

# **The Spanish AGC system: Description and analysis**

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## **Abstract-**

**This paper describes and analyzes the Spanish AGC system. The differences with respect to a standard hierarchical structure are explained. A simple model useful for simulation is proposed. Using this model, the performance of the system and the influence of several parameters in system response is evaluated. The paper also suggests some changes in the configuration and parameter settings of the system to improve its performance.**

**Index Terms-** Automatic generation control (AGC), Frequency domain analysis, Transfer function identification

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## **Citation:**

*Egido, I.; Fernández-Bernal, F.; Rouco, L. "The Spanish AGC system: Description and analysis", IEEE Transactions on Power Systems, vol.24, no.1, pp.271-278, February, 2009.*