FOR A SMARTER TOMORROW
Internet of Things (IoT)

The internet is not only everywhere but it is inescapable. Among ‘things’ like laptops, tabs, mobiles, games, and even TV sets, internet exists in every corner of our lives and lifestyle through its connectivity. So much so that it now takes it to the next level of ‘things’ which were hitherto never connected. Hence, by the use of sensors and connectivity, all ‘things’ never connected earlier are being connected to operate, making our lives easier. Therefore, at the basic level, Internet of Things (IoT) refers to the devices that can sense aspects of the real world, like temperature, lighting, sound level, presence or absence of objects including people and transmit that real world data so that they can be acted upon.

Most research papers forecast the IoT to be the most disruptive technological revolution since the advent of world wide web. Projections indicate that more than 100 billion uniquely identifiable objects will be connected to the internet by 2020. Here is an interesting scenario of a hotel check out process. At the point of check out, most hotels check for consumables from room refrigerator and add it to the bill before asking you to settle the invoice. Customer usually has to wait till this process is completed. However, I recently noticed a IoT enabled hotel refrigerator in Singapore. Any consumable item picked from the refrigerator is ‘sensed’ and hence deemed to be consumed and billed to the customer in the system automatically. Sensors kept in the refrigerator send data automatically to the billing system on the items picked up. A customer checking out simply has to get the invoice generated and pay. This check out process now usually takes just about a minute.

If you can’t avoid the Internet of Things, you may as well understand it. So what really are the elements that form the Internet of Things? Let’s understand the basic elements.

**Things:** Anything that can potentially be tagged or connected through use of sensors or otherwise would be the ‘Things’. This may include any item from sensors and household appliances to tagged living beings. Devices can contain sensors or sensing materials can be attached to devices and items. A human being with a mobile phone is also connected and hence can be a ‘Thing” in the scheme of IoT.

**Connectivity :** Any type of connectivity among the “Things” through use of any connectivity mechanism would form the network among the “Things” and then connecting to internet would form the connectivity among them. This may use devices, sensors etc. For example, when you call a cab on mobile app, you are connected to the cab and both you and the cab become “Things” in the internet.

**Data:** The information thus captured from “Things” are transmitted through the connectivity in the form of data. Hence, it is often said that IoT devices are excellent data capturing mechanism. Data is the glue of the Internet of Things, the first step towards action and intelligence.

**Data Transmission:** “Things” get connected and start communicating by sending data so that it can draw actionables from this data. For example, higher temperature data can communicate through internet and show up so that action can be taken for over heating.

**Intelligence from Data:** The aspect of intelligence as in the data gathering capabilities in IoT “Things” and the intelligence gathered from interpretation of data gives clear actionables. This area of data usage is called data analytics, aka artificial intelligence.
Action: As a result of actionables derived from analysis of data captured by “Things”, the actions taken would form this element of IoT. This can be manual action, action based upon debates regarding phenomena (for instance in climate change decisions) and automation, often the most important piece.

Ecosystem: The Internet of Things has to be understood in context of situation and the benefits it accrue to the entire system of “Things”. Hence, it’s no surprise that Internet of Things has now metamorphosed into Consumer Internet of Things, Industrial Internet of Things, Internet of Everything etc, depending on its usage.

Despite such benefits, Internet of Things does come with many privacy and security implications. If left unchecked, information about us can be made available to segments other than the target segment resulting in a compromise. Hence, IoT solutions need appropriate security solutions before they can be deemed safe for beneficial use.

How IoT is helping the Power Sector

Internet of Things (IoT) has become a game changer nowadays for all the sectors. The Power sector has also adopted IoT devices in different areas and is now able to manage the efficiency level in case of distribution losses, uptime of assets, reducing interruption level, real time analysis on demand etc, better.

The evaluation of the IoT in the electrical power industry transformed the way things performed in their usual manner. IoT increased the use of wireless technology to connect power industry assets and infrastructure in order to lower the power consumption and cost. Some of the examples of IOT usage include SCADA, smart metering, building automation, smart grid, and connected public lighting.

According to Gartner, the IoT usage in the energy sector is expected to grow to 50 billion devices by 2020, and manufacturers, utility providers, and consumers are taking advantage of information that flows from multiple assets.

Smart apps are already being offered that allow users to control their utilities from their phone or tablet. Homes that learn and respond to personal energy usage patterns aren’t far from becoming a reality; the age of manually flipping a light switch may soon be over. Like you exit one room and enter another and automatically lights go off, all this technology is on an automated smart system.

However, potential use of IoT devices in our distribution business has been growing up substantially and some of the major areas where we can leverage our thinking to build smart operation are as under:

SCADA

SCADA is one of the major application areas of IoT. SCADA allows the centralized monitoring and control of remote located generation and transmission systems. The Internet of Things is the next phase of smart manufacturing that upgrades SCADA by making it more intelligent and smart. IoT complements both distributed control system (DCS) and SCADA by widening existing capabilities like real-time data capturing, anomaly/machine breakdown alerts, real-time control, data logging, data analysis, and visualization.

IOT Device at a Distribution Transformer at Asansol

As if inevitable, many companies in India have adopted IoT in its operations. India Power too has adopted IoT for asset monitoring of its distribution transformers at Asansol. The wave is therefore on, all around us.

Article contributed by Mr. Sanjeev Sinha, President – IT & Digital Transformation.

“Every once in a while, a new technology, an old problem, and a big idea turn into an innovation.”

Dean Kamen
Smart Metering
Smart metering is an essential element in smart grid implementations as they are using Internet of Things to transform traditional energy infrastructure. Smart metering through IoT helps to reduce operating costs by managing metering operations remotely. It also improves the forecasting and reduces energy theft and loss. The introduction of an advanced metering infrastructure (AMI) enables two-way communication between the consumers and the utilities. This allows additional services like remote connection / disconnection of energy that subscribers can employ in case of non-payment of their bill.

Smart Grid
As discussed earlier, smart meter is a key part of the smart grid and there are millions of smart meters already connected to the grid. Smart grid makes better use of available energy supply by optimizing electricity generation and distribution depending on the load demand.

This includes Ethernet based communication connected substations with intelligent equipment devices at each substation. This enables the automation of substations which can be coordinated effectively for a better power distribution especially during peak hours.

IoT in smart grid determines parts that lack power and also those with excessive power at a given point of time and accordingly helps the generating stations to come online to fill up the gap.

With the use of internet connected smart meters at individual customers, smart grid collects the current load data instead of historical data and then controls local energy generation and load. This can also implement an efficient way of energy measurement and billing for the consumers.

The smart meter data can also be used for improving the real-time identification of grid fault location and restoration. Another benefit from IoT based smart grid is that it can schedule the consumers to operate their high wattage loads when demand on the grid is low.

Article contributed by Mr. Sandip Saha, Chief Manager - IT

Internet of Things (IoT): The new frontier in Healthcare Industry

The last three years were indeed disruptions in technology space. We have witnessed unprecedented rise of automations, robotics, Artificial Intelligence and finally virtual reality. Barring the last one, all these were possible due to abundance of data available. Due to emergence of dynamic and unconventional methods of managing and storing information, data from devices, business, social media & mobile, machines were able to make their way to repository either in structured or unstructured form. And once in repository, mining of those massive data is now possible with various statistical techniques. This paves way to take quick (almost instantaneous!!) decisions by business leaders.

While Social Media data is easily accessible (each social media player exposes the data through a paid service called on API), machine and device data are not easy to retrieve. Well, it was not easy. Now, it is just at your fingertips in a wink of your eye! Thanks to IoT, petabyte size of data (both realtime as well as static) are now available for mining in just a few seconds.

IoT: A Quick Premier

So what is this IoT all about?

Let’s understand with an example. You are driving back home and suddenly get a call from your parent that they are in front of your house’s main door. However, you are still far away from home. What to do? Will your parents stay outside the house till you arrive? No, not really!! You quickly start an app in your mobile which is meant to manage the door locking system of your house. You touch a button that in turn activates the main door camera to see who are actually standing in front of your door. You confirmed that indeed your parents are standing in front of the door. You touch another button which activates door locking system and then opens the door. Well, your parents are now inside the house.

Not finished yet!!

It’s hot outside as well as inside. Why not put on the AC for them. Again, your mobile phone is

“The science of today is the technology of tomorrow.”

Edward Teller
at your help. You open another application that manages and controls AC system in your house. Just one / two touches on button and the drawing room AC is on!!

Amazing isn’t it? You have not reached home yet but at least you are tension free that your parents are in absolute comfort.

All these are possible with IoT. Let’s understand the technology behind this entire show. What is happening here is pretty simple and straightforward. Your door camera has a ‘sensor’ whose job is to collect information when instructed (i.e. touching the button in app) and transmit to another device who actually requested the same. In this case, the information is nothing but a picture. And your mobile is the device where through the app you can see the picture. Your door lock is controlled by an ‘actuator’ whose job is to perform operations (in this case lock / unlock) on the levers of the lock so that the door can be opened and / or closed. The actuator is activated when it receives signals from your device i.e. mobile phone. All signals are transmitted to cloud where an application is hosted via network card. You interact with that application via another Mobile App called user application / GUI.

So what did we learn? Typically an IoT framework comprises the following elements

Using IoT in Healthcare

The usage of IoT in healthcare (the industry, personal healthcare and healthcare payment applications) has sharply increased across various specific Internet of Things usage cases. At the same time we see how other healthcare IoT usage cases are picking up speed and the connected

healthcare reality is accelerating, even if hurdles remain. Within the overall connected healthcare and eHealth picture, more integrated approaches and benefits are sought with a role of the so-called Internet of Healthcare Things (IoHT) or Internet of Medical Things (IoMT). The period from 2017 until 2022 will be important in this transition, with several changes before 2020.

As per various reliable websites, it is estimated that by 2019, around 87% healthcare organization will adopt IoT framework.

Within the scope of IoT in healthcare, around 80% of usage cases are for Remote Health Monitoring. In other words: today’s major usage cases from an IoT spending perspective are outside the setting of a hospital or other healthcare facility. This is obvious as many medical instruments and devices now have a data port through which data can directly be fed to Cloud via network card (refer the above diagram). This is causing a paradigm shift in patient care where more number of patients can be monitored outside (i.e. patient’s home) hospital. In a recent study conducted by Aruba, an HP company, it is found that around 73% of IoT use is for patient monitoring.

Remote health monitoring also partially helps solve the rise of chronic diseases, among others due to an aging population (but not just that). Remote health monitoring is also ideal when patients live in remote areas.

There is a broad range of specialized wearables and biosensors, along with other medical devices, available today, that that enables remote health monitoring.
The global smart healthcare market is expected to reach $169.30 billion by 2020 with a prominent role of remote monitoring (source: Technavio).

**Internet of Things and Automation in Healthcare**

Some form of Hospital Automation is omnipresent in contemporary times. Robots are being deployed for precision surgery and/or distance surgery. Also robots are being used for rehabilitation of patients. IDC has estimated that by 2019 there will be a 50% increase in the use of robots to deliver medications, supplies, and food throughout the hospital. And needless to mention, all these robots shall be controlled remotely through an IoT framework.

This also opens up a debate on who shall be responsible in case a patient’s condition deteriorates post medications as prescribed by robots.

So in a near future, we can definitely expect a better healthcare to unveil.

**Article contributed by Mr. Arghya Roy - Chief Manager, Digital Transformation**

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“Technology can be our best friend, and technology can also be the biggest party pooper of our lives. It interrupts our own story, interrupts our ability to have a thought or a daydream, to imagine something wonderful, because we’re too busy bridging the walk from the cafeteria back to the office on the cell phone.”

*Steven Spielberg*
IPCL Power Trading Private Limited (IPTPL), as an inter-state electricity trader across numerous volatilities of the Indian power market, has established themselves as a successful platform for transaction of energy on a pan-India basis. Though non-discriminatory open access provisions were enacted through Electricity Act, 2003 allowing all consumer/generators to choose supplier/user of their choice, even after more than a decade it broadly remains merely as a “golden note” only. Policy makers envisaged for a broadly open electricity market with due enhancement of stakeholders’ choice; till date power market largely lacks vibrancy, dynamism and competitiveness because of implementers’ prejudice.

If we try to look through the basic shortcomings dragging holistic development of power sector in India, firstly it is the lack of envisaged industrial growth during the last decade. If we compare industrial operating ratio of 2008 to the present financial year, most of the sectoral growth is on the negative side with a continuously declining trend. This had affected the power sector worse. There are more than 60% of commercially operationalized power plants in India that are operating either with below benchmarked PLF or worse than that.

Secondly there is a lack of vision and courage of regulators to implement provisions of law with stringent directives. In most of the cases regulators do not act in a time bound manner to resolve private generators’/consumers’ difficulties causing derailed growth factor. Thirdly lack of proper planning and implementation strategy due to which, many of the power generating plants across India are facing stressed progress.

Now the Govt. of India (GoI) has initiated implementation of new schemes to fight the above scenario. To name few in September 2017 Govt. of India launched “Pradhan Mantri Sahaj Bijli Har Ghar Yojana” for “Saubhagyta Scheme” to provide electricity access to 40 million families by December, 2018. GoI also declared “UJALA Scheme” with the main objective to promote efficient lighting. GoI also announced “Ujwal DISCOM Assurance Yojana (UDAY)” aiming to enable electrification of all villages across India. Government also had launched “Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)” for rural electrification. In July 2017, it also started preparing “Rent a Roof” policy to support its target of generating 40 GW of Solar Rooftop Power by 2022. Last but not the least GoI declared “National Electric Mobility Mission Plan (NEMMP) 2020” with a target of deploying 5 to 7 million electric vehicles in the country by the year 2020.

All the above measures if placed honestly in a time bound manner, give us hope to see through an all round revival of power market in India. With this envisaged revival, definitely the power market will regain much of its lost lustre. Implementation of all policy measures and regulatory enactments with positive spirit will also encourage increased market participation and better operational achievement. Once it happens, IPTPL as an established power trader is confident to mark the breakthrough of achieving its desired level of success. Presently IPTPL is dedicatedly working for reduction of net power procurement cost of its distribution arm India Power Corporation Limited (IPCL). It is
also exploring feasibility of selling power under long/medium and short term from its other two generating units namely Meenakshi Energy Limited (MEL) and Hiranmaye Energy Limited (HEL). In the coming days its’ also exploring the possibility of providing trading platform for other generators/consumers on a pan India basis.

Chairman’s visit at J K Nagar

J K Nagar Control Room

Article contributed by Mr. Indu Bhushan Chakraborty, VP - IPTPL
Awareness Program in Asansol

India Power Corporation Limited in association with the United Religions Initiative organised an Electricity Safety Awareness campaign at Genexx Exotica, Asansol, one of the premium housing societies of the city. The campaign was organized with the objective to educate our consumers on safe practices related to electricity and usage of electrical appliances, power theft and energy conservation through street plays. A drawing competition was also organised keeping electricity conservation in mind to involve the budding minds as well.

IPCL officials including Mr. Amit Mitra, AVP - Business, Mr. Apurba Ghoshal, Consultant-220 KV Substation, Ms. Kakoli Chaudhuri, AGM - BD & Sales, Mr. Debraj Saha, and Chief Manager - BD & Sales were present at the event. Mr. Mitra shared his excitement saying, “We are extremely pleased to conduct such social awareness programs with our consumers. Consumer satisfaction has always been our main focus & creating awareness about important issues such as these is an integral part of the whole exercise”.

Consumer Meet 2018

India Power Corporation Limited has always valued its customers and all other stakeholders. Like last year, the company organised a Consumer Meet Programme to interact with its consumers to understand their requirement better and share with them the organisation’s performance & achievements in the recent years and plans to boost service in the coming years.

Mr. Sanjeev Seth, CEO, IPCL; Mr. Debashish Sarkar, Business Head, Asansol; Mr. Amitabha Saha, Vice President, Business Development, and Mr. Amit Tapan Mitra, AVP were present at the event to represent the organisation. They talked about the company’s go-to-market approach, cluster & segment focus in Raniganj, Asansol Bazar & Murgasol, while also focusing on the technological advancement made with IoT intervention, automated DT monitoring, SCADA & Smart Metering.

To provide a clearer understanding on the quality of service offered, they also shared the information that there’s been a T&D loss of less than 3% vs a National Average of 22%. With a billing efficiency of 100%, the reliability Index has shot up to more than 99.5% and AMR implementation being 100% (for HT Users).

The consumers praised the organisation’s quality service and expressed delight on having easily accessible customer centres in various locations.
Musical Evening by Gopalpur Social Welfare Organization

Being established a one of the leading power distribution companies of Asansol, India Power has always come forward to support socio-cultural initiatives. India Power has become an integral part of Asansol after walking hand-in-hand for 99 years. The company takes immense pleasure to be associated and engaged with several social activities organised by the local organisations.

On May 18, 2018, the Gopalpur Social Welfare Organization organised a musical evening at Manoj Talkies, Gopalpur, Asansol and India Power wholeheartedly supported and attended this event as one of the brand partners. Ms. Aditi Munshi was the key performer at the event, which was graced by the presence of eminent dignitaries and more than 200 local residents.

Yoga Day

The origins of yoga have been speculated to date back to pre-Vedic Indian traditions. It gained prominence in the West in the 20th century. Yoga gurus from India later introduced yoga to the West following the success of Swami Vivekananda in the late 19th and early 20th century. In the 1980s, yoga became popular as a system of physical exercise across the Western world. Yoga in Indian traditions, however, is more than physical exercise; it has a meditative and spiritual core.

21st June is celebrated as “World Yoga Day”. This year we have celebrated the Yoga Day on 20th June with all the employees of India Power and group companies at the cafeteria of India Power’s Salt Lake Office (HO).
IUPS at the Annual Bangladesh Energy & Power Summit 2018

India Uniper Power Services attended the 2nd Annual Bangladesh Energy & Power Summit 2018 at Dhaka on June 26-27, 2018 and exhibited the IUPS offering for Comprehensive Power Plant O & M, Power Plant Optimization Digital Solutions, Asset Management, Power Plant Engineering Expertise etc. The summit was attended by global exhibitors of power and energy domain with overwhelming response and visits by Bangladesh Power Plant Owners, Operators and Intellectuals.

IUPS stall was visited by Dr. Tawfiq-e-Elahi Chowdhury BB, Advisor (Power, Energy & Minerals) to the Prime Minister of Bangladesh, Mr. Mohammad Hossain, Director General, Power Cell-Power Division and various dignitaries. Mr. Pankaj Kumar Bagre, GM - Commercial attended the summit on behalf of India Uniper Power Services.

India Power partners with MCCI for the East India Energy Forum

The Merchant Chamber of Commerce and Industry presented the MCCI East India Energy Forum on 8th June, 2018 at the Lalit Great Eastern Hotel, Kolkata on “Eastern India Power Sector-Creating Vision for the Future” in partnership with India Power Corporation Ltd.

The Forum was inaugurated by the Chief Guest and the Hon’ble Minister of Power and Non-Conventional Energy Sources, Govt. of West Bengal - Mr. Shovandev Chattopadhyay. The plenary sessions featured topics like “Coal - The Mainstay of India’s Energy & Energy Security Mix”, “A leap towards sustainable power in Eastern India” and “Renewables: Enabler for Sustainable Growth”. On behalf of India Power, Mr Debashish Das, VP-Regulatory, gave his discourse on the topic of the day and shared some insights on the same.
SEMINAR AND CONCLAVES

NIPM’s International HR Conference 2018

The National Institute of Personal Management organized their International HR Conference 2018 on 6th & 7th June, 2018 at “Bandarnaik Institute of International Conference Hall” at Colombo where Mr. Somesh Dasgupta, President India Power Corporation Ltd and the National president of NIPM were invited as the esteemed panellists. The panel discussions included relevant topics like “To Create HR Practice etc. and Future of HR in the World of Digitisation”. Mr. Dasgupta also actively participated in the National HR Excellence Award conducted by the organisation.

Joint Audit Conclave 14th & 15th June 2018

The company nominated Mr. Ashish Bose & Mr. Sanjib Pal to attend a Joint Audit Conclave (JAC) of The Institute of Internal Auditors (IIA), that was held at Hotel Lalit Great Eastern, Kolkata, on the 14th and 15th June, 2018. The theme of the conclave was “The Metaphorical Race between Audit and Fraud”.

The conclave was arranged to discuss and educate the audience about the various fraudulent activities in almost all spheres of organizational hierarchy and the methods used by auditors to prevent such activities. In this edition of the JAC, the technical sessions dealt with topics such as: Psychology of White Collar Fraud, Red Flags of Employee Fraud, Assessing a Company’s Fraud Risk Culture, Fraud Detection using Artificial Intelligence, using Block Chain for Fraud Assessment and many others.

IPCL’s Participation at the Strategic Facilities Management Summit 2018

Mr. Somesh Dasgupta, President, India Power participated in the Strategic Management Summit 2018 presented by the Economic Times on 28th & 29th June, 2018 at Mumbai. The summit featured Artificial Intelligence to Deliver New Values in Facility Management, Transitioning from Minor to Major: Organizing the Unorganized, Maintaining Ageing Assets & Infrastructure, Building Automation: To Build Truly Intelligent Buildings, Facilities Management in a Service Supply Chain Perspective, Corporate Asset and Workspace Management: Highlighting the Challenges & Opportunities, Training the Untrained: The next generation of Facility Management Profession, Vendor Contract Management and many more.
Smart Outdoor and
Connected Indoor

The New Horizon of LED Lighting Infrastructure, IoT and Human Health

Indian Chamber of Commerce (ICC) organized the Summit on Lighting and IoT with the objective to augment the vast scope of lighting industry in Eastern India on 29th June, 2018 in Kolkata. The primary focus areas of the seminar were The Research and Development in Solid State Lighting, The Internet of Things (IoT), Lighting Infrastructure and IoT combination, LIFI Technology in Indoor Lighting, Human Centric Lighting (HCL), Smart Street Lighting and the Conservation of Energy, Interaction with the Technology Experts, Consultants and Lighting Designers, B2B Platform, Business Opportunity and Project Management Opportunities.

Mr. Sourav Mullick and Mr. Sandip Saha participated in the seminar and marked the presence of India Power as one of the esteemed delegates among other major lighting companies, lighting consultants, lighting project management companies, lighting industry channel partners of Eastern India, Government Departments of Eastern India, decision makers and influencers of organizations like Indian Railways, Metro Railways, SAIL, ONGC, Hotels and Hospitals, Municipalities, Banks, BPO, IT companies like TCS, Accenture, Cognizant etc.

National Conference on “Modern Trends and Accident Prevention in Distribution and Power Transformers”

The Central Board of Irrigation and Power had organised a conference on the “Modern Trends and Accident Prevention in Distribution and Power Transformers” on 21st and 22nd June, 2018 in Kolkata.

Mr Arnab Kumar Chattopadhyay from the Testing Department of IPCL participated in this conference where he primarily delivered his discourse on the different Safe Operating Procedures, design aspects to prevent fire and Proactive, out-of-the-box approaches for Fire Extinguishing and some modern technologies.

“As far as the take away from the conference goes, we have had many scopes to implement many panel discussions based on various practices in different companies for empowerment of women in the workplace. The conclave concluded with an open discussion with panelists Ms. Rita Bhimani, CEO - Ritam Communications, Dr. Chandrima Banerjee, Director Unigro Solutions Pvt. Ltd., Mr. Rupak Barua, CEO AMRI Hospitals and Mr. Somesh Dasgupta, President IPCL.
things in our Power Transformers, Distribution Transformers with respect to their Design, Erection and Fire Fighting Technique for Accident Prevention.” – said Mr. Chattopadhyay.

India Power at the Ceylon Electricity Board, Sri Lanka

India Power got a special invite from KPMG, Sri Lanka to visit their client Ceylon Electricity Board, Sri Lanka, and share insights on the best HR practices.

Mr. Gautam Saha, GM - HR, represented our company at this international platform and shared his ideas about the best HR practices from the point of view of a HR practitioner of one of the major power utilities.

Eastern Regional Power Committee (ERPC) Meeting

The 38th ERPC meeting was organized on 29th & 30th June 2018, which had the primary focus on topics including Performance of Eastern Regional Grid, Installation of PMUs for observation of the dynamic performance of Statcoms, Replacement of old RTUs in Eastern Region for reporting RTU/SAS to back-up control centres, Reliable Communication Scheme under Central Sector of Eastern regions, Study of Reactive Energy Charges payable by EBSETCL system, Corporate Social Responsibility (CSR) initiatives by ERPC, Flexibility in Generation and Scheduling of Thermal Power Stations to reduce emissions, Implementation of Differential Protection for Short Distance Lines, status of implementation of new islanding schemes in Eastern region, Automatic Under Frequency Load Shedding (AUFLS), Transfer Capability Determination by the States and Restricted Governor/Free Governor Mode operation of generators.

India Power Corporation Limited, being a member of Eastern Regional Power Committee (ERPC) participated in this pivotal meeting which was attended by Mr. P.K. Ghosh, Advisor - IPCL and Mr. Debashis Sarkar, Business Head - IPCL.

The People Management Conclave by BCC&I

The Bengal Chamber of Commerce & Industries organized “The People Management Conclave: Metamorphosis of People Management in Disruptive Era” on 21st April, 2018. India Power President, Mr. Somesh Dasgupta, being Chairman of the People Management Committee of BCC&I, delivered his welcome address and Industry stalwarts were among the other esteemed speakers.
Seminar on Women Empowerment at Globsyn Business School

The Globsyn Business School organised a one-day workshop on Women Empowerment where eminent personalities from the Corporate as well as academic field were invited to be the eminent speakers of the day. The workshop primarily focused on the immediate requirement of addressing women’s rights at the workplace which may not only be limited to a sexual oppression.

The workshop was pro-actively attended by Mrs. Debapriya Das, Ms. Mrinalini Chaudhuri, Mrs. Shalini Mukherjee and Ms. Barnali Biswas.

Seminar by CII on “Corporate Social Responsibility: Stakeholders’ Engagement”

Confederation of Indian Industry (CII) in collaboration with United Nations Children’s Fund (UNICEF) under the aegis of CII-UNICEF CSR Hub a CSR Consultation titled “Corporate Social Responsibility: Stakeholders’ Engagement” on 30th May, 2018. Mrs Bonnya Bose, DGM - PR & Communications attended the seminar to mark the presence of India Power Corporation Limited.

The CSR Consultation deliberated on the need for interventions in areas pertaining to Social Development. The deliberations mostly concentrated on the need to promote focused intervention in the areas of child nutrition, livelihood generation, and sanitation by corporate houses under their CSR agenda. Ms Choten Lama, IAS, Secretary, Panchayat & Rural Development; Ms. Sanghamitra Ghosh, IAS, Secretary, Women and Child Development and Social Welfare Department, Government of West Bengal; and Ms Ananya Chakraborti, Chairperson, State Commission for Protection of Child Rights, Government of West Bengal, were invited for the deliberations.

“You get in life what you have the courage to ask for.”
Oprah Winfrey
CORPORATE
SOCIAL
RESPONSIBILITY

GAYA

Donating Water Purifier to New Vision School, Gaya

India Power Corporation (Bodhgaya) Limited donated a water cooler and purifier to New Vision School, catering to the infrastructural development as well as safe drinking water for the students and other staff of the school. This will not only ensure the healthy life of the students but also have a direct effect on their regularity in school and education.

The inauguration of the purifier was done on 29th May, 2018 in the presence of DSP (city,) Shri Rajkumar SAV (BPS) and India Power officials including Mr. Devendra Verma, Mr. Sunil Mishra, Mr. Manash Kumar Nayek, Ms. Shalini Mukherjee, Mr. Tapan Kumar Das and Mr. Ajay Kumar.

Renovation of Bageshwari Park

India Power has adopted Bageshwari Park under its rural development projects and taken up the responsibility of renovation and beautification of this park which was previously in a grim condition. The park is situated in Bageshwari More of Gaya. Shri Ganesh Paswan, Mayor- Gaya inaugurated the park in presence of India Power officials Mr. Sunil Mishra, Mr. Manash Kumar Nayek, Ms. Shalini Mukherjee, Mr. Tapan Kumar Das, Mr. Rajesh Prabhat and Mr. Ajay Kumar.

ASANSOL

Medical Camp in Asansol

India Power partnered with United Religions Initiatives India and organised a free medical camp at Kalyan Nagar Community Hall in Ushagram, Asansol on 20th May, 2018. The entire program was organised with the objective to serve the people of Asansol.

Dr. Masud Hasan, Skin Specialist from SD Hospital, Asansol, Dr. M.K. Mondal, General Physician, Dr. Satyen Sannigrahi, General Physician and Gynaecologist were invited to conduct the camp. 163 registered patients were provided with required treatment, medicines and tests. Medical support included 25 Blood Sugar tests, medicines like antibiotics, iron, folic acid, vitamins, anti-inflammatory, antiviral, skin care ointments etc. Besides, special nutritional guidance depending on the height and weight of the patients, was also provided to each and every patient who attended the camp.

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NELLORE

MEL to Lay CC Roads

In a bid to provide better road connectivity to neighbouring villagers, Meenakshi Energy Limited will lay 330 metres CC Road at Momidi Gram Panchayat (MEL) under its Corporate Social Responsibility (CSR) Rural Development initiatives. Chief Executive Officer (CEO) Shri Kamal Kant on 14 June 2018 commenced the work by laying foundation stone. Speaking after Bhoomi Puja, the CEO said that Meenakshi Energy Limited is committed to implement CSR initiatives in its neighbouring villages. Local villagers, Head, Procurement & Contract Shri Mrityunjay Poddar, Head - PR & CSR Shri K. Mrityunjaya Ram, Chief Manager (Civil) Shri Peela Venkata Ramana and others attended the programme.

HALDIA

Health & Hygiene Awareness Program for Women in Need

The primary challenge of health and hygiene is the lack of awareness which gives rise to health issues in women that can be avoided with subtle lifestyle changes and maintaining hygiene. HEL organised an awareness program on Women’s Health and Hygiene issues for the village women where Dr. Sutanuka Santra, MBBS, MD, Community Medicine, was invited to guide the women towards a healthier and happier life. 80 village women turned up for the Awareness Program which was organized on 25th May, 2018 at Tetulberia Shyamarai Primary School, Haldia. Officials of HEL were also present at the program.

Distribution of Sarees to Marginalised Women

Clothing is counted as one of the basic needs of living after food and shelter. Hiranmaye Energy Limited took up the initiative to distribute sarees among the economically backward and marginalised women residing in the adjoining villages of Haldia. This social welfare program was organised on 23rd April, 2018, at Gunjan Sangha Club, Kismat Shivram Nagar where officials of HEL were present and handed over the sarees to the beneficiaries.

World Environment Day Celebrations

With the objective of beating Plastic Pollution, HEL celebrated World Environment Day on 5th June, 2018 at the HEL Plant area. The programme was graced by the presence of Chief Guest Dr. Reshmi Kamal, District Magistrate & Collector, Purba Medinipur, IAS, SDO- Haldia, Pashim Banga Vigyan Mancha-Haldia, Officers of West Bengal Pollution Control Board, OC Bhabanipur Police Station, Local Councillor, Mr. Jyotirmay Bhowmick,
Director – HEL and other officials of HEL. Students of Sapua High School presented a small play in tune with the day’s objective of preventing and eradicating plastic pollution. On this very occasion plantation drive was also organised where all the eminent guest and HEL officials planted saplings in the plant area.

Single use plastic bags are a ticking time-bomb for the environment
Tips to cut power bad loans

NEED OF THE HOUR

When asked for suggestions on what the industry is currently facing, Mr. Hemant Kanoria, President - Renewable Business, Renewable Business, said that the current financial situation of the power sector is critical. "The need of the hour is to cut power bad loans," he said. "This is a critical issue that needs to be addressed urgently." Mr. Kanoria highlighted that the industry is facing a significant challenge due to the high percentage of bad loans. He emphasized the importance of proactive measures to prevent further deterioration of the situation.

Chairman - India Power, Mr. Hemant Kanoria gives an Interview to The Telegraph_20-06-18

CEO - IPCL, Mr. Sanjeev Seth in the Q&A section of Electrical Mirror

"Power industry is under positive stress" - Anand Bansal, CEO, India Power Services

"Renewable will continue to evolve and simultaneously consolidate in India" - Rajat Vijay Seksaria, President, India Power Company Limited, in EPC World

"The Center should push states to bring in new models of JIP and private participation in the distribution sector." - MD - India Power, Mr. Raghav Raj Kanoria in Business Economics June 2018
NEWS AT A GLANCE

What Memant Kanoria suggests

- Identify sustainable and unsustainable portions of the debt
- Convert unsustainable portion to long term redeemable preference shares

It is our pleasure to be recognised and certified as a

Certified by World Class Institute

This is to certify that INDIA POWER CORPORATION LIMITED has successfully completed the assessment conducted by

Great Place to Work® and is certified as a great workplace
to the company Head and India Office in

This certification was received on 11th of August 2018.
At IPCL, a holistic development of ability, skills and knowledge is vital for both the employee and the organization.

Training Programmes have been identified, based on the Training Need Identification exercise for the employees at various levels and further divided into Functional and Behavioural Skill. Trainings on multiple topics are organized every month and the employee in consensus with the respective supervisor based on his developmental needs, participates in the trainings. Moreover, employees are encouraged to attend Conferences, Workshops and Seminars related to Power industry, and relevant skill sets to enhance their knowledge and capabilities. Learning & Development Team at IPCL is the custodian of the process, and is committed to enhancing employee competency for continued business success.

**NEGOITIATION SKILLS:** A training focusing on the right ways of negotiation, providing insights on problem solving or finding creative solutions.

**TIME MANAGEMENT:** A one day fun filled training equipping participants on the difference between urgent and important tasks, and range of time management techniques applicable to life.

**DECISION MAKING:** An insightful module which helps the participants to make the best possible decision in every workday, even under pressure.

**Prevention Of Sexual Harassment (POSH) at Workplace:** An on going session to create awareness on building a respectful and healthy workplace for all genders, working together.

**INTERPERSONAL & INFLUENCING SKILLS:** A module which will enable the participants to understand and adapt to others’ communication styles and behaviour pattern, listen and influence more effectively.

**ANALYTICAL & PROBLEM SOLVING:** A module aiming to help the participants in developing effective problem solving skills to analyze problems, identify problem severity and assess the impact of alternative solutions.

**TRANSLATING VALUES INTO BUSINESS:** A dedicated module to educate all employees in understanding the 10 critical competencies at IPCL, in an enjoyable manner.

**An Unique Workplace Skills Workshop**

Leaders at IPCL, analyzed whether providing soft skills training to sub staff and staff employees could improve their workplace outcomes, and concluded that trained employees have higher chances of being productive than those who did not receive the training in soft skills.

A 2 month programme to up-skill sub staff employees on *professionalism, workplace etiquettes, communications, and digital literacy*, followed by a robust evaluation and reward mechanism, has been designed and named **UNNATI**.
POILA BOISAKH

This year we celebrated the Bengali New Year / Poila Boisakh on 17th April, 2018 at Cafeteria with all our H.O employees.

To make it memorable we asked all employees to come in traditional attire and played few fun games for making the day more interesting.

Fun Games:

1. **Best dressed employee**
   Winner: Mr. Sanatan Barman in Male Category & Ms. Shalini Mukherjee in Female Category

2. **Painter of the Day**
   Winner: Ms. Tithi Dey

3. **Sweet Tooth**
   Winner: Mr. Bibek Saha

4. **Hit the Bull’s Eye**
   Winner: Ms. Tandra Gautam
MAY DAY

1st May is celebrated as International Labour Day or Workers’ Day worldwide (including India) and is often referred as May Day for the working employees / people. This movement was led by United States and in India the movement started from May 1, 1923.

So we thought of celebrating 1st May with the USA endorsed and world-wide accepted uniform/ dress code. In recent times it’s difficult to find a garment as widely embraced, worn and loved the world over as Blue Denim Jeans which has slowly become a part of corporate culture too.

So May month’s Formal Attire Day (FAD) theme was Blue Denim Jeans and White shirt for all the employees.

FAD

Blue is the colour of Yoga. According to the psychological Luscher Colour Test, pure blue symbolizes “silence is the proper condition of beauty, like the calm of the untroubled sea”. The book further clarifies, “Derived from the Sanskrit, the Pali word Nila has been given to the special dark - Blue colour which has been advised to be the most suitable environment for purposes of meditation.

Considering the fact June is the month of Yoga, we decided to celebrate the Formal Attire Day on 1st June with the theme of Blue Top and Black bottom.

FAD-JUNE

In the month of June we have celebrated our FAD in a unique way, where we have shown our support to our favourite football team by wearing jersey and the outfit with the same colour of our teams. This was initiated keeping in mind the FIFA World Cup 2018.
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Visibility drives in Asansol

Fortune Magazine - June Issue
HAPPY CHILDREN'S DAY.... TO ME
Ms. Shalini Mukherjee, Executive - PR

A grown-up body with a broken heart
And a stressed mind inside

Trying to act mature to fit in and coincide

Drowning into the dark well of loneliness sinking into depression,
Through poetry let's make this confession

A well-groomed body and pleasant persona outside

I still have a child deep within,
Sobbing Inside!

SYMPATHY
If I were only a little puppy, and not your baby,
Mother, dear,
Would you say “No” to me if I tried to eat from your dish?
Would you drive me off, saying, “Go away you naughty little puppy”?
Then, go mother go,
I will never come to you when you call me;
I will never let you feed me anymore!
If I were a little green parrot, and not your baby,
Mother, dear,
Would you keep me chained, lest I shall fly away?
Would you shake your finger at me and say,
“What an ungrateful wretch of a bird”,
“It's gnawing at its chain day & night”?
Then, go mother go!
I will run away into the woods,
I would never let you take me in your arms again !!!

English Translation of Bengali Poem
“SNOMYATHY” written by Rabindranath Tagore
Translated by Ahana Chattopadhyay, Class : VII;
Daughter of Arnab Kr Chattopadhyay, Chief Manager (Testing), Asansol
FOR A SMARTER TOMORROW