

عنوان مقاله:

A New Method of Static ATC Computation in a High- Penetration Wind Farm

محل انتشار:

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خلاصه مقاله:

The present research is a pioneering work in the studies of wind farms in Iran and an attempt to compute static ATC with a high penetration of wind farm. This research investigated Python's ability (in DlgSILENT) in a power system. It also investigated the effects of adding several wind farms to the Iranian grid through a static and dynamic analysis of static and dynamic constraints, transient stability and reliability. At the end of this research, a new method is presented entitled as the Quadratic Approximation of the path of the Minimum Distance Curve (QAMDC) via Python in DlgSILENT. This method can compute static ATC in a large wind farm. These analyses were tested on a segment of a real Iranian network called Khorasan with 2000 buses

کلمات کلیدی:

Available Transfer Capability (ATC), Voltage Stability (VS), Transient Stability (TS), Reliability, Wind Farm, Python, DlgSILENT

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