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TranzCom supplies sustainable capacitor banks for the Zeebrugge LNG terminal

February 19, 2020 - Gas network operator Fluxys Belgium has recently commissioned the largest 180,000 m^3 LNG storage tank. In 2015 this impressive building was awarded to Duro Felguera. This Spanish global player has partnered with TranzCom and our partner Maschinenfabrik Reinhausen for the study, design and construction of capacitor banks. Central to this project are four regulated 6kV capacitor banks in addition to a Master Controller Cabinet every cos. To improve Phi.

- Capacitor bank 1 delivers a total power of 6.560Mvar, divided into 4 steps, each of 1640kvar
- Capacitor bank 2 delivers a total power of 4.920Mvar, divided into 4 steps, 2 steps of 1640kvar and 2 steps of 820kvar
- Capacitor bank 3 delivers a total power of 1,640Mvar, divided into 3 steps, 2 steps of 410kvar and 1 step of 820kvar
- Capacitor bank 4 delivers a total power of 1,230Mvar, divided into 3 steps, each of 410kvar

Each capacitor bank has its own cos. Phi controller to the cos. To compensate Phi of "his own" transformer in the context of the fifth and largest LNG storage tank. With the help of the Master Controller Cabinet, however, it is possible to change the cos. To neutralize Phi of the entire storage unit in Zeebrugge. If necessary, one or more capacitor banks can be used to over-compensate their "own transformer" (capacitive load) so that ultimately the cos. Phi at the 36kV level remains within the set values.

Our end customer is particularly delighted with the seamless installation of the capacitor banks type POCOS on the LNG terminal in Zeebrugge. This investment is part of the 20-year contract between Fluxys and Yamal, which can transfer up to eight million tonnes of LNG per year. In addition, the new storage unit will serve as a link for worldwide distribution of LNG directly from Siberia, requiring continuous energy flow.

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