



# 40 YEARS PARTNERSHIP WITH NUCLEAR KEY PLAYERS

## CMR PRODUCTS HAS BEEN INSTALLED ON MORE THAN 100 POWERPLANTS AROUND THE WORLD

### ASIA

EPR Taichan / China  
Ling Ao / China  
Daya Bay / China  
Hongyanhe / China  
Ningde / China  
Fangchenggang / China  
Changjiang / China  
Qinshan / China  
Tianwan / China  
FCG Hualong One / China  
Lungmen / Taiwan  
Hanbit / South Korea  
Hanul / South Korea  
Wolsong / South Korea

### EUROPE

All French Nuclear Power plants  
EPR Flamanville 3 / Fance  
Tihange / Belgium  
PAKS / Hungary  
CNE Cernavoda / Roumania  
Hinkley Point / UK

### OTHER COUNTRIES

Leningrad / Russia  
Kudankulam/India  
Koeberg / South Africa

### OUR MAIN CUSTOMERS ARE :

- ✓ Nuclear OEM
- ✓ Equipment integrators
- ✓ Diesel generator package providers
- ✓ Energy utilities
- ✓ Nuclear power plant operators or owners

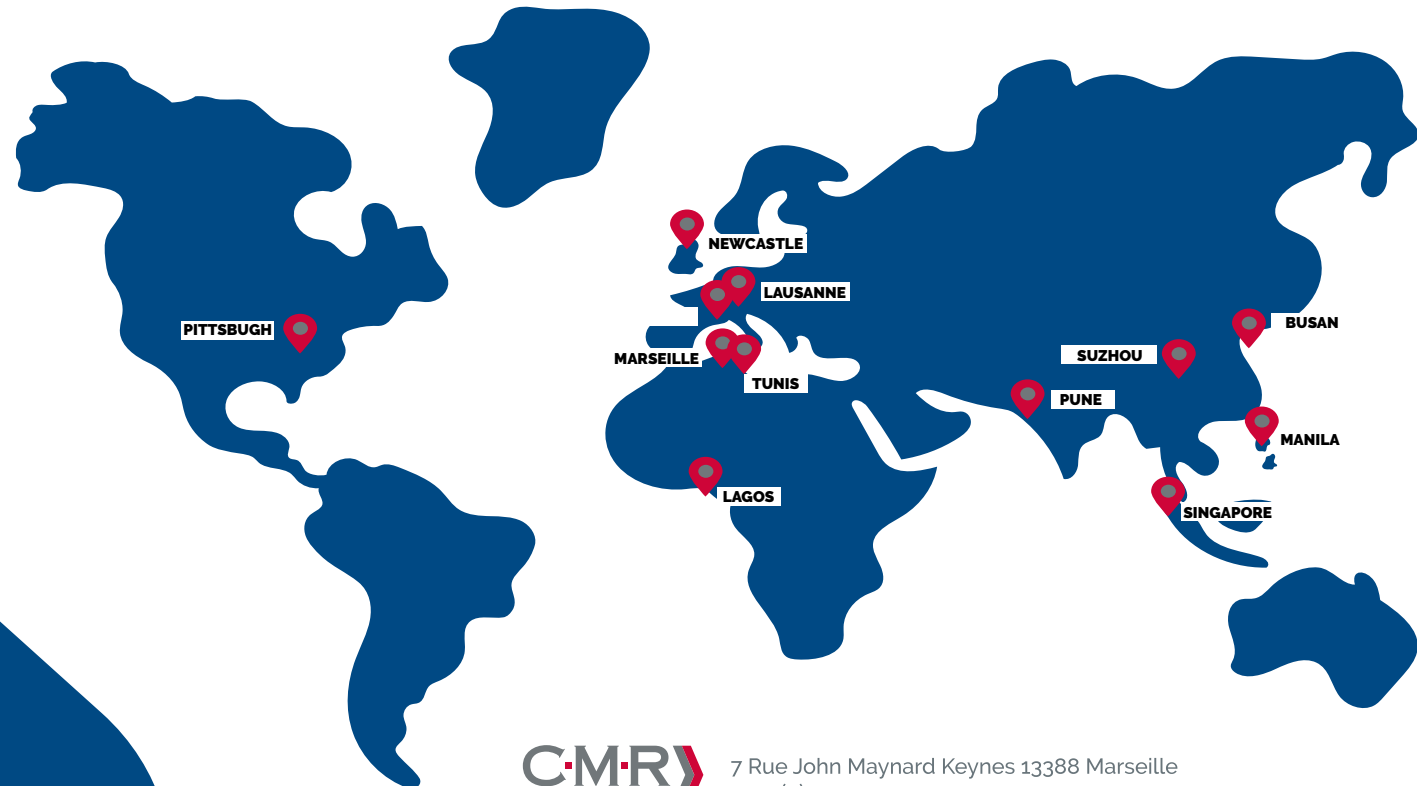
## CMR GROUP PROFILE

Created in 1959 with HQ based in Marseille, CMR develops, manufactures, and implements instrumentation, control and supervision solutions in the energy, industry and marine sectors, integrating its smart sensors and advanced automation systems.

Today, CMR has a global footprint in more than 10 countries in the world. Every day, more than 700 people provide proven and cost-effective solutions to continually design and market innovations in sensor and supervisory system technology.

The reliability of our products is constantly monitored by regulatory Nuclear and Marine agencies, as well as by our own Quality Department. CMR manufactures under ISO 9001-2008 and ISO 14001,02 (AFAQ certification).

To continue in our will to diversify our activity in the field of renewable energies, more precisely in hydro and solar hybrid, Costronic and GreenElec joined CMR in 2019. Costronic is a Swiss company specialized in Control solutions for hydro power plant & electrical substation and GreenElec, located in Nigeria, distributes solar solutions for energy efficiency and C&I applications. Through these two companies, CMR ensures its legitimacy in the field of renewable energy by offering its customers turnkey solutions. A new step towards energy transition and the diversification of CMR activities. An extensive network of agents and dealers strategically bases, complete our international presence.



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## NUCLEAR EXPERTISE INSTRUMENTATION & CONTROL OVERVIEW



## KEY FIGURES

CMR is your qualified and long-term partner to deliver instrumentation systems and control solutions dedicated to new and retrofit nuclear power plants.

For these applications, CMR designs & develops a qualified range of temperature sensors, automation and monitoring systems, ensuring the reliable and safe operation of nuclear power plant facilities.

Designed in compliance with nuclear requirements, our equipment can operate under failure conditions in compliance with the nuclear power plant life time.

CMR has been supplying nuclear temperature sensors, thermowells, transmitters and monitoring system in more than 100 NPP from 1980s. CMR is today recognized as a global leader in the Nuclear industry.

**+100 NPP  
INSTALLATIONS**

**10  
COUNTRIES  
WORLDWIDE**

**+60 M€  
REVENUE**

**+700  
EMPLOYEES**

**1959  
SET UP**



**AN SERIES :**  
Recommended for the measuring of fluid temperature under pressure mounted in thermowell

- RTD 4-wires (or 2 x 4-wires)
- Or, Thermocouple K type simplex or duplex
- Measuring range: 0-400°C
- Classification: AIP-NC, K3 & K3ad according to RCC-E 2012

**CTP SERIES :**  
Recommended for the measuring of surface temperature

- RTD 4-wires (or 2 x 4-wires)
- Or, Thermocouple K type simplex or duplex
- Measuring range: 0-400°C
- Classification: AIP-NC

**AMB SERIES :**  
Recommended for the measuring of Air temperature on HVAC system or ventilation duct

- RTD 4-wires (or 2 x 4-wires)
- Measuring range: -35°C/+120°C
- Classification: AIP-NC, K3 & K3ad according to RCC-E 2012

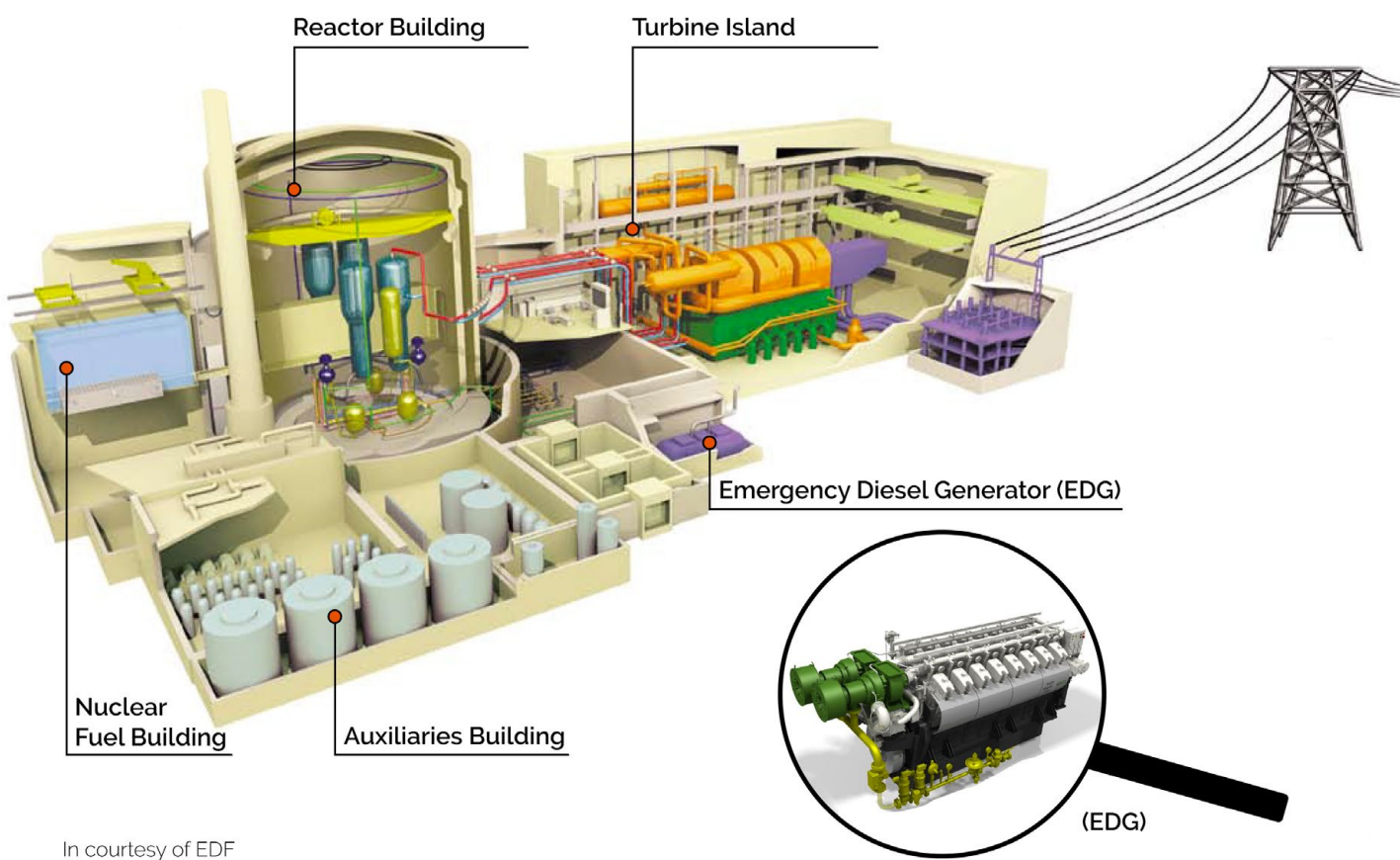
**THERMOWELL AND FLANGES :**  
CMR design and provide a huge range of thermowells and flanges used for Nuclear instrumentation

- Material in SS 316L or other steel on demand
- Designed for high pressure application
- Classification: AIP-NC and RCC-M

**BC/BS SERIES :**  
Recommended for the measuring of bearing temperature on rotating machine

- RTD 4-wires (or 2 x 4-wires)
- Or, Thermocouple K type simplex or duplex
- Measuring range: 0-200°C
- Classification: AIP-NC, K3 & K3ad according to RCC-E 2012

## NUCLEAR POWERPLANT DETAILED OVERVIEW, WITHOUT AIR COOLER



**MONITORING  
UNITS TOTALLY  
CONFIGURABLE**



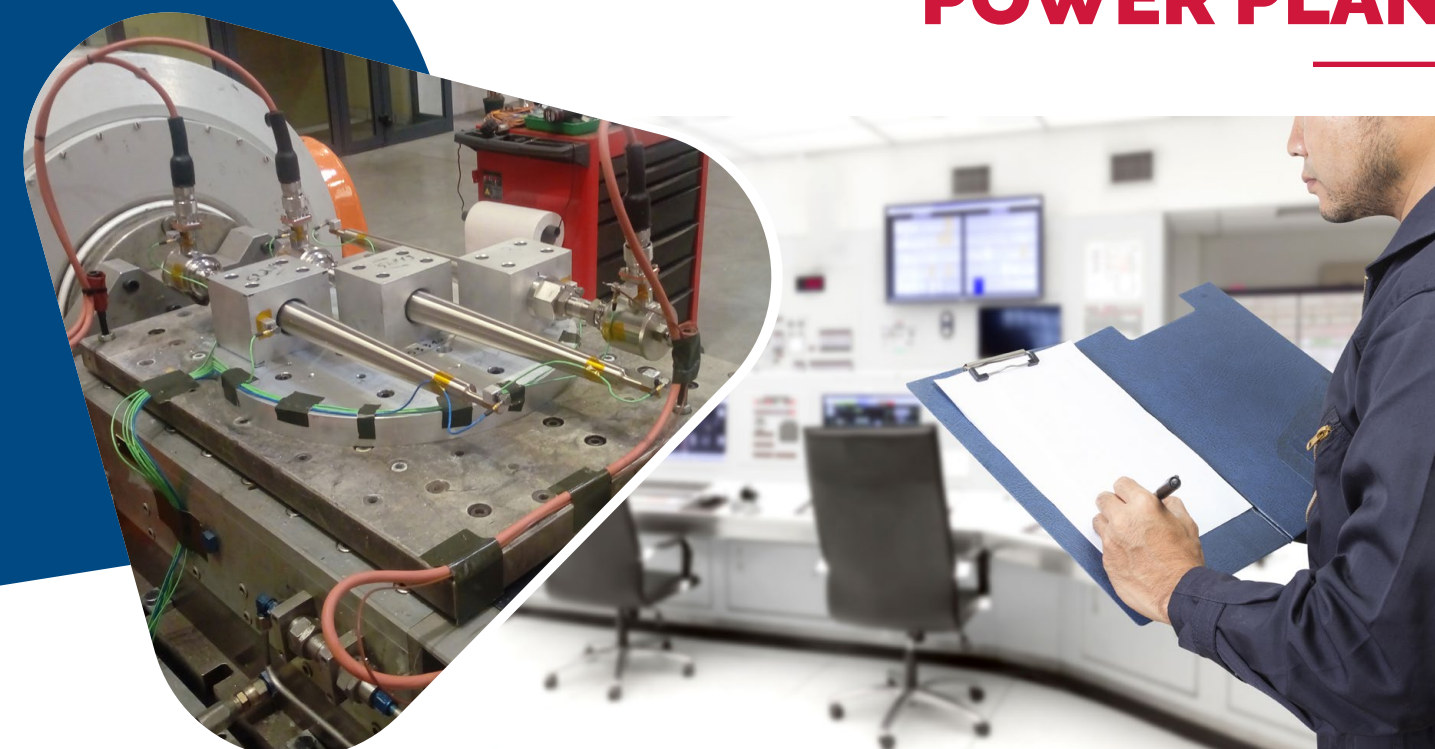
Designed for Nuclear environment, our S128NG & S129NG monitoring units are the simplest way to perform efficient monitoring of Emergency Diesel Generators parameters (EDG)

- ✓ EDG MAINTENANCE PROGRAM CAN BE SCHEDULED
- ✓ EDG SERIOUS DAMAGES CAN BE AVOIDED
- ✓ EDG CAN BE MAINTAINED TO ITS OPTIMUM PERFORMANCES



Modular construction based on racks (19 inch)  
Custom made according to EDF specifications our 425NG monitoring systems are design without any integrated software.

## YOUR QUALIFIED PARTNER FOR NUCLEAR POWER PLANT



**SPECIALIZED IN NUCLEAR POWER PLANT APPLICATIONS, CMR IS ALSO RECOGNIZED AND CERTIFIED BY ITS CUSTOMERS FOR ITS ENGINEERING.**

Our qualified skills include the following expertise

- ✓ Electricity
- ✓ Automation & Control Command
- ✓ Instrumentation including qualified nuclear sensors
- ✓ Data Acquisition, Monitoring & Supervision
- ✓ System Integration
- ✓ Communication Network
- ✓ Intervention on site

In addition to our know-how, CMR is committed to provide its best possible services with only one target: **the proper completion of your project including:**

- ✓ Supply chain & Quality management
- ✓ Scheduling
- ✓ Project Management
- ✓ Installation, commissioning & Technical Support

## INSTRUMENTATION AND CONTROL OVERVIEW :

CMR offers a wide range of custom and standard high-performance temperature sensors and accessories for safety-critical and Nuclear environment. We perform the engineering development, manufacturing, qualification and the supply chain management to provide you a high level of services.

