

Onshore Wind Farms

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Dynamic Stability and Applications in Hydrogen Production

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LIST OF ACRONYMS

3LG	three-line to grid fault
CB	circuit breakers
CHP	combined heat and power
DFIG	doubly fed induction generator
ECS	energy capacitor system
EDLC	electric double layer capacitor
FACTS	flexible AC transmission system
FCM	fuel cell mode
FES	flywheel energy system
FRT	fault ride through
FSWT	fixed speed wind turbines
GSC	grid side converter
HCS	hill climbing search
IG	induction generator
IGBT	insulated gate bipolar transistor
LPF	low pass filter
LVRT	low voltage ride through
MCC	multicellular converter
MPPT	maximum power point tracking
MSC	machine side converter
NGC	national Grid Company
PCC	point of common coupling
PI	proportional integral
PLL	phase lock loop
PSCAD/EMTDC	Power System Computer Aided Design and Electromagnetic Transient Including DC
PWM	pulse width modulation
RC	resistor capacitor
RSC	rotor side converter
RTDS	real time digital system
SC	superconducting coil
SCIG	squirrel cage induction generator
SDBR	series dynamic braking resistor
SMES	superconducting magnetic energy storage
SSC	stator side converter

STATCOM	static synchronous compensator
SVC	static var compensators
TSR	tip speed ratio
URFC	unitised regenerative fuel cell
VAR	voltage automatic regulator
VC-VSC	voltage controlled voltage source converter
VSC	voltage source converter
VSWT	variable speed wind turbine



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