

# The specialist in Medium Voltage Switchgear



# SGC

SwitchGear Company

THE SPECIALIST IN MEDIUM VOLTAGE SWITCHGEAR

[www.switchgearcompany.eu](http://www.switchgearcompany.eu)

# SGC, your partner in medium voltage switchgear



SGC - SwitchGear Company provides reliable products for electrical distribution applications. More specific, SGC-SwitchGear Company is a **supplier of medium voltage switchgear (1000 - 36000 V)**.

We are a fast-growing Belgian company that invests considerable time and energy in **Research & Development** to serve customers even better. **User-friendliness, safety** and **care for the environment** are the main drive for developing SGC's switchgear.



SGC - SwitchGear Company is **driven by operator safety**. Our mission is to safeguard the personal safety of the operators of our products. We serve our distributors, electric utility companies, contractors and industrial companies around the world with innovative and durable medium voltage switchgear.

- Driven by operator safety
- Active supplier in all continents of the world



# Medium voltage?

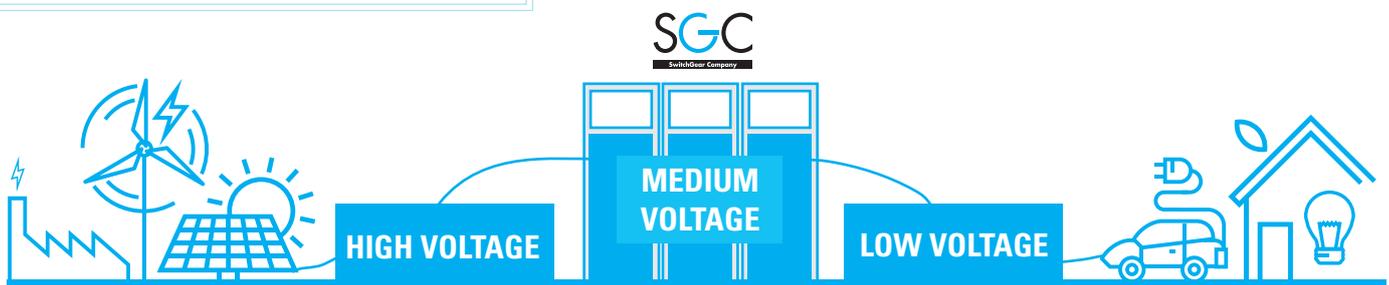
## What's that all about?

Power stations generate electrical power, with voltages up to 380.000 V, which is transported to transformer stations and dispersion stations.

These substations distribute medium voltage (1 kV up to 36 kV). Here too, a number of SGC nv SwitchGear Company's cubicles are used. A medium voltage grid starts from every substation and supplies a large area with medium voltage.

Wherever medium voltage enters residential areas, industrial production companies, market gardening, hotels, sport venues, and more, there is a medium voltage switchboard fulfilling four essential functions.

- 1. POWER SUPPLY** : the utilities grid is branched off to create a reliable grid which allows switching.
- 2. SECURITY** : the installation is secured with a load break switch with HRC fuses, or by a circuit breaker with a safety relay.
- 3. MEASUREMENT** : the energy consumption is measured on the medium-voltage, or low-voltage side.
- 4. TRANSFORMATION** : medium voltage is transformed into low-voltage < 1 kV.



**SGC OFFERS SOLUTIONS FOR ALL KINDS OF APPLICATIONS**

Contact us for any further information or questions

Call **+32(0)9/321.91.12** or mail to **sales@switchgearcompany.eu**



# SGC, stands for...

- **Safety** : as we are active in a technical sector, transferring high amounts of energy, safety is of the highest importance.
- **Built to last** : we produce reliable switchgear that requires minimal maintenance and is aimed to have an infinite life.
- **IEC certified products.**
- **Modern technology** : we invest constantly in high technology to produce our switchgear.
- **Ergonomic, eco-friendly production processes and green results** : we achieve results where our products don't affect the ecology.
- **Made-to-measure ✂ & Optionally customer labeled.**
- **User friendly products** : a clear and logic synoptic diagram together with simple operations are essential to be able to take the correct actions in emergency situations.



# DF2(+), Our top of the range, superstar cubicle.



The DF2 system is a **modular concept** based on the building blocks principle, which means that the manufacturing of the cubicles takes place in series. As such the modular concept **DF2 meets the highest technical standards in a rational and economical responsible manner.** The combination of cubicles is unlimited. **The most complex schemes of distribution and transformation substations can be constructed.**

As the switching happens in an SF<sub>6</sub> gas medium, the dimensions of our cubicles are very restricted. The semi-compact cubicles are especially interesting when the available space is a problem or is economically a heavy factor. The cubicles contain all functional interlockings so that they will operate properly in line with all applicable standards, in a workroom next to major users. It reduces the power losses to a strict minimum. The cubicles are equipped with a pressure relief so that the user is always protected against the negative consequences of an internal arc.



## Safety is our force. Built to last.

### SF<sub>6</sub> insulation

For over 30 years SF<sub>6</sub> gas has proven to be superior as an insulation and interruption medium in high (HV) and medium-voltage (MV) installations. It is extremely stable.

### 2 mm galvanized steel plates

DF2 cubicles consist of 2 mm galvanized steel plates. This particular plate size coupled with the design means cubicles are able to withstand internal arcs effortlessly, both in the cable compartment as well as in the busbar compartment. Possible internal arcs are also guaranteed to be restricted to the compartment where they originated.

### Prevent leakage currents

It is of great importance that leakage currents are avoided. Leakage current can provoke an internal arc. Therefore, it's important that the creepage distances between adjacent phases is enlarged without changing the physical distance between the phases and that the build-up of condensation is avoided.

# SGC offers solutions for all kinds of applications

## AIS Air insulated

- Air insulated
- Always extendible
- Minimal amount of SF<sub>6</sub> (LBS)
- Switchgear is compartmentalized
- Withdrawable circuit breaker with metallic shutters\*



### DF2(+) - Metal Enclosed

- Modular design
- Two position load break switch
- LSC 2A
- Ur : 12-24kV; Ir : 630-1250 A



### DF3(+) - Metal Enclosed

- Compact modular design
- Three position load break switch
- LSC 2A
- Ur : 12-24kV; Ir : 630 A

## GIS Gas insulated

- Gas insulated
- Compact monobloc
- Lateral extension optional



### DR6/DT-6(+) - Ring Main Unit

- DR6/DT6C(+): monobloc with cable feeder and/or switch fuse combination
- DR6/DT6E(+): extension with monobloc and/or individual units
- Three position load break switch
- LSC 2A
- Ur : 12-24kV; Ir : 630 A

## SIS Solid insulated

- No SF<sub>6</sub> gas (Dry air)
- Extendible blocs
- Switchgear is compartmentalized



### SI2 - Solid insulation

- Modular
- Two position load break switch
- IP 68
- LSC 2A
- Ur : 12-15kV; Ir : 630 A



## DW2\* - Metal-Clad

- Modular
- LSC 2B
- Ur : 12-17.5kV; Ir : 630-2000 A

INTERESTED IN OUR PRODUCTS,  
PRODUCTION PROCESS OR PLANT?

Please contact our Sales Team. Send an e-mail to [sales@switchgearcompany.eu](mailto:sales@switchgearcompany.eu) for a guided tour, information on our products or visit our website :

[www.switchgearcompany.eu](http://www.switchgearcompany.eu)



## AF6 - Ring Main Unit

- Compact monobloc with 3 position load break switch
- Short-circuit indicators on incomers
- LSC 2A
- Ur : 12/17,5 kV ; Ir : 400-630 A



## DI2 - Ring Main Unit

- Monobloc with cable feeder and/or switch fuse combination
- Extension with individual units
- Two position load break switch
- LSC 2A
- Ur : 36kV; Ir : 400-630 A



**Get impressed.**  
**Visit our**  
**showroom virtually.**



# DR6<sup>(+)</sup>, Compact and extensible Ring Main Unit

SGC - Switchgear Company nv has devoted significant human and financial resources in the development for the finalization of a new compact and/or extendable Ring Main Unit for voltages from 12, 17.5 and 24 kV.

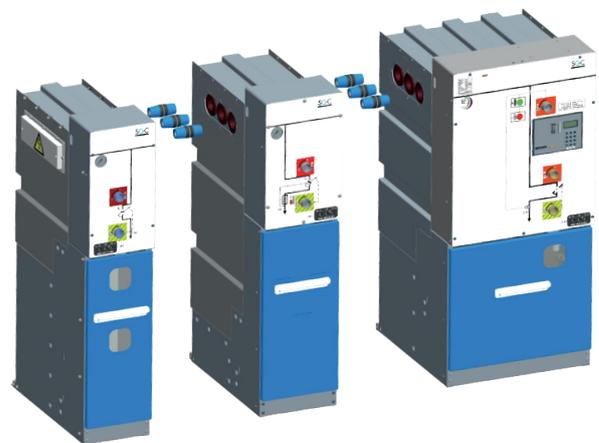
Meeting the most stringent quality and climatic requirements, the production process of the new DR-6 product range happens in a totally new and modern machine park of the latest generation. Laser technology and additional equipments were purchased with the sole objective: a constant and reliable quality. The DR6 range was developed and produced in accordance with the requirements of the ISO 9001 standards.

Security, reliability, respects for the environment characterizes the DR6 range, of which a large number of components are recyclable.



## DR6<sup>(+)</sup> application

DR6 medium voltage cubicles are used in a wide field of applications in the protection of transformers with a maximum capacity of 2500 kVA, regardless the configuration of the distribution network. Urban distribution, rural distribution, applications in renewable energy, SME's, shopping centres, hospitals, etc. are belonging to the capabilities of the DR6 range.



DR6<sup>(+)</sup>E : Extensible SF<sub>6</sub> insulated Ring Main Unit



**Our built-in Arc-Killer extinguish an arc in 48 milliseconds, 8 times faster than the blink of an eye**

## **Our patented Arc-Killers SV25 and SV50 with DF2+, DF3+ and DR6+ for optimal operator safety.**

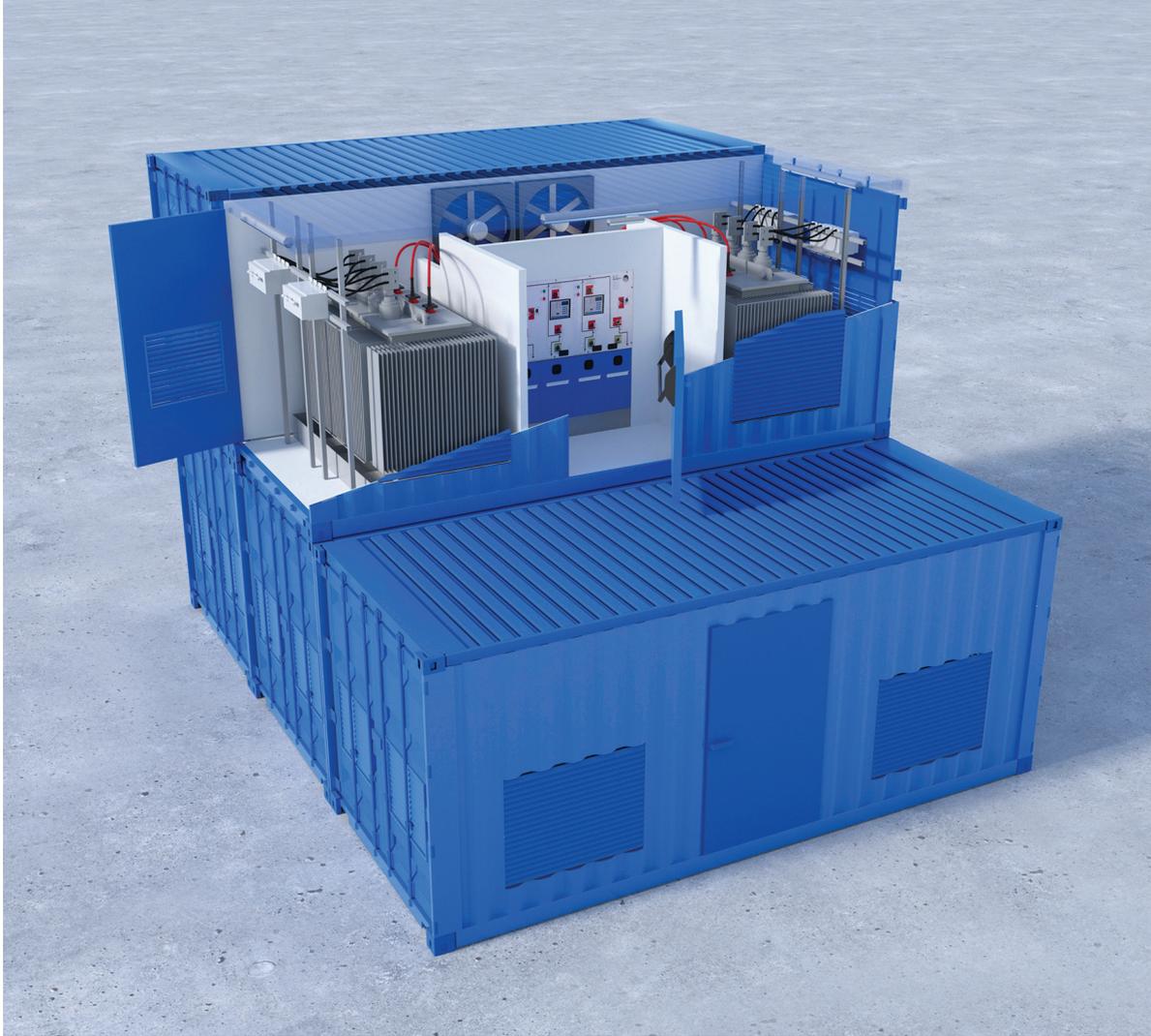
SGC - SwitchGear Company's patented **SV25** and **SV50** Arc-Killers takes safety to a new level. Not just the operator and the environment are shielded from harm, but the super-swift arc extinguishing system allows cubicles to be back in operation very quickly in case of an internal fault.

What's more, the arc-killer's improved security features place less strict demands on the installation room. As such, the Arc-Killer couples security and operational safety, with flexible room demands.



Arc Killer SV25





Containerized solution CX2

# Mobile switchgear solutions

One of our solutions is the CX2 range : containerized mobile substations that offer a plug and play solution for mobile power plants and switching substations.

The CX2 includes medium-voltage switchgear cubicles, (a) power transformer(s), and low-voltage distribution boards. Your entire CX2 container is fitted with all components, tested in our factory, and shipped worldwide.

## Typical Medium voltage setup

- Metering cubicle
- Protection cubicle
- Outgoing cubicle
- Incoming cubicle



# SGC, flexible solutions, indoor and outdoor

The CX2 ranges sits in between our range of concrete solutions (BX2) and galvanized steel solutions (GS2), to complete a range of medium-voltage solutions that offer clients a quick and easy medium.

Galvanised steel housing GS2



Concrete housing BX2P



## INTERESTED IN OUR PRODUCTS, PRODUCTION PROCESS OR PLANT ?

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“ *Our vision is to be a global player and to be the **premier switchgear company** in every market that we serve. Being premier does mean **being the best in terms of operator safety, quality, durability, innovation, technology, delivery and profitability, resulting in long term customer satisfaction.*** ”



**SGC - SwitchGear Company nv**

**Medium voltage switchgear, built to last.**

SGC - SwitchGear Company nv has been supplying reliable products for electrical distribution for more than 35 years. Innovative ideas and environmental care are the driving forces behind SGC - SwitchGear Company nv. The development of complete solutions consists of a minimum number of components, all of which have an exceptional life span. SGC - SwitchGear Company nv stands for exceptional quality and superior customer care. Your desired specifications and deadlines are our main concern.

An exclusive factory and highly automated production lines are key factors in our “state of the art” components and systems. It enables us to develop the DF2, DR6/DT6, DF3 , DI2, SI2, AF6 and DW2 to the highest quality standards. When it comes to delivery times, prices and products SGC - SwitchGear Company nv delivers.



**SGC - SwitchGear Company nv**

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