at a higher rate for peak times will encourage consumers to adjust their consumption habits to be more responsive to market prices and assert further, that regulatory and market design agencies hope these 'price signals' could delay the construction of additional generation or at least the purchase of energy from higher priced sources, thereby controlling the steady and rapid increase of electricity prices. The Smart Meter will report back electricity issues (such as periods of low voltage) to deliver better quality of supply.

An academic study based on existing trials showed that homeowners' electricity consumption on an average is reduced by approximately 3-5%.

The ability to connect/disconnect service and read meter consumption remotely are major labour savings for the utility.

Bihar's 1st set of 100 smart power meters are already being installed in Shivpuri Colony and Aliganj localities of Gaya town by India Power Corporation (Bodhgaya) Ltd.

The new-generation smart meters are well ahead of the electronic meters besides dispensing with the necessity of manual reading, alert power supply officials to snags with precise location and other details. Smart meter users will no longer be required to register complaints as the meters will send signals to the main server, thereby ensuring prompt fault repair. 1200 meters are being installed on pilot basis and based on the adaptability; larger quantity installation is being planned. India Power Corporation (Bodhgaya) Ltd. (IPCBL) has about 1,10,000 power consumers in Gaya town, Bodhgaya and Manpur areas. IPCBL has undertaken the task of replacing old and exposed LT wires with aerial bunch cable with five wires bunched together. Three of five wires carry current provided by the three phases emanating from distribution

transformer and the two remaining wires are used for earthing and street light purposes respectively.

Once the smart meters are installed, power executives will no longer have to climb atop poles for disconnection purposes. Power supply to the defaulters will be disconnected from the main server itself and reconnection too will be instantly done once the bill is paid. These smart meters will be beneficial for both the consumers as well as India Power because the consumer will be getting quality power (aerial bunch cable will minimize voltage fluctuation). India Power Corporation (Bodhgaya) Ltd. will benefit as the systems seals the leakages that cause power theft.

The priority to replace the old mechanical meters with the smart meters will be based on a disciplined system. The smart meters will provide the consumers with different facilities such as automated meter reading, six-month data storage, online fault detection in distribution line, location and quantity of power theft amongst others. The company would not charge

anything from consumers during the pilot project.

The first lucky consumer of the smart meter – Shivpuri Colony resident Kumar Kanishk said, "The company told us about benefits of the smart meters. If the family goes somewhere outside and the house is locked, the consumer will have to inform the company office. During this period, meter will not show any reading and if someone uses or steals power, the company will get a report and take action immediately."

"We had a mechanical meter at home and later replaced it with a digital one. Now India Power has installed a smart meter. In the digital meter, there were complaints of excess reading but that was sorted out. Only time will tell the

performance of these smart meters, added Kanishk.

Union Energy Minister Piyush Goel has directed power companies to ensure 100% smart meter coverage by the year 2020. IPC(B)L is likely to complete the job well ahead of the 2020 deadline.

Source: India Power Corporation Limited



Wires • Cables • Sleeves • Cords

Quality

that stands everywhere

REFRIGERANT RESISTANT CABLES
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APPLICATION :
HERMATICALLY SEALED COMPRESSORS

FIBRE GLASS CABLES
CLASS - 'B' & 'F'
APPLICATION :
ELECTRIC MOTORS, HEATERS, ALTERNATORS Etc...

SUBMERSIBLE WINDING WIRES & FLAT CABLES
POLY INSULATED WIRE & CABLES

OTHER PRODUCTS

BRAIDED COPPER FLEXIBLE
MATERIAL :
• BARE COPPER
• TINNED COPPER

BRAIDED CORDS
ROUND & FLAT
MATERIAL :
• POLYESTER
• FIBRE GLASS

STAINLESS STEEL BRAIDED FIBREGLASS CABLES
APPLICATION : HEATER, PLASTIC PROCESSING, MACHINES ETC...

Braided Expandable Protection Sleeves

Material :

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FEATURES:

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APPLICATIONS:

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