

# Transmission Management System(TMS)

In order to ensure the safety of power supply, the transformation equipment must be maintained in off-line regularly. However, these works will put stability of power grid under threat and increase the outage risk for users. Also, it usually takes a longer time to submit a request for planning outage, and the missing of notification between departments will cause the planning outage repeatedly.

In order to improve the procedures of requisition and management for planning outage, “Transmission Management Systems (TMSs)” are established in all power supply dispatch. The e-maintenance for planning outage is implemented, the duration of submission for planning outage is reduced, and the risk of omissions is reduced. Also, the integration into Power Management System(PMS) in CDCC achieves the task of integration vertically of planning outage managements.

At present, the first trial of TMS is implemented in Kaohsiung power supply dispatch, the first phase of TMS focused on e-management for off-line maintenance, which was launched on September 19,2019 officially, and the e-service is comprehensive on November 1, 2019. Querying schedule of off-line maintenance through mobile app is expected to be added into TMS in March this year. The first phase of the TMS system will be successively implemented in each power supply dispatch in March this year and it is expected to be launched in June.

In the future, the second phase of TMS will be contracted in September this year. It is expected that map data function will be introduced. Real-time control of the power flow and risk analysis from the map data after a power outage are able to facilitate the risk management. When unexpected failure occurred on the transmission line where risk management is implemented, staff on duty will be alert by map data and the accident will be

handled next.

The second phase of TMS also includes e-planning outage, data-researching of outages over the years, e-log and mobile researching for planning outage etc. In this way, the integration of the various interfaces is expected to avoid repeated power outages, and grasp the status of the power system at any time, thereby the value of SAIDI and SAIFI will be reduced.

