

# #CS2



CELEBRATING  
**50**  
— YEARS —

## e=CS<sup>2</sup>

Newsletter  
Volume-XI  
2016

## C&S Electric Celebrates its 50th Anniversary



Our heartiest congratulations to all members of the C&S Electric family - including channel partners, suppliers, employees and all our families - on the 50th birthday of your company. It is truly a milestone which all of you should be proud of and celebrate.

Our commitment to our core values, vision and mission is strengthened in this special golden jubilee year. We will indeed stretch more for our customer. We will be more obsessed with the quality not only of the product but the

entire customer experience. Our commitment towards being a workplace of choice in the industry is stronger than ever. And the "Made in India"/ "Make in India" resolve remains close to our heart and to the company's philosophy.

In the last few years, we have also transformed from an entrepreneurially led family business to a professionally managed institution steered by a spectrum of leaders filled with entrepreneurial passion. Together with these leaders we have embraced a culture of high performance, transparency, accountability, teamwork and a high standard of ethics. A great source of joy for us is that the founding values and the fresh beliefs have all been integrated into the ethos of today's C&S Electric.

Despite unenthusiastic economic environments, C&S has continued to explore new avenues of growth, while maintaining a sensible financial prudence which has allowed the company to emerge stronger than ever before.

Today India is poised to play a significant role in the global economic landscape, and we firmly believe that we at C&S Electric are positioned well to be a part of this journey. Celebrating this achievement, we would once again like to express our gratitude to everyone for making C&S Electric the success it is today.

But this is only the beginning. Together we shall make great strides in this journey in the years and decades to come.

**Anuj Khanna, Rishi Nath Khanna & Aditya Khanna**  
Managing Directors, C&S Electric Limited



In this golden Jubilee year, it is only natural for our thoughts to go back to the last 50 years journey of C&S Electric.

From the time of founding the company, in the garage of our family home, a lot has transpired and a lot has changed.

But some things remain very much the same. These are the basic values of product excellence, customer centricity, empowerment of people, and enjoyment and enthusiasm in daily work.

Remember always that when it comes to teaching and sharing values-actions speak much louder than words. How you actually behave, respond or take charge in any situation – will influence others. It has the power of creating a chain reaction of positive energy. May you all continue to live by these values.

It is said that "Enthusiasm" is contagious, but so is the lack of it. May the light of enthusiasm continue to glow bright within all of you.

On this momentous occasion we wish all members of C&S extended family, heartiest congratulations, and many successes in years to come.

Regards and blessings always.

**R. N. Khanna, Ashok Khanna**  
Founders, C&S Electric Limited

We touch your electricity everyday!



1966



C&S Electric's journey started from a garage in 1966



R.N. Khanna an IITian from Kharagpur, after 4 yrs. of working at FANAL returns from Germany to pursue his dreams



Mr. Ashok Khanna receiving Solar Award from Govt. of India



Mr. Rishi Khanna, MD, C&S along with Industries leading luminaries in a seminar on Make in India at Hannover Messe, Germany



C&S Electric Stall at Hannover Messe 2016, Germany



C&S Chairman Mr. R. N. Khanna receiving "Industrialist of the Year 2008 Award" from Hon'ble President Pranab Mukherjee, then Union Minister of Economic affairs



C&S Electric Team at Elecrama 2014



C&S Electric celebrated its 50th anniversary at Tranquility, Sohna



50th Anniversary day celebrations. A day to share glorious moments



Muskan, an initiative by C&S Electric along with NGO for upliftment of underprivileged children



C&S products are exported to more than 85 countries



Members of WINtrip Power Club. A Club for Electrician Training



UL approved testing Lab at Noida



Winner of CSPL - a C&S Interdivisional Cricket Tournament

We touch your electricity everyday!



# Celebrating 50 Years



We touch your electricity everyday!

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## Key Milestones



- R.N. Khanna, an IITian from Kharagpur, after 4 years of working at FANAL returns from Germany to pursue his dreams

- Controls & Switchgear is founded in the garage of his father's house

**1966**

- His younger brother, Ashok Khanna on completion of his engineering at IIT Madras, joins in 1967

- Incorporation of The Controls & Switchgear Company

- Attains market leadership in road signaling devices
- Starts making inroads into large infrastructure projects

**1966-82**

- Works on many key defence jobs including nuclear submarine projects and the first Leander Class Warship Frigates for Indian Navy

- Indigenous development of Push Buttons & Pilot Lamps required for automation panels

- Technical collaboration with ABB Stromberg-Finland for manufacturing of Switches, Fuses, SFU and Changeover Switches



- Formed Joint Venture with Telemecanique for Controlgear business in India



**1982-86**

- Entry into Air Circuit Breaker business with technical know-how from Terasaki Electric, Japan

- Designing and manufacturing of Busduct started with technology from SIMELECTRO - France



- Designed and developed Low Voltage Busbar system



- Started manufacturing of Control, Protection, Automation Relays and Alternators in JV with AVK - SEG, Germany



**1990-94**

- Formed JV with Wago-Germany for Terminals blocks manufacturing



- Signed JV with RS components - UK, for mail order electrical component distribution business



# 10X in the last 10 years *and still rising...*



- Second generation - Anuj, Rishi (1998) & Aditya (2005) join the business
- Increased thrust on export business
- JV with Leroy & Somer for Alternator Business.
- Acquired 100% share of Electronic Relays business

## 1995-2005

- Acquired controlling stake from Schneider in TC Joint Venture
- Contract manufacturing started, Busbar range completed
- 100% EOU started at Noida
- Formed C&S Gewiss JV for Lighting & Wiring Accessories with Gewiss - Italy



- Establishment of R&D center, SEZ facilities
- Growth of 40% for three years in a row

## 2005-08

- Setup JV with Himoina of Spain to manufacture Diesel Generating Sets



- Enters medium voltage business through a JV with Efacec of Portugal



- Three strategic independent entities merged into a newly rebranded company C&S Electric Ltd.

## 2008-11

- Inducted GE capital as private equity partner. C&S raised ₹100 crore with intention to explore inorganic growth
- Set up a new LV switchgear plant in China



- India's 2nd grid connected Solar PV power plant designed, developed and established by C&S Electric Ltd. in Haryana



- Acquired Netherland based Etacom, with this acquisition C&S Electric offers the widest range of Power Busbars amongst any manufacturer in the world

## 2011-16



## Etacom

- Acquired 100% shareholding of Medium Voltage Switchgear Business with Efacec
- New UL approved R&D lab established at Noida



# Landmark Orders

## C&S Electric Limited bags one of the largest export orders for Busducts

C&S Electric has won biggest ever export order for supply of Low Voltage & Medium Voltage busducts to KNPC (Kuwait National Petroleum Corporation) CLEAN FUEL PROJECT through Petrofac - Sharjah.

The order is awarded by consortium partners of Petrofac - Sharjah + Samsung - Korea + CB&I - Netherland. This order is bagged under stiff competition from leading power busbar manufacturers. The order comprises of 2477m Low Voltage & Medium Voltage Non-Segregated phase copper busbars busducts.

KNPC's Clean Fuels Project involves the upgrade and integration of the Mina Abdullah (MAB) and Mina Al-Ahmadi (MAA) refineries.

## C&S Electric partners the technology: Supplies Power Busbars to leading data centres and infrastructure

C&S Electric is proud to power all 4G data centres of Reliance Communications. The Company will supply its Bustrunking products to Jamnagar, Chennai, Hyderabad, Mumbai and Nagpur data centres of Reliance Communications. In addition, the company also won supply order from Sify and Net Magic data centres in Bengaluru.

The company has also bagged supply order for Bustrunking from UPRNL for the prestigious Lucknow High Court project. Furthermore, the company won supply order from HERO MotoCorp for its Jaipur and Halol plants.

## C&S Wins Cast Resin Busbar order from Chennai Port Trust

C&S Bustrunking domestic division has received Betobar - Cast Resin Busbar order from Chennai Port Trust. The product shall be completely indigenous and produced in C&S's Haridwar manufacturing plant. Earlier for Indian supply, the product used to be imported from C&S Etacom plant located in Belgium. Betobar is a rock-solid solution for power distribution application and is used worldwide in construction and industrial applications to deliver power and guaranteed continuity of supplies.

## Etacom orders, Making waves globally

- Técnicas Reunidas awarded a supply contract to Etacom for its Talara refinery up gradation project. Talara is Peru's second biggest oil refinery base with a crude oil processing capacity of more than 65,000 barrels per day (BPD or BBL/D). The order comprises a supply of 543m LV and 165m MV busbars to Etacom.
- Etacom won a supply order from IMEC, the leading research company in nano electronics and nano technology. Etacom will supply LV busbars for their new 'clean room' where new processors and electronic components are being developed and tested.
- Etacom grabbed an order for 235m of LV busbars from Enka, a leading construction company in Turkey for their 1,500 MW Baghdad Electrical Power Station project in Iraq.
- GE Plastics, one of the first customers of Etacom Netherlands back in the 1970s, has awarded a replacement order for old exterior Betobar lines, already in use for 30+ years and made out of polyester insulation - the predecessor of cast-resin insulation busbars.
- EnTranCe, the Energy Transition Centre, Groningen (Hanze UAS) has placed an order to Etacom to supply busbar lines with 10 tap-off points to be able to do research on innovations within the energy sector. Each tap-off point can be used for a specific scientific test. The project was successfully delivered in October 2015.

- Petrofac ordered 230m of Low Voltage betobar-r Busbars for the Central Processing Facility (CPF) for the development of the Khazzan-Makarem gas field located in the Sultanate of Oman.
- Technip ordered 740m of LV+MV betobar-r Busbars with Etacom for Umm Lulu field located in the Arabian Gulf 30 km northwest of Abu Dhabi, UAE. The offshore oil field is being developed by ADMA-OPCO.
- Etacom supplied Low-Voltage Busbars for a total length of 665m to hotel St. Regis, Westin and W-Hotel's three high-rise residential towers commissioned by the Al Habtoor Group in Dubai, UAE.

## Package Substation reaches the Land of Islands, C&S wins supply order from Maldives

C&S Electric has received the first-ever export order for Package Substation from Fenaka for Maldives. The order worth ₹4 crores comprises of supply of 21 package substations. These package substations shall be installed in various islands in Maldives.

This order is a big breakthrough for C&S in a market dominated by multinational giants. Fenaka, an existing customer of C&S, is a 100% government owned utility company with a mandate to provide island communities with electricity, water and sewerage.

## C&S Electric wins IT Switchgear supply order form OPGCL

OPGCL has awarded a supply order for LT Switchgear to C&S Electric for its 2X660 MW Thermal Power Station Project. Odisha Power Generation Corporation Limited (OPGC) is a wholly-owned government company of the state of Odisha with the main objective of establishing, operating and maintaining thermal power generating stations. The products shall be used for upcoming 2X660 MW Thermal Power Station Project at Banharipali, Jharsuguda.

## C&S installs Solar PV Power Plants at Samrala, Punjab

C&S Solar division has successfully designed, supplied, installed, tested and commissioned a grid-connected metal solar rooftop photovoltaic power plant at Samrala, Ludhiana district in Punjab with an aggregating capacity of 115 KWp. In addition, the company also completed the successful installation of grid-connected rooftop solar photovoltaic power plant at Hotel Gill Regency, Samrala.

## C&S Electric partners DTC in clean energy initiative: Install Solar PV Power Rooftop Plants

C&S Electric has successfully commissioned, designed, supplied, installed and tested grid-connected rooftop solar PV power plants at various DTC depots rooftops, having aggregated capacity of 347KWp. The grid connected rooftop solar PV power plants are commissioned at the following depots:

- Hari Nagar DTC Depot – 75 KWp
- Wazirpur DTC Depot – 68 KWp
- BBM DTC Depot – 204 KWp

The project was awarded by Delhi State Industrial and Infrastructure Development Corporation Ltd. (DSIIDC). The plants have been commissioned one month in advance before stipulated date of commissioning.

## C&S bags SMC Awas Yojana Housing Project

C&S Electric has received a supply order for FDP product range from Surat Municipal Corporation for its famous SMC Awas Yojana Housing Project. Under this project, total 5565 houses would be constructed.

Do you Know?

1966

C&S Electric was founded in 1966 by Mr R N Khanna at his father's Garage



## facility update

### Etacom plant adds up new machinery: Augments the facility to serve better

Etacom has made significant investments in new machinery to further improve and speed up the production process at the factory in Boom, Belgium. A new semi-automatic band saw machine has been installed to cut different types of metal. The digital metre display (patented mitre system) in the machine allows an angle cutting accuracy of up to 0.1mm. Thanks to its high sawing speed, the machine is able to cut upto 150m of length per minute. In addition to this, a new bucket filling system was introduced into the factory. The system consists of:

- A weight-reading indicator, rendering the precisely required amount of the different types of sand needed to compose the site mixtures.
- A PLC operating system, making it easy to determine the exact amount of sand, contained by different types of containers.



### In touch with tomorrow: C&S added machinery at Noida Plant

C&S Electric has introduced new machines in its production lines to enhance and improve the productivity. It has recently included semi-automatic Magnet Riveting Machines, which help in higher productivity, quality consistency and effective utilisation of resources.

The company has also installed Compression-cum-Transfer Molding Machines and Injection Molding Machines to improve the production efficiency.

The company has also installed a brand new CNC EDM machine to improve its tool-making capacity with higher efficacy and accuracy. In addition, new sensors are installed for Spot Welding Machines to avoid finger injury of operators during operation.

### Improved Testing facilities at Noida plant: Enhances efficiency and productivity

To augment its existing testing facilities for power contactor product range, C&S has installed automatic contactor test panel for higher reliability and productivity. In addition, a new 45 mm Frame Contactor Computerised Test Panel is added to the existing testing facility for the quality examination of products. It has also installed Surface Roughness Tester to verify polar surface of magnets.

### C&S Electric opens up new warehouse facility in Delhi

C&S Electric has opened up its new warehouse facility at Rithala, Delhi. The warehouse will help in speedy deliveries to customers in the Delhi region. This is C&S Electric's second warehouse in NCR. The company already has warehouses in Noida, Ahmedabad, Mumbai, Bangalore, Indore and Bhubaneshwar. The warehouse is expected to boost the business as it offers improved delivery logistics and better customer satisfaction, not to mention increased customer footfalls.

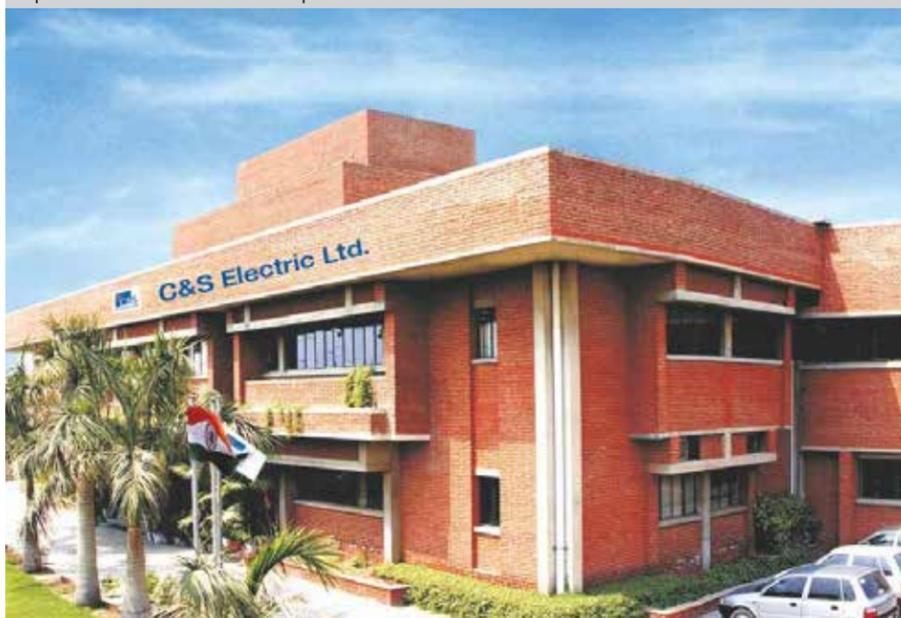


### C&S Electric Lighting Plant shifts to Noida.

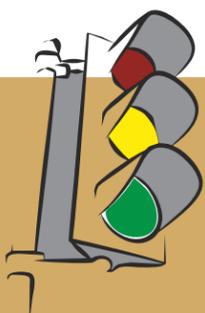
C&S Electric has shifted its Lighting Plant based in Haridwar to Noida. The new location at C-60, Phase II, Noida, offers a larger space and other better functional facilities ensuring smooth operations.

The plant is engaged in the manufacturing of indoor and outdoor lighting products. It has a complete assembly line for lamps and other lighting products. The new facility shall help in fulfilling increasing demand of lighting products.

The lighting plant has also added up Photometric Integrated Sphere for testing of LED lamps on Lumen, CRI, CCT parameters. The new system will help in ensuring production of world-class products.



## Do you Know?



Early in 70's C&S pioneered  
**ROAD SIGNALING**  
system in India

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## LED High / Midbay Corvus Series

### Introduction

Corvus is a versatile solution for Industrial and Public Spaces. The luminaire is equipped with specially designed heat sink for proper thermal management and long life. Its optical compartment ensures the proper light distribution and optimized photometric pattern.



### Specifications

- Housing material: High Pressure die cast aluminium housing with sealed toughened glass cover provided with low glare, Matt finish, Quad-Elliptical designed reflector
- Mounting system: Suspended type
- Light source: SMD LED array with lens
- Color temperature: Cool white 6500K
- LED Efficacy: > 120lm/W
- System efficacy: Up to 95lm/W\*
- CRI: >80
- Gear: Integrated constant current electronic driver
- Nominal voltage: 240V AC, 50 Hz
- Operating voltage range: 120V-280V
- Operating temperature: -20° to 55°C
- Total Harmonic Distortion: <10%
- Power Factor: >0.95
- Weather protection: IP 65
- Electrical safety: Class I

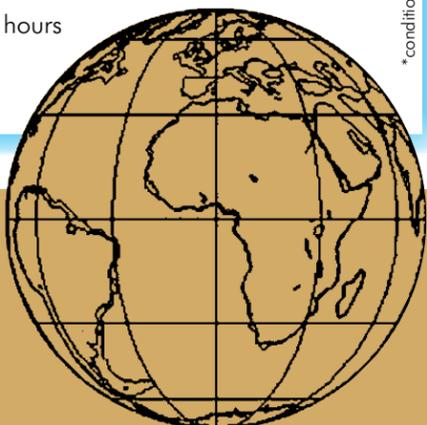
### Applications

- Shopping Malls
- Ware Houses
- Heavy Engineering Industries
- Railway Concourse

### Features

- SMD LED array technology for optimized photometric pattern provided with the secondary lens of Wavelength Matched High-Transmittivity PCCA
- No UV or IR radiations
- Triple protection with built-in Short-Circuit Protection, Overload Protection and Surge Protection
- Unique Tilt-Yes mounting design. Mounting-eyebolt combined with adjustable cradle
- Mercury free: Eco-friendly green technology
- Up to 50%\* energy saving
- Long-life LED: >50,000\* burning hours
- Consistent light output
- Easy to install & maintenance free

\*conditions apply



## LED Street Lights Draco Series

### Introduction

C&S Introduces green, energy-efficient road lighting solution for secondary roads and pathways. The environment-friendly street light, with no mercury content saves up to 50% energy as compared to conventional fluorescent and CFL street lights.



### Specifications

- Housing material: High Pressure die cast aluminium housing with sealed polycarbonate cover & prismatic optics to spread light and reduce direct glare
- Mounting system: Suitable for pole mounting
- Light source: SMD LED array
- Color temperature: Cool white 6500K
- LED Efficacy: > 120lm/W
- System efficacy: >80lm/W\*
- CRI: 80
- Gear: Integrated constant current electronic driver
- Nominal voltage: 240V AC, 50 Hz
- Operating voltage range: 120V-280V
- Operating temperature: -20° to 55°C
- Total Harmonic Distortion: <20%
- Power Factor: >0.90
- Electrical safety: Class I
- Weather protection: IP 65

### Applications

- Secondary Roads
- Pathways
- Parking lots & Yards
- Gated Communities
- Public Parks
- Periphery Lighting

### Features

- SMD LED array technology for higher heat dissipation and optimized photometry
- No UV or IR radiations
- Mercury free: Eco-friendly green technology
- Up to 50%\* energy saving
- Long life LED: >50,000\* burning hours
- Triple Locked with built-in Short-Circuit Protection, Overload Protection and Surge Protection

\*conditions apply

# Do you Know?

C&S products are sold in 85+ countries & it is the **LARGEST EXPORTER** of Industrial Switchgear Products

### SmartSol Mini MCB DP

#### Introduction

C&S Electric introduces SmartSol Mini MCB DP a compact & aesthetic protection device which provides compact protection solution against overload & short circuit with the help of MCB.

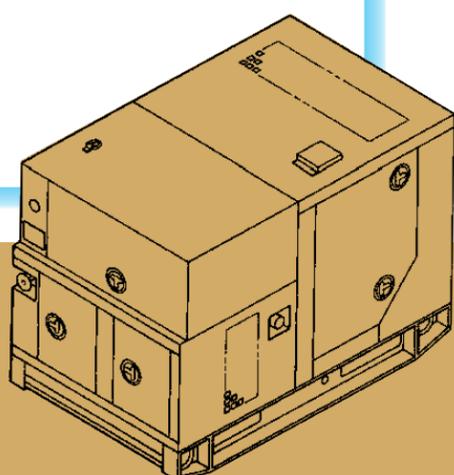


#### Specifications

- Reference : IS/IEC: 60898: Part 1: 2002
- Rated Current In : 6A, 10A, 16A, 20A, 25A & 32A
- Rated Voltage Un : 240V AC
- Rated Insulation Voltage : 660V AC
- Rated Frequency : 50/60Hz
- No. of Poles : SPN/DP
- Rated Short Circuit Capacity : 4.5kA
- Degree of protection : IP 20
- Line/Load terminals : 6mm<sup>2</sup>

#### Features

- Compact & space saving design
- Overload & Short Circuit Protection
- Rapid closing mechanism
- Easy to operate & replace
- Brass terminals on both sides
- Supply indication



### CSEZEN RELAY

#### Introduction

CSEZEN series offers a multi-functional comprehensive smart protection solution for Feeder, Motor, Transformer & Generator segment.

CSEZEN family of protective relays are advance numerical relays that provide multi protection and monitoring with reliable and fast protection solution in a single unit. In this family of CSEZEN series, the CSEZEN-F/M/T is an advanced multifunction protection relay designed for controlling, protecting and monitoring industrial installations, public distribution networks and substations. CSEZEN-F/M/T also provides an automation solution of power control. It complies with IEC 60870-5-103, IEC 61850, Modbus protocol for high integration of protection & control. CSEZEN-F/M/T offers following features in a smart flush mounting enclosure with draw-out features.



#### Application

CSEZEN-F\_M\_T relay will cover wide range of protection functions required for feeder/motor/transformer/generator segment.

#### Features

- Digital Signal Processor based numeric design
- Measures true RMS with DFT filter
- 1A & 5A site selectable
- CT Terminal with self shorting
- 4 Current Analog Input
- 3 Voltage Analog Input
- Max. 16 Digital Inputs
- Max. 16 Digital Outputs
- 14 LED's at Pickup & Trip on fault
- LAN-RJ45/RS-485/USB ports for Communication
- 4.3 inch color TFT LCD / Alpha numeric LCD
- 12 Push button on the front for MMI
- USB with Laptop / Pen-drive OTG interface
- Programmable Scheme Logic (PSL)
- 500 Event Record
- 25 Fault Record
- Comtrade Oscilloscope Record (1200 Cycles)
- IEC 61850, I 1303, Modbus protocol

## Do you Know?

C&S is the first company in India to launch SILENT DG SETS

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## Exhibitions

### C&S Electric Exhibits at Hannover Messe 2016



C&S Electric has successfully exhibited in Hannover Messe from 25th April to 29th April 2016 at Hannover, Germany. The company exhibited its entire range of products including Switchgear, Power Busbars & Lighting products. The exhibition attracted a large number of visitors that showed great interest in the C&S Products & Solutions.

### C&S Electric Participates in Elecrama 2016



C&S Electric has successfully participated in Elecrama 2016 from 13th to 17th February 2016 at Bengaluru, India. The company exhibited its entire range of products including Switchgear, Power Busbars & Lighting products. The display attracted a large number of visitors that showed great interest in the C&S Products & Solutions.

### Etacom Exhibited in ADIPEC 2015



Etacom exhibited in ADIPEC 2015, held in Abu Dhabi from 7th November to 10th November 2015. Etacom displayed the complete range of Power Busbar products including Isobar, Betobar and Metabar. ADIPEC provides a global platform to reach out to leading oil and gas companies.

### C&S Electric Exhibits at Light+Building 2016, Frankfurt

C&S Electric has successfully participated in Light+Building 2016 fair held in Frankfurt, Germany from 13 March to 18 March 2016. C&S displayed its full range of LED Lighting products including LED Bulbs, Tubes, Street Lights, Industrial Highbay & Well Glass and Modular ceiling lights & Downlights. The company also exhibited its Low Voltage product range: MCB & DBs, Switches, MCCBs, ACB, Power contactors and Motor Starters.



### C&S Electric Participated in REI 2015



C&S Electric's Solar Division participated in Renewable Energy India (REI) 2015, an annual exposition, to serve the Indian renewable energy market, held in Greater Noida, UP from 23rd to 25th September 2015. The Solar Division displayed its EPC & engineering consultancy strength in Roof Mounted and Ground Mounted Solar PV Plants solutions.

The exhibition attracted a large number of visitors that showed great interest in C&S Electric's Solar EPC Solutions.

### C&S Electric Participated in China Wind Power Expo 2015

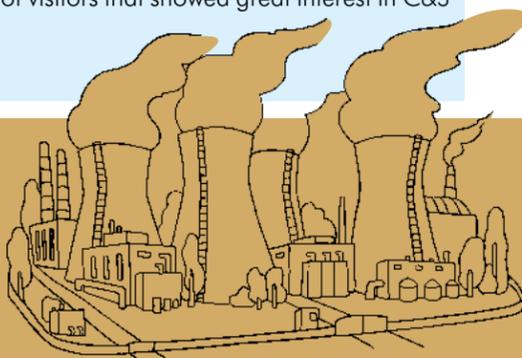


C&S Electric participated in China Wind Power exhibition, an official wind industry event organised annually by GWEC, Chinese Renewable Energy Agency (CREIA) and Chinese Wind Energy Association (CWEA). The fair was organised from 14th October to 16th October in Beijing, China and witnessed a large number of exhibitors from all corners of the world. C&S exhibited its Power Contactor range of products, produced in its China plant at Nantong, China.



C&S Electric also exhibited at the Shanghai Industrial Automation Show held at National Exhibition & Convention Centre, Shanghai from 3rd November to 7th November 2015. C&S displayed its LV Switchgear product range in the exhibition. The display attracted a large number of visitors including key decision makers from the industry.

## Do you Know?



Majority of India's  
**POWER PLANTS**  
trust C&S to  
power the nation

CELEBRATING  
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—YEARS—

We touch your electricity everyday!

## expanding frontiers

### Nepal Dealer Meet

C&S has successfully created a strong distribution network in Nepal for its FDP product range. To celebrate the success, C&S Electric Export Division organised its first ever Nepal dealer conference in Delhi. The conference was attended by dealers and distributors from 35 cities of Nepal. The channel partners visited all C&S manufacturing plants in Noida and Haridwar & appreciated the scale and strength of C&S Electric.



### Customer Care Team Training Program: enhancing skills

The Central Customer Care Team conducted an all-India service review and training program from 12th to 14th October 2015. The program aimed towards the introduction of new products to the Service team and enhancing their skills. The Service team was given hands-on training to serve the customer better, and in a delightful way.



### C&S Electric Dealer Meet at Kolkata

C&S's Kolkata branch organised a retail meet at Hotel Hindustan International to reward and acknowledge the dealers performance in West Bengal. The dealers were introduced to newly-launched C&S products like LED lighting, WiNmaster2 Air Circuit Breakers and the Motor Starter range of products.



### C&S organises Electrician Training Programs

C&S has always been working towards the skill development in India. It is associated with a number of scholarship programs and colleges, promoting technical education programs. To further contribute to the cause in a constructive way, a few years ago C&S founded WiNtrip Power Club for imparting training to electricians. Under this program, C&S conducts training programs across the country and provides a training certificate and accidental insurance cover. It has already enrolled 13000+ electricians under this program. To further take it forward, C&S Electric conducted various electrician training programs at Vashi and Dadar in Mumbai, Visakhapatnam & many other cities across India. The trainees were imparted electrical training and were awarded training & accidental Insurance cover certificates.

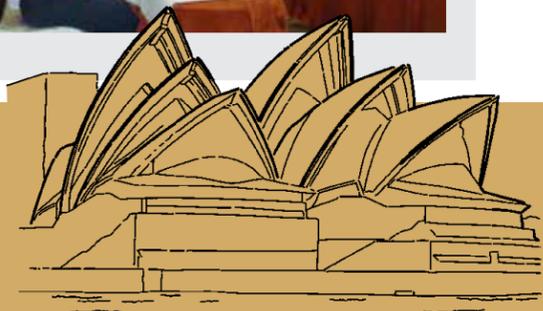


### C&S conducts Level-I Training Program

Level-I Training Program was conducted at Delhi from 6th to 9th June, 2016 for all the new-joiners. Participants from across India attended the program to understand the products, specifications and basic fundamentals of electrical engineering.



Do you Know?



Sydney's famous OPERA HOUSE rely on C&S to switch ON its shows

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# C&S 2



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## Corporate Social Responsibility

### Earth focus for the future: C&S Electric celebrates Earth day

C&S Electric celebrated the 45th Earth Day on April 22, 2015, an event aimed at promoting awareness and cooperation with regard to preserving the mother earth and environment in a spirit of friendship and solidarity. To mark the day, a tree-plantation drive was carried out across all the plants. More than 100 plants were installed in all manufacturing locations and marketing offices

### No Water, No Life: C&S Electric observed World Water Day

To spread awareness regarding the importance of development and management of water resources, C&S celebrated World Water Day with children served by the NGO Aprajita Mahila Samiti on 17th March, 2015 at Chitrnan Park, New Delhi. 'Water is Life' presentation and motivational video clips were shown to children to increase awareness among them. They were also taught various ways to conserve water.

### C&S Electric helps Nepal Earthquake victims

After a devastating earthquake wrought havoc in Nepal, countless people were left homeless, thousands lost their lives and survivors faced the challenge to satisfy the basic need of food, clothes, shelter and medical aids. The C&S team kept the commitment to stand with the disaster-affected region as always and extended its support by donating relief material. The employees also contributed to the noble cause and donated their one-day salaries.



### Aaina (Josh) - A Community Theater Festival

C&S has been working with JOSH in the resettlement colonies of Trilokpuri and Kalyanpuri in East Delhi, to spread awareness of the right to education and enhancing employability skills amongst the youth. It is also working towards spreading awareness of various social issues like gender equality, girl education and girl employment.

To voice issues of social importance among communities in ways that not only entertains them but also make them aware, JOSH in association with C&S, hosted 'Aaina 2015' a community theater festival in Trilokpuri and Kalyanpuri, one of the largest resettlement colonies and slums of East Delhi. This theater festival has been one of the trendsetters by bringing together theater groups from different colleges, professional groups as well as community-based theater groups. Through this festival, JOSH raised several key concerns like female feticide, domestic violence, corruption and communal riots.



### C&S Electric celebrates National Safety Week

As a part of its continuing effort to promote and inculcate safety consciousness among children, C&S Electric celebrated National Safety Week with children at SOS Village, Faridabad. During the celebrations, various safety exercises were conducted with the children and they were taught about road safety and traffic rules.

The Safety Week was also observed in all the manufacturing facilities and offices of C&S Electric, with all employees participating in the event. To mark the event, safety badges were distributed and safety pledges were administered.



### C&S Electric partners with WWF

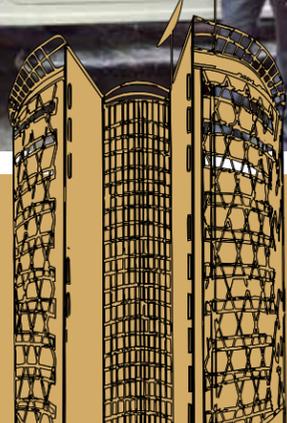
C&S Electric has partnered with WWF for project tiger conservation in Pilibhit, Uttar Pradesh. Under this project, the company has donated conflict mitigation vehicle to the Pilibhit Social Forestry Division.



### Sharing is caring: C&S conducts Vastra Samman (Dignifying Clothing)

C&S is always ready to lend a helping hand for those in need. Vastra Samman is one among many such bi-annual features for helping the underprivileged. Clothes were contributed by the employees from all units and were personally handed over to NGO Goonj, by visiting their processing centre at Sarita Vihar, New Delhi. The collected clothes were processed with necessary value addition and given to the needy in exchange for community service.

## Do you Know?



India's **TALLEST BUILDINGS** including Imperial Tower in Mumbai & Civic Center in Delhi are powered with C&S solutions

CELEBRATING  
**50**  
—YEARS—

We touch your electricity everyday!

# C&S 2

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C&S electric 50 YEARS  
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## Awards

### Hindustan Aeronautics Limited awards Excellent performance certificate to C&S Solar Division

C&S is awarded with an excellent performance testimonial by Hindustan Aeronautics Limited (HAL) for commissioning roof top Solar PV Power Plant at HAL, Lucknow. The 50KWp roof top Solar PV Power Plant has been commissioned ahead of time line, giving excellent performance.



### C&S Electric Wins Best performance award from BHEL

C&S Electric has received the Best Vendor Performance Award from BHEL-EPD, Bangalore for the year 2014-15. The award is a hallmark of quality products produced by C&S. It was presented during the BHEL Annual Vendor Meet Program held at Bangalore.

### A fourth in a series: C&S Electric wins best product quality award

Ashok Leyland awarded C&S Electric with 'Best Product Quality Award' for the year 2014. C&S has been winning this award for four years consecutively. The winners are chosen based on product quality and its performance. The prestigious award was handed over at Ashok Leyland's OEA meet in Goa.



## C&S - 50 सुनहरे सालों का सफर

विविध उत्पादनों से निर्मित C&S !  
उत्तम कसौटी में निखरा C&S !!

सफलताओं के 50 साल गुजारता C&S !  
संघर्षताओं के मध्य, विश्व में प्रकाश बिखेरता C&S !!

गुणवत्ताओं के उच्च शिखर पर पहुंचता C&S !  
गंगा की अविरल धाराओं के मध्य सफलताओं के कदम चूमता C&S !!

विश्व पटल पर 'मेक इन इंडिया' का प्रोडक्ट बिखेरता C&S !  
ग्राहकों को उत्तम कोटी और प्रतिबद्धता से लुभाता C&S !!

आओ हम सब मिलकर करें मेहनत, C&S को करें उच्च स्तर पर सुशोभित !  
बुद्धि, विवेक और पराक्रम की पराकाष्ठाओं को लेकर करें इसे सिंचित !!

आओ आज लें हम संकल्प 100 वर्ष की ओर हो अग्रसर !  
उच्चकोटि के उत्पादनों को बनायें बढ़कर !!

गांधी प्रसाद  
सीनियर ऑफिसर डिस्पैच  
पीएमडी डिवीजन



Do you Know?

The World's largest supplier of WIND ENERGY turbines uses C&S Solutions

CELEBRATING  
50  
—YEARS—

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## CSBC 2015: Badminton Ninja



The 2nd edition of the CSBC Tournament, an inter-divisional badminton tournament, ended on 13th September. The tournament was held from 9th August to 13th September at Noida. The tournament witnessed shuttlers from C&S divisions vying for honour in four segments - Singles, Doubles, Super Doubles in Men category and Singles in Women category. The hard-fought tournament witnessed drop and drive shots with powerful smashes from champions.

Mr. Balwant Singh bagged the Men's Singles title defeating Mr. Rahul Maurya of Busduct Division 21-7, 21-3. The Doubles honours went to Mr. Sukhpal Saini who partnered Mr. Ashish Saini to beat Mr. Ashutosh Gautam and Mr. Gyan Prakash Ekka 21-10, 21-8. In the Super Double segment, Mr. Devashish Kumar partnered with Mr. Kapil Grover to beat Mr. S K Garg and Mr. Surender Hasija 21-12, 18-21, 21-17. Ms. Versha Singh from N1 Plant defeated Ms. Jyoti Sharma in straight sets 21-18, 21-19 to win Women's Single title. In addition to employee's participation, the Kids Championship was also conducted as a fun activity, where children from C&S family showed their skills. The award ceremony was held at Noida where the champions were awarded with trophies and certificates.

## Fourth in a Row: BB Leopards wins 6th edition of CSPL 2015



BB Leopards defeated Haridwar Jaguars by 33 runs to win the CSPL 2015 edition. BB Leopards won the tournament 4th time in a row, prior to this; they have won 2012, 2013 & 2014 editions.

In Final, Haridwar Jaguars won the toss and invited BB Leopards to bat. BB Leopards scored 133 runs in stipulated 20 overs quota. While chasing, Haridwar Jaguars were bowled out in 19th over with a score of 100 runs and hence making BB Leopard the winner of CSPL 2015.

Earlier in Semi Finals, Haridwar Jaguar defeated Protection Pumas and BB Leopards defeated TC Lions to enter the final.

The 6th edition of CSPL 2015 tournament started on the 27th of September 2015, at Greater Noida Stadium. The tournament had 8 teams playing for the coveted trophy. The tournament witnessed many hard fought matches and nails biting finishes & entertained the spectators.

### Do you Know?



13 out of 15  
**COMMONWEALTH  
 GAMES** stadiums were  
 powered by C&S

CELEBRATING  
**50**  
 YEARS

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## C&S Electric in media

### C&S Wiring Accessories Arrive on TV

After a successful advertising campaign for its MCB product range, C&S Electric launched a new series of wiring accessories TV commercials in 2015. The commercials, launched with an aim to increase awareness of wiring accessories products were showcased on all leading news channels including Aaj Tak, NDTV, Zee News, India TV and many others. In addition, C&S also sponsored primetime programs on these channels, including the financial budget of the year 2015-16 & 2016-17.

Under this campaign, C&S advertised its Divino Modular Switches and Combi Weather-Proof enclosures. Divino commercial highlighted the product features and its design aesthetics & elegance. The Combi commercial focused on the functional advantage of the product, highlighting Combi's usage in bathrooms, kitchens and laboratories, where we operate electrical switches with wet hands. The Combi commercial was also aired in the Tamil Nadu region in local language on major entertainment and news channels.

In addition, the MCB TV campaign was renewed and a new commercial was released in 2015. The new commercial along with functional benefits of product, focused on export strength of C&S Electric.

This consistent effort will give a major boost to the brand and will help the company in reaffirming its position as the most preferred and respected brand. The commercials can also be viewed at C&S Electric's official YouTube channel.



#### Mr Rishi Nath Khanna, MD, C&S Electric at Hannover Messe, Germany

Mr. Rishi Nath Khanna, Managing Director, C&S Electric was a part of top 10 CEOs delegations led by Hon'ble Prime Minister Mr. Narendra Modi to Hannover Messe 2015. For the year, India was the partner country for the world's largest industrial technology event. As a major player in the electrical fields, EEPC invited Mr. Khanna as one of the panellist for Seminar **Make in India: Opportunities in Electronics & Electricals segment – A New Sunrise** to share his thoughts on the potential for partnership and growth in the electrical segment. Mr. B.P. Rao, CMD-BHEL, Mr. Vishnu Agarwal, MD-Technical Associates Ltd. and Mr. Sunil Mathur, MD-Siemens India Ltd. were also part of the eminent panel. Mr. Khanna shared his thoughts on growth potential in Electrical Sector and Make in India initiatives of the Indian Government. He also highlighted the way C&S Electric has been taking forward its vision of making 'Made in India' a respected label world over.

## Do you Know?



The World's largest freight LOCOMOTIVE manufacturer uses C&S Solutions

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## Product in focus

### Smart Protection Solution against OVERLOAD & SHORT CIRCUIT.



#### Features:

- Compact & Space saving design
- Overload & Short Circuit Protection
- Rapid closing mechanism
- Easy to Operate & replace
- Brass terminals in both sides
- Supply Indication

#### Specifications:

- Reference : IS/IEC: 60898: Part 1: 2002
- Rated Current In : 6A, 10A, 16A, 20A, 25A & 32A
- Rated Voltage Un : 240V AC
- Rated Insulation Voltage : 660V AC
- Rated Frequency : 50/60 Hz
- No. of Poles : SPN/DP
- Rated Short Circuit Capacity : 4.5kA
- Degree of protection : IP 20
- Line / Load terminals : 6mm<sup>2</sup>

**SmartSol**  
Mini MCB DP



**C&S Electric Limited**

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