

Sub-Group System Frequency

The TSOs of the Regional Group Continental Europe (RG CE) are responsible for maintaining the frequency at the level of 50 Hz. Deviations from this prescribed level are unavoidable, but should be kept as low as possible, and should never take out the limits beyond and beneath which the reliable and secure functioning of the transmission system operation could be endangered.

The Sub-Group System Frequency (SG SF) of the Regional Group Continental Europe (RG CE) deals mainly with projects related to the load-frequency control and system performance aiming at improving the system operation and providing necessary background for new operational procedures.

The main tasks of the Sub-Group refer to frequency behaviour and operational reserves.

Within the scope of the frequency behaviour, the Sub-Group monitors and reports on primary and secondary control quality and the frequency quality (performance and deviations), provides special measurement campaigns, and promotes the exchange of on-line and offline measurements and the analysis of system behaviour.

It also locates the most significant causes for the increasing frequency variations, defines proposals for improving the frequency quality considering market mechanisms, and recommends common procedures, principles and/or new tools for systematic event recordings and statistics.

The analysis of selected events, including system incidents from the perspective of system frequency, the identification of needs for new technical standards, recommendations, methodologies and co-operation rules among TSOs for Load-Frequency Control, and advising the Project Groups dealing with system extension in the area of operational issues are also within the scope of interest of the Sub-Group.

As to operational reserves, the Sub Group System Frequency assesses, reviews and regularly approves the coordinated amount of necessary control reserves, monitors and reports on control reserves (including redistribution of primary control reserves), and performs simulations for border-crossing exchange of primary control reserve.