

Inhaltsverzeichnis

1	Large Scale Electrolysis Herausforderungen im Netzanschluss gelöst durch fortschrittliche Leistungselektronik.....	1
	Bernhard Voll (SMA Altensso GmbH)	
2	Small-Signal Stability and Interaction Analysis of Grid-Forming and Grid-Following Converters in Converter-Dominated Power Systems	8
	Christina Zuromski and Christian Becker (Hamburg University of Technology)	
3	Novel Approach for Flexibility Aggregation at Multiple Vertical TSO-DSO Interconnections...	18
	Lars Stark and Lutz Hofmann (Leibniz University Hannover)	
4	Analysis of Voltage Sensitivity as System Strength in Future Power Grids	25
	Julian Struwe, Holger Wrede (University of Applied Sciences Duesseldorf) and Hendrik Vennegeerts (University of Duisburg-Essen)	
5	Grid Stabilization by Preventing Undesired Triggering of the Reverse Power Protection of Steam Turbines at Overfrequency.....	33
	Johannes Lips (University of Stuttgart), Philipp Maucher (Netze BW GmbH), Joachim Lehner (Transnet-BW GmbH), Martin Bennauer, David Maier and Hendrik Lens (University of Stuttgart)	
6	Power Control inside Hydrogen Storage Power Plants.....	39
	Mirco Fabian Woidelko and Christian Becker (Hamburg University of Technology)	
7	A Comparative Study for an Overall Grid-Forming System of HVDC and Offshore Wind Farm to Emulate Conventional Power Plants	49
	Moritz Hildebrandt, Christian Neumann, Nastaran Hammes and Hans-Günter Eckel (University of Rostock)	
8	Generalized Active Power Balancing in Multi-Terminal DC Systems	56
	Sebastian Weck (University of Applied Sciences Darmstadt)	
9	Vermessung netzbildender Stromrichter zur Analyse des Stands der Technik	62
	Christian Schöll (TransnetBW GmbH), Florian Rauscher, Janek Massmann (Tennet TSO GmbH), Sebastian Küchler (50Hertz Transmission GmbH), Roland Singer, Philipp Ernst and Sönke Rogalla (Fraunhofer-Institut)	
10	DC Offshore Wind Farms to Support Grid Restoration.....	68
	Robert Annuth and Christian Becker (Hamburg University of Technology)	
11	Frequency-constant grid operation for power systems with zero inertia.....	77
	Hassan Alhomsy, Franz Linke, Nizam Halawi, Steffen Schlegel Dirk Westermann (Technische Universität Ilmenau), Michael van der Straeten, Tobias Hennig, David Steber and Martin Finkelmann (Amprion GmbH)	
12	A data-driven assessment of underfrequency load shedding and its dependence on distributed generation for Germany.....	83
	Benedikt Jahn (University of Stuttgart), René Suchantke, Alexander Brunne (50Hertz Transmission GmbH), Janek Massmann, Roland Becker (Amprion GmbH), Georg Deiml, Michael Orlishausen (Tennet TSO GmbH), Joachim Lehner, Bernd Vesenmaier (TransnetBW GmbH) and Hendrik Lens (University of Stuttgart)	

13	Stability Analysis of Converter-Dominated Power Systems by Phasor-Based and Electromagnetic Transient Simulation.....	89
	Dominik Frauenknecht, Bernd Schweinshaut, Alexander Raab, Gert Mehlmann, Matthias Luther (Friedrich-Alexander-Universität Erlangen-Nürnberg), Pascal Wiest, Chris Heyde (Siemens AG) and Anatoli Wellhoefer (Technical University of Applied Sciences)	
14	Investigating Network Topology Optimization in the German Transmission Grid Using Real Operational Planning Data.....	94
	Felix Preuschoff, Christian Fester, Albert Moser (RWTH Aachen University), Sebastian Stein, Julian Lichtinghagen and Andre Hoffrichter (Amprion GmbH)	
15	Modellierung und Simulation von Erregersystemen für höhere Frequenzen	101
	Rüdiger Kutzner (Hochschule Hannover), Eric Daube, Achim Degenhardt, Andreas Schmid, Uwe Seeger und Martin Bennauer (Siemens Energy)	
16	Bereitstellung von Momentanreserve aus Offshore-Windparks: Vom Systembedarf zur technischen Realisierung.....	106
	Sebastian Höhn, Florian Rauscher, Georg Deiml und Maria Nuschke (Tennet TSO GmbH)	
17	Netzintegration von Großelektrolyseuren: Systemstabilität und Anforderungen bei hoher lokaler Konzentration	116
	Florian Rauscher, Dominik Robin, Sebastian Höhn, Daniel Stenzel und Georg Deiml (Tennet TSO GmbH)	
18	Lessons learned from grid restoration and islanded operation tests with hydropower plants...	126
	Darko Brankovic, Dominik Grall, Robert Schürhuber, Herwig Renner(Graz University of Technology), Andreas Abart (Netz Oberösterreich) and Jürgen Pasker (Kärnten Netz)	