



Smart solutions.
Strong relationships.



Consolidated Financial Highlights 2011-12

NET SALES AND SERVICES

Rs. 11,249 crore

EARNINGS BEFORE INTEREST,
DEPRECIATION, TAXES AND AMORTISATION

Rs. 856 crore

PROFIT BEFORE TAXES

Rs. 550 crore

PROFIT AFTER TAXES, MINORITY INTEREST &
SHARE OF ASSOCIATES (NET)

Rs. 374 crore

RETURN ON CAPITAL EMPLOYED

12.9%

RETURN ON NET WORTH

10.5%

CONSOLIDATED NET SALES
OF THE BUSINESS UNITS

Rs. 7,315 crore

Power Systems

Rs. 2,134 crore

Consumer Products

Rs. 1,820 crore

Industrial Systems

ONE CG. From generator to bulb, all

UNITED STATES OF AMERICA
Missouri, New Jersey, Albany, Arizona, Connecticut, Florida, Idaho, Texas, Maryland, Pennsylvania, Rhode Island

CANADA
Winnipeg

BRAZIL
Rio Grande do Sul

IRELAND
Cavan, Dublin

UNITED KINGDOM
Jarrow, Stockport

FRANCE
St. Leonard

Generators

Turnkey Projects

Transformers

Switchgear

across the globe.



ONE CG. Smart solutions from design

SMART SOLUTIONS AND SMART SERVICES

CG's Systems & Solutions business has uniquely packaged the competencies assimilated through separate acquisitions over the years to provide comprehensive turnkey solutions to its customers. CG's Service Division offers a complete suite of asset management and condition-monitoring solutions. Combined with leading-edge products, CG offers one-stop-shop solutions to utilities and industries for their power solutions needs, building trusted long-term relationships.

Power County wind farm, Idaho

CG Power Solutions USA executed CG's first end-to-end total solutions project comprising project development, engineering, procurement and construction (EPC) and site management of the Power County wind farm in Idaho, USA, with a total generating capacity of 45 MW. The project cost was USD 98 million and was totally funded by CG. Cutting-edge project management ensured timely delivery as per committed deadlines. At full capacity it will provide clean power to 45,000 homes in California and Washington States.

CG's service operations

Seen in the inset is the service of a shell transformer for Rio Tinto in Charleroi, Belgium. Eight layers of the windings were repaired in a record time of 14 weeks to the great satisfaction of the client.



AREA OF LEASED LAND
(PRIVATE & STATE)

7,600 acres

NUMBER OF
WINDMILLS

18



to maintenance.

POWER GENERATING
CAPACITY

45 MW

HOMES POWERED
WITH GREEN ENERGY

45,000

CUTTING EDGE
PROJECT
MANAGEMENT
THAT ENSURES
TIMELY DELIVERY

E N D T O E N D S O L U T I O N S

ONE CG. Smart solutions to connect

HOW WE'RE BUILDING A SUSTAINABLE BUSINESS

The focus on energy generation from green sources has provided CG with another arena for the supply of our specialist design, installation and commissioning services. Our range of capabilities within the T&D networks allow us to provide a complete solution for the construction and supply of offshore sub-stations required for offshore wind parks and connections to the onshore grid, thus playing a vital role in the fight against climate change.

Belwind, Belgium

CG commissioned its first offshore sub-station in 2010 connecting a 165 MW wind-farm developed by Belwind, located 50 km offshore in the coastal waters of Belgium. With the success of this sub-station integration, CG has carved itself a niche within this market. CG's Systems divisions of Belgium & UK have come together to secure prestigious orders for a number of upcoming offshore wind-farms in Europe, including Humber Gateway (UK), Amrunbank and Butendiek (Germany).

Solar Farm, Niland USA

During the year, CG also executed engineering and commissioned supervision of its maiden 27.8 MW Solar power plant in Southern California, USA. CG has also developed and launched a new four winding transformer for the solar market.



ANNUAL SAVING IN
CARBON DIOXIDE EMISSIONS

270,000 tonnes

DISTANCE
FROM SHORE

50 km



with the green grid, on land or sea.

SEA DEPTH
AT SUB-STATION

15–37 mts

TRANSFORMER AT
MAIN SUB-STATION

151.5 tonnes

COMPLETE
SOLUTIONS TO
CONNECT OFFSHORE
SUB-STATIONS TO
THE ONSHORE GRID



R E N E W A B L E E N E R G Y

ONE CG. Big is beautiful: How great

HIGH VOLTAGE. HIGH TECH.

CG has been in the forefront of technology development, with its enviable pool of talented engineers.

765 kV sub-station for UPPTCL, India

CG commissioned its first 765 kV sub-station (see inset image) for Uttar Pradesh Power Transmission Corporation (UPPTCL) in 2011-12. This is the highest operating voltage level presently used in India and facilitates power to be carried over longer distances at a low loss.

The 765 kV technology which was applied for the project, originally existed in the Hungarian plant of CG. It was successfully adapted to meet the requirement of the Indian markets. Engineering teams from Indian and Hungarian operations worked extensively to create efficient designs for this project.

1200 kV National Test Station for PGCIL, India

As a next step, CG has also partnered with Power Grid, India in developing its next generation of transmission voltages of 1200 kV UHVAC. The National Test Station at Bina is presently testing samples of grid hardware required for 1200 kV transmissions, from reputed manufacturers. CG has supplied three products to the Test Station – a Transformer, a CVT and a Surge Arrestor. All have been successfully test charged.



FIRST 1200 KV
LINE SPANS

380 kms



power can travel great distances.

TRANSMISSION
CORRIDORS UNDERWAY

9

LINE CARRYING
CAPACITY

6000 MW

CG HAS BEEN IN
THE FOREFRONT
OF TECHNOLOGY
DEVELOPMENT,
WITH ITS ENVIABLE
POOL OF TALENTED
ENGINEERS

T E C H N I C A L E X P E R T I S E