



Corporate Presentation

01.04.2014

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

Since
1966



We touch your electricity everyday!

MORE THAN FOUR DECADES OF DELIGHTING CUSTOMERS



Market Leader

Market leader in busbar business with dominating market share in Indian market. C&S is amongst the top 4 players in the switchgear business segment.

2% of C&S revenue is invested in R&D

Over 20,000 sqft. space dedicated to R&D, over 70 R&D engineers, state of the art testing & design facilities... & most of all a passion for innovation & excellence.

10X in the last 10 years

C&S Electric continues to grow strongly in all its businesses while enjoying a significant market share in the power & infrastructure segment.

₹4500+mn Net Worth

17 world class manufacturing facilities spread over Noida, Haridwar, Pantnagar, Bhiwani, Nantong - China and recently in Boom- Belgium with latest precision tools, machineries & highest quality control systems.

Employees 4000+

Over 400 engineers, dedicated sales team of 250 people & millions of satisfied customers.

400+ Stockists

A dedicated network of channel partners, ensuring access to the farthest corners of India, with an obsession for customer services. In addition C&S Products are available in over 3,000 retail counters nationally.

20 Sales Offices

Pan India sales team coverage catering to all market segments and dedicated logistics team and infrastructure.

Exports to over 85 Countries

Exports contributes to 30% of total turnover, C&S is amongst the largest exporter of electrical switchgear products from India.

We touch your electricity everyday!

OUR VISION, MISSION & VALUES



India is poised for significant growth and ready to carve its place in the global economic landscape - we at C&S are well positioned to be an integral part of this journey.

OUR VISION

- To be the most trusted, respected and preferred brand
- To be closest to its customer
- To manage power in India's biggest industries, in its highest buildings, in its most critical infrastructures and in millions of its homes
- To serve as a role model to others
- To make "MADE IN INDIA" a respected label world over

OUR MISSION

- To create a unique alchemy of outstanding products, operational excellence, path breaking customer services and compelling marketing
- To create the best place to work where employees are empowered, cared, developed and provided unlimited opportunities
- To continuously innovate, enhance our core technologies and develop new world class products
- To be India's largest exporter of industrial power distribution and control equipment
- To everyday experience, the sheer joy of delighting our internal and external customers
- To earn healthy return on investment

OUR VALUES

- Stretch for your customer
- Be frank, be honest
- Be obsessed with quality
- Work hard, smart and swift
- Succeed as a team and as an individual
- Discover your strength and those of others

We touch your electricity everyday!

KEY MILESTONES

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



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

2011 >>>

2008-11

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

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



Etacom

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



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

2005-08

Setup JV with Himinsa of Spain to manufacture Diesel Generating Sets



Enters medium voltage business through a JV with Elacec of Portugal



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)



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



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



Formed Joint Venture with Telemecanique for Control gear business in India



1982-86

Entry into Air Circuit Breaker business with technical knowhow from Terasaki Electric Japan

1966-82

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

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



Incorporation of The Controls & Switchgear Company

Attain market leadership in road signaling devices

Starts making inroads into large infrastructure projects



R.N. Khanna an IITian from Kharagpur, after 4 yrs. 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

C&S PRODUCT PORTFOLIO



SUBSIDIARIES/ JOINT VENTURES

Eta-com

Etacom ISD BV

C&S
electric

C&S (Nantong) Electric Ltd.

C&S
electric

C&S Electric MV Pvt. Ltd.

CSH

C&S Himoinsa Pvt. Ltd.

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MORE THAN FOUR DECADES OF OBSESSION WITH QUALITY



State-of-the-art manufacturing tools and systems to ensure highest level of quality and services

- 17 State-of-the-art manufacturing facilities
- Locations in Noida, Haridwar, Pant Nagar, Bhiwani, Nantong (China) and Boom (Belgium)
- Dedicated logistics warehouses - Noida, Ahmedabad, Bangalore and Bhubaneswar
- 2,000,000 sq.ft. covered area
- Latest precision tools, machinery & testing equipment
- Oracle ERP environment



C&S Haridwar - Campus



ACB Plant - Noida



TC Plant - Noida



LV Components Plant - Noida



Busduct Plant - Kasna

MORE THAN FOUR DECADES OF SERVING INDIA



Power Generation



Thermal, Nuclear, Hydro Power Plants



Windmill Power Plants



Solar Power Plants



Medium Voltage Isolated Phase Busducts



Low Voltage Switchboards



Electrical Panels & Relays



Power Busbars



Package Substations



Air Circuit Breakers



Charger Batteries



Capacitors

Distribution & Transmission



Switchyards



City Power Distribution



Package Substations

Industries



Manufacturing Plants



Service Industries



Petro Chemical

OEMs



Elevators



Locomotives



Telecom



MCBs



Lighting Solutions

Infrastructure



Buildings



Airports



Stadiums



Lighting (street lighting)

Commercial / Domestic



Homes



Offices



Agriculture



Module Switches



MCBs, MCCBs & DBs

Power Generation

- Market leader in power generation business for busbar systems and switchboards
- Conceived, developed and executed India's 2nd Grid connected Solar PV power plant
- Experience and capabilities for designing and execution of EBOP for power plants up to 600MW
- Approved by all major power consultants like DCPL, TCE, Desalin, etc.

Distribution & Transmission

- Market leader in city power distribution, largest supplier to BSES, TPDDL, MSEB, etc.
- Capable of turnkey execution for transmission substation up to 220KV
- Leading manufacturer of RMUs for power distribution
- Successfully completed and executed various distribution substation of 33KV level in both indoor and outdoor execution
- Leading supplier of relays and control panels for grid reliability and protection

Industries

- Significant presence in all heavy industries like Oil & Gas, Metal and Cement industries
- India's biggest refinery developed by Indian Oil Corporation at Paradip uses C&S products
- C&S busbars are changing the way electrical insulation is done in Indian Industries
- Some of our major customers include Vizag Steel, Salem Steel, Hindalco, Ultratech Cement, Ambuja Cement, Shell, Doosan, etc.
- Offshore platforms in India and across the world prefer C&S solutions

OEMs

- India's largest supplier of control gear components to OEM segment
- The world's leading windmills and locomotives manufacturers use C&S components
- Leading supplier to all major telecom shelter manufacturers
- The world's largest manufacturer of elevators relies on C&S products
- India's largest capacitor and power correction equipment manufacturer relies on only C&S contactors

Infrastructure

- 13 out of 15 commonwealth game stadiums were powered by C&S
- India's first F1 race is powered by C&S solutions
- India's tallest building is powered by C&S solutions
- India's major Airports and Railway Stations use C&S products
- India's biggest realtors like DLF, Ansal, Omaxe, Lodha, NCCL, ERA, etc. use C&S products

Commercial / Domestic

- All of India's major buildings and malls use C&S busbars
- Customised energy efficient lighting solutions
- Complete range of MCBs & DBs - A real 10KA solution
- Products designed for the highest level of safety and reliability
- Wiring accessories to cater to all applications like IT, hospitality, residential apartments, etc.
- India's fastest growing motor starter for agricultural applications

We touch your electricity everyday!

2% of C&S's turnover is invested in R&D

- 4 Government accredited R&D labs / centres
- More than 70 engineers are involved in creating world class products
- More than 25% of current revenue (2012-13) are derived from products developed over last 5 years
- Focused teams for new product development, product life cycle management and value engineering
- State-of-the-art design, engineering & proto - typing tools and resources
- UL approved lab for testing of control gear products



MAKING "MADE IN INDIA" A RESPECTED BRAND



**Export* business contributes to
30% of our total revenue**

- Global supplier of power busbar products
- India's biggest exporter of industrial power distribution & control equipment
- Exports to more than 85 countries
- India's most trusted & preferred supplier by many big international clients



The world's largest supplier of wind-energy turbines use C&S solutions



The world's largest freight locomotive manufacturer use C&S solutions



C&S products reaching all across the world



C&S participation in Hannover Messe

More than 4 decades of delighting customers in India and abroad

Exports to over 85 countries

*Sales made outside of India

We touch your electricity everyday!

WINTRIP REACHING DOORSTEPS OF EVERY HOUSEHOLD



Pan India Retail Network - 400+ Stockists, 145 Retail Distributors,
3000 Retail Outlets, 11000 Electricians



WiNtrip
MCB • RCCB • Isolator • DB



THE PROTECTOR
Life saver. Energy saver.

LOW VOLTAGE COMPONENTS BUSINESS



World class ACB Assembly line at Noida



- Amongst the top 3 players in the domestic market
- Domestic market leader in OEM and power segment
- Comprehensive product range with global approvals (UL, CSA, CB, CCC)
- India's largest exporter of LV switchgear – exports to over 85 countries
- Approved by major national consultants and Govt. customers
- Strong customer relations with global MNCs like GE, ABB, Eaton, etc.
- Loyal and expanding network of over 400 dealers
- C&S products are available across over 3000 retail counters nationally
- 20 National sales offices, over 150 number sales professionals
- 5 manufacturing plants spread across Noida, Haridwar and China
- 2 Government approved R&D labs / centres

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LOW VOLTAGE COMPONENTS BUSINESS



POWER DISTRIBUTION COMPONENTS

- Leadership in city distribution, amongs the largest supplier to BSES, Tata Power - DDL, MSEB, MCD, etc.
- Approved by all major power utilities and EPC contractors – NTPC, BHEL, GMR, JSW, Adani, LANCO, REL, BGR, etc.

Product Range

- Air Circuit Breakers : 400A ~ 6300A
- Moulded Case Circuit Breakers : 5A ~ 1600A
- Switch Disconnector Fuses : 32A ~ 800A
- Switch Disconnector : 25A ~ 3150A
- Compact Changeover & Bypass Switches : 63A ~ 3150A
- HRC Fuse Links & Bases : upto 800A
- Power Capacitor : Cylindrical 1 ~ 30KVAR at 440V
Rectangular 1 ~ 50KVAR at 440V/525V



WINmaster
ACB



ACE2
MCCB



C/O
Switch



Power
Capacitor



HRC
Fuse



LOW VOLTAGE COMPONENTS BUSINESS

POWER CONTROL COMPONENTS

- Leading Windmill manufacturers across the world use C&S products
- OEM leaderships – Largest supplier of controlgear components
- Dominance in city power management

Product Range

- robusTa Power Contactors : 9A ~ 800A
- Mini Contactors : 6A ~ 16A
- Capacitor Duty Contactors : 2.5KVAR ~ 60KVAR
- Motor Protection Circuit Breakers : 0.1A ~ 100A
- Control & Signaling Devices
- Industrial Motor Starter up to 350HP

Anmol Motor Starter up to 25HP

- Anmol Submersible Pump Starter Unit up to 57A
- Industrial Plugs & Sockets : 3 Pin & 5 Pin, 16A~125A



robusTa
Contactor



MPCB



ANMOL
Motor Starter



Push Button



Industrial
Plug & Socket



Low voltage component
plant at Noida



Leading supplier to windmill
manufacturers across the world

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LOW VOLTAGE COMPONENTS BUSINESS



FINAL POWER DISTRIBUTION COMPONENTS

- India's tallest building at Mumbai use C&S MCB to switch ON its power
- India's major realtors like Ansal, Lodha, Adani use C&S products
- OEM supplier to major power backup companies like Sukam, Sudhir Genset, ACME, Jackson, etc.

Product Range

Miniature Circuit Breakers :

- 1P, 1P+N, 2P, 3P, 3P+N & 4P; 0.5A-125A
- Trip Type B, C & D
- DC MCB : 1P & 2P; 0.5A-63A
- Isolator : 1P, 2P, 3P & 4P; 25A-125A
- MCB changeover switch 2P & 4P; 25A & 40A

Residual Current Circuit Breakers :

- Complete range - 2P & 4P, 16A-100A in 30, 100 & 300mA

Distribution Boards :

- Wide Range inclusive of SPN/TPN, Single & Double door in all variants i.e. Horizontal, Vertical, PPI, Phase Selector, VTPN with MCB or MCCB as incomer, 7-Segment, Flexy (Tier), Acrylic, TV/Telephone, Plug & Socket, Cable End Box distribution boards
- Metal & Plastic enclosures



W/Ntrip
MCB



W/Ntrip
Isolator



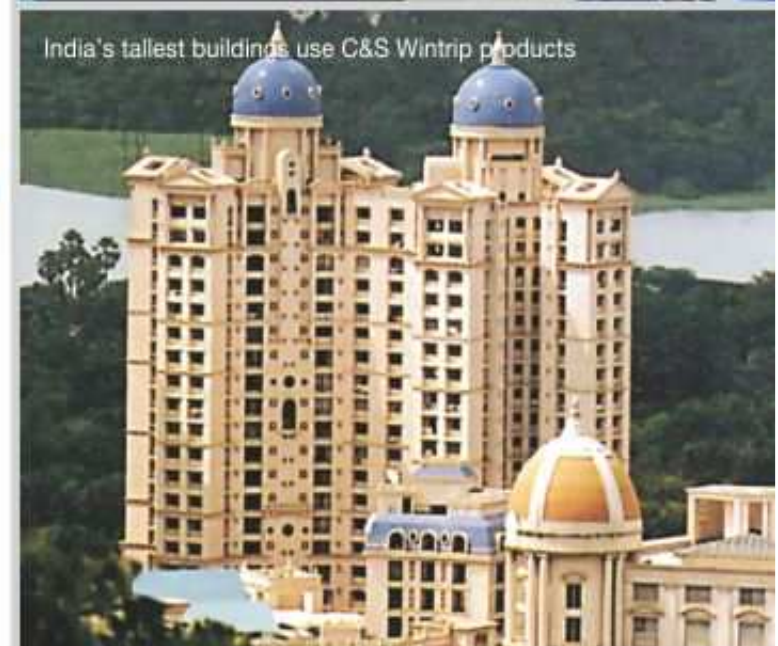
W/Ntrip
RCCB



W/Ntrip
Distribution Board



World class MCB plant at Haridwar



India's tallest buildings use C&S Wintrip products

LOW VOLTAGE COMPONENTS BUSINESS - CHINA



- World class state-of-the-art manufacturing plant at Nantong - China
- State-of-the-art machinery & quality control systems
- Futuristic plant with a spread of 4474 sqm. area
- Complete engineering, designing & testing facilities
- Contactor manufacturing with CCC certification to serve China market
- Component manufacturing facility to feed mother company in India
- Supply base to all major international customers



State-of-the-art machinery



C&S (Nantong) China plant



World class assembly line

We touch your electricity everyday!



Lighting Installation at RML Hospital - Delhi

- Widest range of application based lighting solutions using LED and Induction lamp sources
- Green tech and conventional lamp sources based indoor, outdoor and industrial luminaires
- Payback/cost saving based solutions using LEDs and Induction lamps with no compromise on application
- Complete range of wiring devices and accessories for domestic, hotel, commercial and outdoor applications – a blend of design, aesthetics, safety and functionality
- Extensive reference list in a short period of time – from India's most expensive homes to India's most acclaimed infrastructure projects to India's most cutting edge solutions
- Pan India service and logistics capabilities through C&S branch offices and network of channel partners

LOW VOLTAGE COMPONENTS BUSINESS



LIGHTING AND WIRING ACCESSORIES

Indoor & Outdoor lighting solution

- India's first grand prix F1 race was illuminated by C&S
- India's major railway stations including New Delhi, Mumbai, Chennai use C&S lighting products
- India's biggest realtor like Ansals, Adani, DLF, NCCL, ERA, TCG, Magarpatta, EWDPL prefer C&S lighting products
- India's major airports like CST Mumbai, Pune, Jalgaon Airport are illuminated by C&S products
- Majority of telecom shelters use C&S lighting products
- India's luxurious hotels like Leela, Pullman, Sarovar, Radisson, Ramada use C&S lighting products
- One of the major LED Street lighting installations uses C&S LED street light

Modular Switches

- India's biggest builders like NCCL, Ansals, ERA, TCG prefer C&S modular switches



Modular Wiring
Accessories



Indoor Luminaires



Outdoor Luminaires



Modern office lighting



Illuminating modern architecture at MEA building-Delhi



Street beautification at Indore

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LOW VOLTAGE SWITCHBOARD BUSINESS



World class Switchboard plant at Noida



- 48 years of successful track record – presence in over 80% of all major power plants in India
- Market leader in Indian power segment
- Growing presence in Oil & Gas, Cement and Steel segment
- Long standing relationships with all major power utilities and EPC contractors like NTPC, BHEL, TATA, Adani, JSW, LANCO, BGR, GMR, REL, Alstom, ABB, etc.
- 2 purpose built manufacturing plants spread across Noida and Haridwar
- India's first bolted type design - fully type tested up to 65KA for fixed and draw out type panels
- Engineered solutions for extensive applications of PCC and MCC

LOW VOLTAGE SWITCHBOARD BUSINESS



- Most of NTPC Power plants are powered by C&S products
- Largest refinery of India at Paradip uses C&S panels
- C&S enjoy dominance in city power distribution
- Repeated business from major power and infrastructure customers like Reliance, Adani, TATA, JSW, NTPC, etc.
- Approved with all major power consultants like EIL, RITES, IRCON, MES, PROCON, etc.
- Growing presence in Oil & Gas sector etc.
- Growing presence in international market, supplies to Bangladesh and Russia.



State-of-the-art manufacturing facility at Noida



Majority of NTPC plants are equipped with C&S products



Paint shop at Haridwar with latest technology

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MEDIUM VOLTAGE BUSBAR BUSINESS - ISOBAR



India's Largest MV Busbar Plant at Kasna

- Domestic market leader with more than 50% market share
- Widest range of products – IPB, SPB, NSPB, Generator auxiliary compartments, PSS
- India's first installed 800MW busbar solution – now ready with 1000MW forced air-cooled solution
- More than 5000km of busbar manufactured so far and the most extensively type tested solution in the world
- Majority of NTPC power plants carry power through C&S busbars
- 2 manufacturing plants in Noida and Haridwar
- The Haridwar plant is India's largest plant for MV busbars - own heat run test facilities upto 30,000A rating
- Long standing relationships with all major power utilities and EPC contractors like NTPC, BHEL, TATA, Adani, JSW, LANCO, BGR, GMR, REL, Alstom, ABB, etc.
- Established export credentials with installations from South East Asia, Europe, Africa to South America

isobar

- Isolated Phase Busducts (11KV to 36KV upto 30000A) (Air cooled)
- Segregated Phase Busducts (3.3KV to 33KV upto 5000A)
- Non-Segregated Phase Busducts (415V to 1.1KV upto 7500A)
- DC Busbar Systems
- Generator Auxiliary Compartments
- PTSP Cubicles
- Neutral Grounding Cubicles
- Line & Neutral Side Terminal Boxes
- Pressurization System for IPB's
- Hot Air Bowling Equipment



Isolated Phase Busduct



Generator Auxiliary Compartment (GAC)



Segregated Phase Busduct



Isolated Phase Busduct installation



India's largest MV busbar plant at Haridwar

LOW VOLTAGE BUSBAR BUSINESS - METABAR



Outdoor LV Busbar Installation



- Domestic market leader with more than 35% market share
- Only domestic player with complete engineering, design and manufacturing capabilities in India
- Engineering and service capabilities through C&S network of 20 branch offices
- Preferred choice of all major government and private consultants, contractors and customers
- State-of-the-art manufacturing facilities in Haridwar, Govt. approved R&D centre in Noida
- Recognised export credentials - installations across all Gulf countries, Russia, Western Europe and South-East Asia
- Widest range of metal clad bustrunking including air insulated, sandwich type, rising mains and lighting trunking

LOW VOLTAGE BUSBAR BUSINESS - METABAR



metabar

- Air Insulated Busbar Trunking for industries, power plants, airports & all infrastructure (125~2000Amps.)
- Sandwich Busbar Trunking for industries, power plants, airports & all infrastructure (Low - Impedance) (400~6600Amps.)
- Lighting Trunking for industries, power plants, airports & all infrastructure (25-63Amps.)



Air Insulated Busbar Trunking



Sandwich Busbar Trunking



Lighting Trunking

India's largest LV busbar plant
at Haridwar



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Eta-com



C&S Etacom plant at Boom-Belgium

- Etacom ISD BV group founded in 1979
- Betobar insulated cast resin busway system a modern, all purpose mean of efficient & safe transmission of electrical energy
- Widest range of Betobar cast resin insulated busway system
- Complies with all the requirement for current distribution at low & medium voltage
- IP68 protection range available for current ratings up to 6300A & Voltage ratings up to 24KV



- World's leader in cast resin busbar system with installations in more than 50 countries
- India's first international grand prix F1 race powered with Betobar
- Majority of power house & substations are powered by Betobar
- Leader in oil & refinery segment for supplying cast resin insulated busbar system
- Offshore platform in India & across the world prefers Betobar

Features

- Low power loss
- High short-circuit rating
- Overload capacity 20% 2 Hours
- Protection class IP68
- Fire resistant to IEC 60331
- ATEX certificate available up to 10KV
- Tailor - made terminal elements
- Pluggable top-off available up to 630A
- Maintenance free
- Long life safety guarantee



Low Voltage



Medium Voltage



Power plants across the world prefer betobar



Offshore platform prefers C&S products

PACKAGE SUBSTATION



- Leading supplier to Reliance Energy, LANCO, Noida Development Authority, Airport Authority of India, State utilities, Building & Infrastructure segments
- Fully equipped Package Substation (PSS) - outdoor duty enclosures, medium voltage switchgear, distribution transformer (dry / oil cooled type) low voltage panel & AFPCR panel
- CPRI, ERDA, SQTC certified completely factory assembled weatherproof solution
- Self contained Package Substation with individual compartmental access & best in class enclosure rated K5 - K10
- Rating: 12KV to 24KV (33KV on request)
- Degree of protection: medium voltage & low voltage compartments -IP54
Transformer compartment -IP23



Package Substation (PSS)
range upto 24KV



Leading supplier to State Utilities
companies & Infrastructure segment



Outdoor PSS installation

- Extensive range of protection and control solution from 415V to 400KV voltage levels including IEC 61850 process and station based architecture
- In house expertise in design, engineering, testing and commissioning of protection and control solution including busbar engineering using numerical relays
- Automation solution for switchyards upto 400KV and Thermal, Hydro, Wind, Solar and Captive generation plants
- Widest range of digital relay for power protection, control and monitoring of power plants, substation, generator and industry
- ISO:9000 certified state-of-the-art manufacturing plant with latest machinery and testing facility
- State-of-the-art Govt. recognised R&D labs / centres
- Technical collaboration with reputed relay manufacturers to integrate their products for HV application in transmission network



Electronics Division plant at Noida

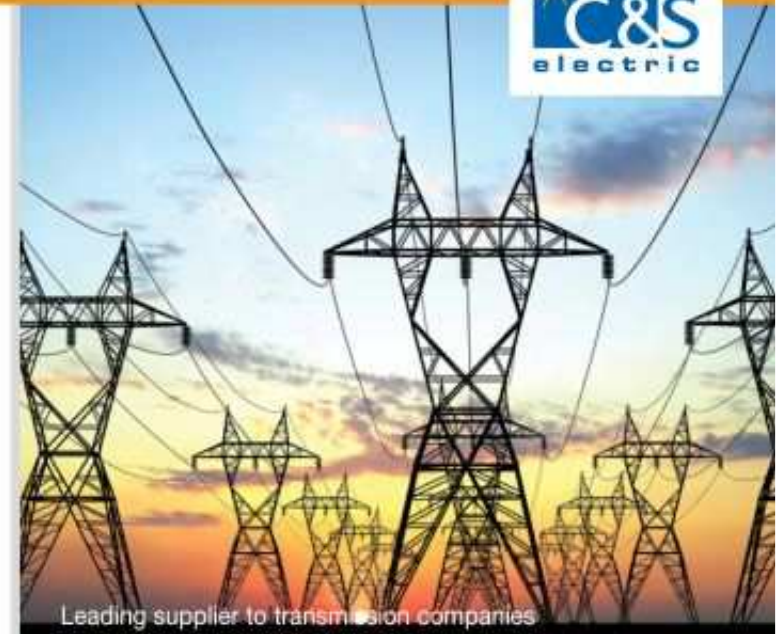
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Protection, Control & Monitoring Relays

- Feeder, Motor, Transformer Protection Relays
- RMU Protection Relays
- Generator Control: Synchronising, Load Sharing & AMF Relays
- Generator Protection: Current, Voltage, Frequency, Reverse Power, Rotor Earth Fault, Differential, De-Coupling, Negative Sequencing & Over Fluxing Relays

Low Voltage Electronics Relays

- Electronic Motor Protection Relays
- Single / Multi Function Meters
- Energy Analyzers
- Timers



MEDIUM VOLTAGE SWITCHGEAR BUSINESS



MV Switchgear plant at Greater Noida

- MV switchgear division offers wide range of switchgear for Primary and Secondary distribution.
- Growing presence in power distribution segment
- State-of-the-art manufacturing plant at Greater Noida with latest machiney & testing facilities
- Supplier to power companies like BSES, TATA Power, LANCO, MSEDCL, etc.

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MEDIUM VOLTAGE SWITCHGEAR BUSINESS



- Leadership in secondary distribution switchgear with both indoor & outdoor RMUs
- Approved with major power distribution utilities BSES, TATA Power, UGVCL, MSEDCL, etc.
- Full solution for primary distribution switchgear - 11kV, 22kV & 33kV VCB panels
- Approved with power generations utilities LANCO, Adani, etc.
- Leading supplier to EPC contractors



12kV Air Insulated Switchgear with Draw-Out Vacuum Circuit Breaker



36kV Air Insulated Switchgear with Draw-Out Vacuum Circuit Breaker



SF6 Insulated Indoor Ring Main Unit



Vacuum Circuit Breaker



Vacuum Circuit Breaker



SF6 Insulated Outdoor Ring Main Unit



Outdoor RMU installation at Noida



Panel under inspection at factory



Bharat Petroleum Bina Dispatch Terminal

- Thermal Power Projects
- Infrastructure Projects
- Hydro Electric Projects

- Oil & Gas Projects
- Mines & Metal Projects
- Solar Power Projects

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ELECTRICAL EPC BUSINESS



- More than 70 engineers
- Pan India presence
- Experience of successful completion & execution of over 100 projects
- More than 400 man years of experience
- End to end solution from designing & engineering to project execution & maintenance
- In house design capability for sub-station & E-BOP projects
- Financial stability & balance sheet strength
- Approved with all major consultants
- ISO 14001 & OHSAS 18001 certifications for implementing & complying Safety, Health and Environment systems

Major Clients

- NTPC Ltd., Mauda Thermal Power Project
- Modernisation of Airfields (MAFI)
- Paradip Refinery
- All India Institute of Medical Sciences
- Central Public Works Department - South Block
- Central Public Works Department - North Block
- Hindustan Petroleum Corporation Ltd. - Pune - Solapur Pipeline Project
- Bharat Petroleum Corporation Ltd. - Bina
- Sir Ganga Ram Hospital
- Siri Fort Sports Stadium
- New Delhi Municipal Corporation - Tal Katora Indoor Stadium
- RITES Ltd. - DGMAP Bareilly
- RITES Ltd. - MAP-Mathura
- Centre for Development of Telematics
- Central Drug Research Institute - Lucknow
- Neyveli Lignite Corporation Ltd.

South Block-Parliament House-Delhi



NTPC Mauda Plant



SOLAR EPC BUSINESS



Complete EPC Solution for Grid Tied, Hybrid & Off Grid Solar PV Power Plants

- India's 2nd grid connected Solar PV Power plant under the MNRE RPSSGP program
- Haryana's 1st Solar PV Power plant, developed, engineered & executed by C&S Electric
- Annual power generation capacity from 1.5mn to 1.6mn KWH
- 1400 to 1500 tonnes of green house gas emission saving
- Plant conceived & completed much ahead of all deadlines creating a benchmark for quality, innovative engineering & energy efficiency
- Commissioning of Rooftop Solar PV Power plant at various important buildings of Chandigarh

DELIVERING ON
THE PROMISE
OF SOLAR ENERGY.

- UTILITY SCALE
- GROUND MOUNTED
- ROOF TOPS

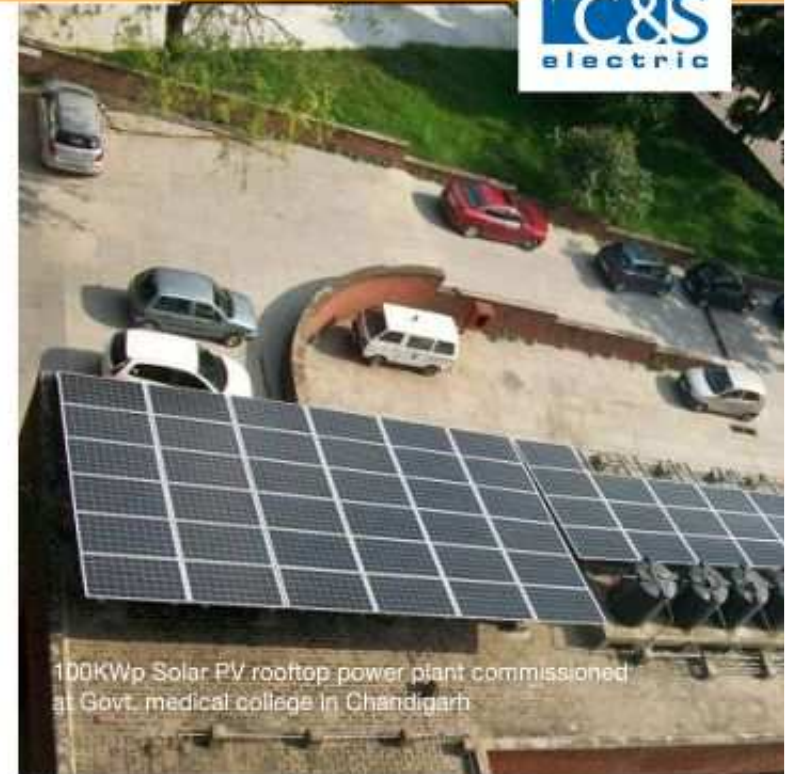


We touch your electricity everyday!

- C&S Solar PV Power Division is electrifying Chandigarh's important buildings with Solar Power under CREST Initiatives aggregating to 730KWp:
 - 100KWp Solar PV Power roof top system installation at Govt. medical college and hospital
 - 75KWp Solar PV Power roof top system at DC Office at Chandigarh
 - 70KWp roof top Solar PV Power plant at multi speciality Hospital
 - 50KWp roof top Solar PV Power plant at Government college of commerce and administration
 - 25KWp roof top Solar PV Power plant at Police Headquarter
- 40KWp capacity solar PV Power roof top system installation & synchronization at Indian Institute of science and Education Research (IIESR) Mohali

Capabilities

- Solar power feasibility analysis and site evaluation suitability
- Power conditioning and power evacuation performance tracking
- Cable earthing, lightning, protection and safeties
- Solar system design engineering and mounting structure fabrication
- Civil foundation and related works
- Power conditioning and power evacuation performance tracking
- Project management and sourcing tie-up
- System integration, installation and commissioning
- Operation and maintenance support



100KWp Solar PV rooftop power plant commissioned at Govt. medical college in Chandigarh



75KWp Solar PV rooftop power plant commissioned at DC Office in Chandigarh

JOINT VENTURE- C&S HIMOINSA PVT. LTD.



Futuristic plant at Rudrapur

- C&S Himoinsa is a 50:50 joint venture between C&S Electric and Himoinsa of Spain, a world leader in diesel generators
- C&S Electric is the pioneer in silent DG Sets in India
- Range from 7.5KVA to 2000KVA
- DG sets manufactured as per international design and meeting CPCB norms laid down by Govt. of India
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