

# M.V. Power Factor Correction for Oil & Gas Megaproject



**COMAR Condensatori** is proud to announce the supply and commissioning of 2 **medium voltage** automatic power factor correction systems from **3.5Mvar** to **11kV**. This supply has just been installed at the **Pengerang Integrated Petroleum Complex** in **Petronas**, Malaysia.

Thanks to a perfect engineering combination of special medium voltage components, the solution has been integrated into 20-foot **containers** with **IP55** protection degree. This type of solution, in addition to guaranteeing the necessary degree of protection required by the project specifications, has made it possible to transport the equipment by sea without the aid of wooden crates or other packaging, thus reducing the environmental impact and ensuring - at the same time - faster installation.

*Staff training  
following the  
correct  
installation of the  
two power factor  
correction  
stations at the  
new Petronas  
plant in  
Pengerang.*



In fact, the installation in containers allows to **reduce commissioning times**, as it is possible to position the equipment directly on the base when it arrives on site, as well as the rental costs of the lifting equipment necessary for unloading and positioning .

Each of the two power factor correction systems installed is composed of three banks of capacitors, equipped with **blocking reactors**, with a total power of **3.5Mvar** at a network voltage of **11kV**. Furthermore, the two devices can operate in a **master / slave** configuration, as the customer has asked to be able to guarantee a certain continuity of service even in the event of an exchange failure of the utility power lines.

*Final moment of the on-site Acceptance Test (SAT) in which the system is tested in accordance with the customer-approved test plans and specifications. It has been verified that the system is installed correctly and interfaces with other systems and peripherals at the inside his work environment.*



Although **COMAR** is mainly known for low voltage power factor correction equipment, for over 6 years it has also been designing and manufacturing medium voltage solutions, up to **24kV**. The engineering expertise, combined with the company's historical flexibility, allows COMAR to develop turnkey solutions for EPC and end customers, appreciated all over the world.



*COMAR supplies a complete range of MV solutions, from capacitors to automatic power factor correction systems.*