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**Technology Research on Grid Source Coordination Monitoring System Based on
Dynamic Measurements**

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Sponsors/Vendors Panel

Aiming at the major challenges faced by the grid source coordination management of power system under the new energy situation, it is proposed to build a grid source coordination online monitoring system to overcome the weakness that data sampling rate is not high, sampling accuracy is insufficient, important parameters are missing, lack of continuous monitoring and tracking, etc., to achieve accurate monitoring of power plant equipment, not only to improve the fault location and rapid traceability, but also improve the predictive ability of the grid running state, to achieve the improvement of auxiliary decision-making level.

The project aim is to study the problems of speed regulation, excitation and primary frequency modulation of the generator

In the project, one of the most important innovations is that: Research and design the overall framework of the online monitoring system, propose and implement the three-level system architecture scheme which covers from the dispatching master station to data acquisition device via power plant substation, adopting modular and integrated design principles, based on the NR platform, The online seamless loading technology ensures the safe and continuous operation of the system and applies the cluster technology to ensure the operation requirements of the large-capacity data access of the power grid unit.