A1-A18	Iour 1	- Control 1
A1	10126	An Operational Data-Driven Malfunction Detection Framework for Enhanced Power Distribution System Monitoring – The DeMaDs Approach
A2	10478	DLR as the Tool for Providing Flexibility Services in the Distribution Network
A3	10562	Distribution Automation System Field Test in Jakarta MV Network
A4	10590	A Dynamic Voltage Controller For LV Grids Based On Flexible PV Systems And The Smart Metering Infrastructure
A5	10628	Developing Low-Voltage Operational Functionalities
A6	10751	Delivering The Benefits From A Common Disturbance Information Platform To Prevent Unplanned Outages
A7	10769	Automated Detection of Non-Compliance with DER Interconnection Requirements and the Laboratory Testing of an EDF developed solution
A8	10773	Economic Model Predictive Control for the Energy Management Problem of a Virtual Power Plant Including Resources at Different Voltage Levels
A9	11040	A Collaborative Engineering and Validation Framework for Smart Grid Automation Applications – The PowerTeams Approach
A10	11125	Automatic System for Evaluation of Lightning Events in Power Grid
A11	11156	From blackouts to flexibility: case study from Burkina Faso
A12	11180	5G-Based Fault location, Isolation, and Service Recovery
A13	11214	A secure Automation Solution to Provide Flexibility at Low-Level Grid – Middleware Services
A14	11284	First Practical Results Of Continuous Grid-Serving Power Control In Low-Voltage Network Via Novel Power Management Concept
A15	10958	Supervised Learning for Fault Classification Using Hybrid Training Datasets
A16	11293	Al To Detect Anormal Switching Operations
A17	11370	Intermittent Earth Fault Detection in Distribution Network based on the voting classification technique
A18	11384	Solving Issues Of The Distribution Network Of Harstad (Norway) In Real Time Using Machine Learning-Based Observability To Place Flexibility Orders

C15-C30	Tour 2 - Cor	nmunication
C15	10115	Data hub based secure integration of DER Assets with Utilities, DSO and Retail
C16	10204	Innovative 5G Transmission For Anti-islanding Protection In MV Distributive Network
C17	10256	An Implementation of IEC 61850 for Microgrid Control
C18	10299	TLC Strategy For Power Distribution Grids
C19	10352	The Potential of Emerging Communications Technologies in Distribution Grid Management
C21	10725	5G Edge for Power System Applications
C22	10760	E-REDES' IEC61850 Specification for PAS Interoperability
C23	10816	Primary Substation Protection and Control System: Future Architecture Proposal
C24	10999	A 5G Communication-Based Wide Area Protection Concept for Enabling Resilient and Reliable Loss of Mains Protection
C25	11042	Validation Of MPLS-TP For Tele-Protection / Current Differential Protection Services Via Proof Of Concept
C26	11124	Building a Realistic Sampler to Emulate Communication Delays in PLC-Operated Low Voltage Networks
C27	11207	Four Problems for Digital Substations I wish to be solved
C28	11373	Concept And Implementation Of A Gird Simulation Framework Utilizing Containerized IEC 61850 Compatible IED
C29	11389	Low Voltage as the final frontier for Broadband over Power Line
C30	11506	Real Time Digital Simulation and IEC 61850 Standard: Interoperability Test Between OPAL-RT and Typhoon HIL Simulators

A19-B10	Tour 3 - Control 2 / Communication	
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A19	10481	Optimised Operational Management Of Distribution Grids By Utilising Flexibilities Through Automation Of Electrical Assets Using A Multi-Agent-System Approach
A20	10602	A Real-Time Optimal Operation Strategy for Active and Reactive Power Sources in Smart Distribution Systems
A21	10736	Converter-Driven Stability In A Distribution Grid With High Penetration Of Inverter-Based Generation

A22	10815	Selfhealing - FLISR in Underground and Overhead Real the First Performance Results
M6	10955	A Study on the Fault Current Limiting and Interrupting Operation Technology of MVDC Systems Using a Protective Equipment
M5	11144	PMU-Based State Estimation and Fault Analysis in Active Distribution Grids: A Case Study for Kythnos Island, Greece
M4	11189	Equivalent DC Impedance of a Three-phase Impedance through an Inverter
М3	11218	Semi-Distributed Automatic Scheme for Self-Healing Implementation in Distribution System
M2	11248	Implementation Of An Advanced Remote Engineering Platform
M1	11306	An Edge-Fog Computing Approach For Advanced Distribution Management Systems For The Low-Voltage Network
B1	11318	Control Architecture and Algorithms for Isolated Microgrids
B2	11401	Demonstration of a Concept for the Data Management and Monitoring of Larger Scale DER Utilizing a Time- series Database
В3	10429	Distributed Ledger Technology for Monitoring Operations Carried out on the Embedded Generation Units
B4	10446	A Cyber-Physical Digital Twin Approach to Replicating Realistic Multi-Stage Cyberattacks on Smart Grids
B5	10612	Is the Cybersecurity Standard IEC62443 Applicable to Distribution Substations?
В6	10777	Secure and Resilient IoT and Cloud-Based Infrastructure for Electric Vehicles Recharge Systems
B7	10808	Root/Chain of Trust in Complex Energy Distribution Systems
B8	11181	Operational Considerations for Substation Security
В9	11197	Interoperability Raises Two Challenges: Cybersecurity & Maintenance
B10	11474	Performance Evaluations For The Configuration Of IEC 62351 Cybersecurity Profiles In Energy Telecontrol Scenarios

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C32	10210	A Study on Automatic Fault Isolation of Closed Loop System in Power Distribution System
C33	10488	Estimation Of TOVs Due To Single Phase To Earth Fault By Means Validated Model By Comparison With Measurements From Real Fault Tests
C34	10519	A Robust Fault Location Method for MV Distribution Feeders
C35	10526	Fault Location Method for Medium Voltage Cables Using Measured Sheaths Current in the Presence of Renewable Energy Resources
C36	10788	Field Validation of a Novel Fault Location Solution Using Synchronized Phasor Measurements in Active Distribution Networks
D1	10951	Fault Location for Multi-Terminal Lines
D2	10974	Phase-to-Earth Faults Causing Inaccuracy of Distance Protection in Low Impedance Earthed Power Systems
D3	11304	High Impedance Fault Detection for MV Distribution Networks
D4	10266	Pilot Test of the Method Vdip for an Earth Fault Localization
D5	10401	Optimising the Safety, Reliability and Efficiency of rural distribution networks
D6	10504	Differential Voltage Grid Protection
D7	10647	Novel Touch Voltage–Based Earth–Fault Current Protection For Ensuring Dependability And Electrical Safety In Modern Compensated MV–Distribution Networks
D8	10655	The impact of Neutral Treatment and Earth Fault Protection on Resiliece and Reliability of High Voltage Grid
D9	10744	Improved Method for Earth Fault Location in MV Distribution Networks with Compensated Neutral Grounding
D10	11172	Evaluation and Influences of Harmonic Earth Fault Currents
D11	11343	Improvement Of Cable Fault Performance Using A Ground Resistor In Series With An Artificial Neutral
D12	10344	Requirements For Generating Plants To Be Connected In Parallel With Distribution Networks – Focus On EN 50549 Series
D13	10717	A Validation of IED for Networked Distribution System
D14	11311	Protection System Analysis in Microgrids with DSO Static Generation

B11-B31	Tour 5	- Automation 1
B11	10116	Standard IEC 61850 based real-time DER interface for The Netherlands
B12	10276	Success deployment of 6 digital substations in Vietnam 2020-21 – Return of experience
B13	10314	An Efficient Hybrid Control and Protection Strategy for Frequency Regulation of Low-Inertia Power System
B14	10473	Practical Review And Advancements In Testing Multi-Vendor Digital Substations
B15	10690	Frequency Droop Characteristic for Grid Forming Battery Inverters – Operation in Islanded Grids with the Infeed of Distributed Generation Systems
B16	11018	Alternative Low-Frequency Demand Disconnection (LFDD) Solutions for UK Distribution Network Operator Implementation
B17	11033	Decentralized Management of Distributed Energy Resources for Frequency Support – Finnish Pilot

B18	11078	Automated MV Switching Based On AMI Data
B19	10104	Generation of Synthetic Examples Using Generative Adversarial Networks (GAN) to Extend a Database of Fault Signals on Power Distribution Lines
B20	10191	Machine Learning Based Grid Optimization Algorithm for Real-time Applications
B21	10378	A Physical-Neural Network Approach For Residential Load Forecasting With Dynamic Load Control
B22	10450	Performance Evaluation of an Autoencoder State Estimator with Realistic Low Voltage Grids Reconstructed from Open Data
B23	10524	AI-Based Controller for Grid-forming Inverter-Based Generators Under Extreme Dynamics
B24	10597	Machine-Learnt State Estimation For Optimization In Low Voltage Distribution Grids
B25	11022	Object Detection Algorithms Applied On Low Voltage Grid Equipment
B26	11276	Edge Computing for Improving Energy Management in Smart Homes
B27	10156	Voltage Regulations Solutions for Low Voltage Distribution Network with Large PVs Integration: Performance Analysis with A Real Swiss Case
B28	10166	Analysis of Control Algorithms on Different Low-Voltage Grid Clusters
B29	10189	Detection of Neutral Loss in Distribution Networks Using Smart Meters Records
B30	10226	Optimized Provision of Local Ancillary Services With Sensitivity Factors Using Prosumer Flexibility
B31	10238	Evaluating State Estimation Performance On Distribution Circuits With High PV Penetration

D15-E8	Tour 6	- Protection 2
D15	10284	Experimental Validation of a Novel Stator Interturn Fault Detection Method in Induction Motor
D16	10541	A Comparison Between Different Inertia Estimation Algorithms in Smart Grids Applications
D17	10729	Implementation and Test of Frequency Estimation Methods for RoCoF-based Load Switching in Islanded Grids
D18	10856	Distribution Network Fault Prediction Utilising Protection Relay Disturbance Recordings and Machine Learning
D19	10988	Hardware-In-The-Loop Investigation Of Distance Protection Algorithm In Grids With Dominant Decentralized Generation Units
D20	11038	A New Adaptive Auto Reclosure Approach With Secondary Arc Detection
D21	11382	Advancing the Capabilities of OpenDSS: A Directional Overcurrent Relay Feature for Modelling Modern Microprocessor Network Protector Operation Modes
D22	11383	EPRI Distribution Protection Analysis Toolkit
D23	10187	Experience Sharing : Self Powered Relays - Simulated Over Current Phase & Earth Fault Testing
D24	10435	Open Phase Fault Analysis in MV Distribution Grids with Resonant Grounding
D25	10551	A Study on the Protection Scheme for LVDC Distribution System in Commercial Buildings
D26	10582	HIL Testing and Future-Proofing of UFLS Schemes
E1	10646	Multidomain Considerations Of Secondary Maintenance Approaches To Ensure The Reliability Of Network Protection Systems
E2	10877	Performance Of A Digital Distance Protection Relay During Short Circuits In Presence Of A Converter Connected Grid
E3	10995	Challenge: Frequency Measurement In Different Applications
E4	11037	Key Performance Indicators (KPI) For The Testing Process Of An IED
E5	11128	Optimized Low Voltage Power Fuses For Current Requirements In Low Voltage Power Grids
E6	11200	Interconnected Grid Protection Systems – Reference Grid For Testing An Adaptive Protection Scheme
E7	11274	Secondary Wiring Checks by Combining Sawtooth Polarity Detection and Voltage Measurement
E8	11280	Functional Testing of Virtualized and Centralized Protection Systems

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B32	10291	QUEST - An Overarching System Control Solution
B33	10296	GEMS: Development Of Automated Generator Dispatch For The Purpose Of Maximising Built Asset Utilization
B34	10303	Voltage Regulation in a LV Distribution Network (With Renewables, Storage Systems and Electric Vehicles) – An Optimization Formulation
B35	10880	Voltage Regulation in the LV Network with Variable Generation Based on Online Measurements from Smart Meters with the use of the On-Load Tap Changer
B36	11085	Load Modelling for Volt-var Optimization Control in Limited Network Visibility – a Case Study in Malaysia
C1	11173	Development of Local Autonomous Method for Power Distribution System with Battery Storage System
C2	11216	Architecture of Advanced Distribution Grid Voltage Control Method Utilizing Edge Computing Solution
C3	11419	Decentralized Grid Control Using Power Grid State Estimation

C4	11479	Development of Photovoltaic Power Generation Output Estimation Method Using Distribution System Sensor
		Information
C5	10249	Smart Meters for Grid State Identification with Use Case for Agent-based Local Energy and Flexibility Markets
C7	10305	Metric for Analysing Cooperative and Competitive Algorithms for Distributed Frequency Control in Microgrids
C8	10600	An Interoperability-by-Design Approach For Designing Smart Grid Solutions
C9	10603	Microgrid Control Strategy to Achieve Seamless Transition from Grid Connected to Islanded Mode
C11	10971	LV Automation Solutions for Resilient, Flexible and Optimized Smart Distribution Grids
C12	11058	Cognitive Data Fusion for Improving Flexibility in Smart Homes
C13	11368	Grid-Forming Control Modelling and Validation for Distribution Systems with Networkable Microgrids
C14	11480	The Smart Grid Lab in Hesse – Active Maximization of Annual Usage Time of Electrical Grids Using Flexibilities while Ensuring Data Security and Resilience at the same time

E9-E25		- Protection 3
E9	10451	A Standards-Based Engineering Framework for Virtualized Protection, Automation, and Control Systems
E10	10656	Virtualised Centralised Protection and Control – Constellation Project Case Study
E11	10702	Real-Time Performance of Virtualised Protection and Control Software
E12	10855	Real-Life Pilot Of Virtual Protection And Control – Experiences And Performance Analysis
E13	11222	Challenges and Considerations for the Design and Implementation of a Centralized Protection and Control Solution for MV Networks
E14	11227	Software Defined Substation Automation
E15	10326	Conceptual Design of Special Protection Scheme for Enhancing Renewable Energy Integration
E16	10336	Evaluation Effects And Preliminary Designing Of Sheath Reactors For Mitigation Of Overcurrent Flowing Through The Earthed Elements Of Underground Cables Following Cross Country Faults On MV Network
E17	10527	Arc Flash Mitigation on Main LV Switchboards by Protecting HV/LV Transformers Using Circuit Breakers
E18	10550	Characterisation of Sequence Components of Islanded Microgrid with Low Fault Current
E19	10592	Generic Methodology For Protection Plan Analysis With Inverter-Based Grid Forming And Grid Feeding Resources
E20	10689	On-line and Adaptive Protection System to Resolve Load Blinding Protection Scheme Limits in Networks with Highly Integrated DERs
E21	10793	TVP Liquid Immersed Transformers Protection Against Fast Transients
E22	10824	Short-Circuit Currents Characterization for Future Converter-Based Power Systems
E23	10953	Investigating the Impact of Topology Changes and Distributed Renewable Generation on the Protection Behaviour at Medium-voltage Level
E24	11326	Centre of Angles based Remedial Action Scheme using Synchrophasor Measurements in SP Transmission Network
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F1	10370	Data-driven Al Network Analysis
F2	11202	Al Supported Analysis Of Faults Caused By Atmospheric Exposures In Medium and Low Voltage Grids For Evaluation And Development Of Asset Management Strategies
F4	11279	Identification of a Causal Weather-QoS Model for Analysis and Planning of Distribution Networks
F5	11076	Machine Learning-based Identification and Mitigation of Vulnerabilities in Distribution Systems against Natural Hazards
F6	10306	Six-Sigma Technique to Identify Resilience Events on Electrical Networks
F7	10794	Towards Resilient Electricity Distribution Systems in Africa
F8	11015	A Climate Change Adaptation Action Plan For The Electricity Sector: E-REDES Experience
F9	11457	Measuring the Power Grid Resilience: A Case Study Applied to Brazilian Distribution Companies
F10	10234	Case Study: Using A Probabilistic Calculation To Determine The Lifetime Costs Of Assets With Alternative Gas Insulation
F11	10347	Design to Shared Value Methodology Applied to Power Grid Technologies Adoption
F12	10908	MV Network Maintenance Planning Decision Support Tool Considering Flexibility Of DER
F13	10922	Distribution Asset Thermal Ratings with Evolving Load Profiles
F14	10383	Climate Adaptation Plan for Distribution Networks

F15	11356	Overhead Lines and Underground Cables Asset Management – Best Practices and Challenges
F16	11302	Integrated Physical And Probabilistic Modelling Of Low Voltage Cable Temperatures, Stress Cycles, And Damage
F17	10567	Increase Hosting Capacity through Voltage Control Devices Setting Optimization Technology
F18	10753	Smart Recharging Infrastructure for Companies' EV Fleets: Technical Realization and Load Balancing Potential
F19	10833	Optimised Approach to Grid Development under Consideration of Digital Solutions
F20	10837	Sizing Of A Power Electronics-Based Voltage Regulating Device To Support The Integration Of Photovoltaics And Electric Vehicles In LV Grids
F21	10860	Increasing Network Intelligence: Implementing Distributed Local Automation to Reduce Power Interruptions in Distribution Networks
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12-123	Tour 2	- Network Development 2 & Distribution Planning 1
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13	10510	Primary Substation Open Standardisation Through Building Information Modelling (BIM) Implementation
14	10657	Investment Planning For Electrification Of Transport In An Industrial Port
15	10707	P2P Trading of RTPV Energy on Blockchain Platform
16	10828	The Portuguese DAR(Distribution Automation Roadmap) Toward a More Demanding Electricity Grid
17	10921	Leveraging Solar Energy Development To Achieve 100% Electrification Ratio In Nusa Tenggara Timur - Indonesia
18	11048	Dimensioning And Sizing Of An Energy Storage For Ports When Considering Both Fast And Slow Load Variations
19	11345	IANOS Project: Integrated Solutions to Decarbonise and Improve the Resilience of Electrical Power and Energy Systems in Geographical Islands
110	11405	Systematic Application of Series Compensation in Distribution Networks with Control and Protection
I11	10455	Planning Principles for Hybrid AC/DC Underlay Grids in the Medium-Voltage Level
l12	10574	Economic and Technical Benefits of Integrated Power and Gas Grid Planning in Distribution Grids
114	10398	ENeuron Project – Facilitating The Energy Transition In A Military Campus By Optimizing A Local Energy Community
115	10440	Main-Grid Versus Renewable MicroGrid Energy Supply A Case Study of Isolated Rural Areas in the Sultanate of Oman
116	10521	Planning Methods For DC Lateral Electrification In Rural Africa
l17	10764	Towards the Optimisation of a DC Nanogrid Considering Technical and Environmental Criteria
118	10789	Self-sufficiency and Lifetime Improvement of Community BESS on an LVDC Backbone Compared to Individual BESS
119	11001	MVDC Distribution System Application Scenarios and Economic Analysis
120	11413	Optimal Planning of University Campus Microgrid with High Penetration of Renewable Energy and Storage: UCCS Campus Case Study
122	11250	Experience In The Implementation Of Isolated Electrical Energy Generation Systems From Renewable Energy Sources- Solar Villages
123	10570	A Comparative Study of Optimal Planning of Distribution Systems: AC/DC Architecture vs. Conventional Strategies

F22-G18	3 Tour 3	- Distribution Planning 2
F22	10272	Flexibility as a Cost-effective Solution Applied to MV Lines Investment Deferral: Guidelines to Study and Pinpoint Opportunities
F23	10454	Flexibility Inside: How To Seamlessly Embed Flexibility In Dso Activity
F24	10144	Co-simulation Framework for the Provision of Flexibility Services for Distribution System Operators Using Electric Heating Systems
F25	10164	Planning Tool Of LV Network Of A MicroGrid Using Geographic Information Systems
F26	10192	Partitioning of Distribution System into Resilient Clustered Microgrids Using Complex Network Approach
G1	10251	Mitigating and Preventing Electricity Distribution Congestion and Constraints Through Energy System Integration an Integrated Energy System Analysis at DSO level
G2	10292	Technical Benefit Assessment for Network Automation Plans
G3	10297	Nested Energy Management System to Improve the Resilience of Remote Interconnected Microgrids.
G4	10762	Assessing The Impact Of Uncertainties Impact On The Techno-economic Performance Of Microgrids
G5	10766	Distribution Network Spare Capacity Unlocking Strategy (scus) to Integrate Heterogeneous Flexibilities
G6	10845	Probabilistic Impact Analysis Of Residential Batteries Providing FCR And aFRR On Low Voltage Grid

G7	10929	Modeling PV Facility Side - Impacts and Recommendations
G8	10943	Understanding the Effects of EV Management and TOU Tariffs on Customers and Distribution Networks
G9	10959	Future Of Thermal Plants On Microgrids With High Renewable Share
G10	11016	Operation And Planning Services For Active Distribution Networks – A BD4OPEM Project Use Case: Spanish Pilot
G11	11030	Distribution Planning Tool using Flexible Strategies: Case Study in Spanish Pilot
G13	11066	Methods and Future Scenarios for Strategic Grid Development of Full Low and Medium Voltage DSO Supply Areas
G14	11231	The Benefits Of Smart4RES Predictive Analytics
G15	11391	Contributions to Energy Management of Single-Phase AC Microgrids Used in Isolated Communities.
G16	11406	Integrated Method for Distribution Grid Expansion Planning Considering Operational Strategies of Residential Technologies
G17	11462	Distribution System Planning with models of flexibility markets
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124	10512	A 2020 Spanished of Bublic Smoot EV Charging Stations
124	10512	A 2030 Snapshot of Public Smart EV Charging Stations
125	10714	How Can Flexibility Support Power Grid Resilience Through The Next Level Of Flexibility And Alternative Grid
		Developments
126	11273	Domestic Demand Shift Trial for Local Network Management and Distributed Generation Curtailment Avoidance
127	10105	Innovative Digital Solutions That Enable Local Energy Communities to Provide Flexibility Services to the DSO: the
		Avacon Approach
128	10159	Enabling Distributed Energy Resources to Participate in Wholesale Energy Market and Provide Flexibility Services
129	10540	Conceptualization of Flexibility Solutions as an Alternative to Traditional Investment
130	10692	Decision Support for Matching Flexibility Measures to Flexibility Needs in Power System Planning
I31	10695	How To Ensure Interoperability In Demand Response Systems: The Examples Of The European Projects H2O2O GIFT
		And MAESHA
132	10755	Generic Technology Models To Simulate Flexible Operation In Multi-Energy Cellular Energy Systems
133	11133	Optimal Scheduling of Energy Storage System in Distribution Grids Using Service Stacking
134	11501	Flexible Methodology for Battery Swapping Stations Planning Operation in Support of Distribution Grids
135	10108	A Risk-Based Approach for Development Planning of Radial Distribution Networks
136	10193	Causal Network Analysis To Study Evolution Of Distribution System With DER Integration
J1	10315	Correlation Analysis on the Application Potential of Voltage Regulating Distribution Transformers in Medium- and
		Low-Voltage Grids
J2	10874	System Integration For Enhanced Network Planning And Operation With A Focus On Customer Interaction
J3	10966	Integration Of Flexibility Solutions In The Multi-year Planning Of Distribution Grids With Large Amounts Of
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J4	10967	Restructured Active Distribution Network Planning Considering Agents' Investment Budget Uncertainty

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G20	10346	SENS – Tool for Planning and Operation of Smart Distribution Networks
G21	10480	Assessment Of The Impact Of Future Electrification Scenario On An Urban Distribution Network
G22	10575	Decision Support Tool For The Development Of Power Distribution Networks Based On Al Planning
G23	10485	Techno-Economical Approach on Establishing Zero Down Time Area To Promote Premium Reliability in Super Priority Tourism Destination
G24	10506	New Approach into Material Supply Chain to Boost Industrial Capability
G25	10588	Increasing the Renewables' Hosting Capacity by Topology Optimization of Neighbouring Medium Voltage Grids
G26	10669	Integration of Environmental and Economical Impacts of Electricity Consumption in an Energy Community Based on Coalition Game.
H1	10593	A Novel DSO Approach In Proactively Upgrading The LV Distribution Network For Electrification Of Heat And Transport

H2	10636	Network Reconfiguration Under a Stochastic Optimisation Framework for Day-Ahead Operation Planning for Future Distribution Networks
Н3	10891	Polygonal Optimisation Of Topologies For LV Network Schematics
H4	11425	Distribution Planning Model Requirements for Smart Community Integration
H6	10976	A Surrogate Model of Distribution Networks to support Transmission Network Planning
H7	10984	SILVERSMITH - An Investigation Into Low Voltage Network Management
H8	11026	A Study of Mid to Long-term Distribution Planning Based on PV Installation Forecasting
Н9	11069	Large-Scale Grid Investment Strategy In Low-Voltage Networks
H10	11143	Study of Low-voltage Distribution Grid Connection Dimensioning Principles Considering Distributed Generation in Finland
H11	11162	Regionalised Approach to Heat Pump Allocations and its Impact On LV Network Reinforcement Requirements
H12	11329	Predicting Local Effects of Energy Transition Through Development of a Network Observation Tool
H13	11443	Enel Grid+: the Advanced Platform for Network Analysis and Planning
H14	11484	Efficiency Comparison of Programmed SAID in Investments in the Distribution System
H15	11491	Hosting Capacity Portal of All Voltages Levels
H16	11006	Hierarchical Large-Scale Distribution Grid Simulation Across Multiple Voltage Levels Using Smart Meter Data

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J5	10174	Hosting Capacity for Electric Vehicles in Urban Medium Voltage Grids with Different Building Structure and Charging Strategies
J6	10464	Probabilistic Evaluation of Plug-in Electric Vehicles Impacts on the Steady-State Performance of a Distribution Network in Stockholm
J7	10630	The Impacts Of Electric Vehicles And Photovoltaics On The Substations Of A Medium Sized Swedish City
J8	10698	Analysis of Stochastic Load Behaviors on Fast Charging Stations Operational Planning and Business Model
J9	10704	Discharge Depth Control as a Solution for the Economic Viability of Vehicle-to-Grid Technology
J10	10768	Minimizing The Impacts Of EV Chargers On The Power Grid Thanks To An Optimizing Tool
J11	10906	Impact of Electric vehicle charging on Italian LV distribution network
J12	10961	Selection of Representative Urban Low-Voltage Grids for Electric Vehicle Integration Studies
J13	11005	Challenges and Needs for High Power Combined Charging of Ferries and Electric Vehicles – A Norwegian Scenario Case Study
J14	11082	A Planning Toolkit to Evaluate Shore-side Infrastructure Requirements for Electrified Water-based Transportation
J15	11161	Impact of EV Regionalisation on Network Reinforcement Requirements
J16	11165	Integration of a Multi-megawatt Charging Station in the Medium Voltage Network
J17	11220	Load Scheduling and V2G to Minimize Power Demand – Exploring Potential for Airport Parking Facility, Norway.
J18	11266	Load Demand and Grid Integration of Electric Ferries: A Case Study in the Three Major Italian Lakes
J19	11428	Smart Charging of Electric Vehicles Based on Scheduling Theory
J20	11445	Coordinated Deployment Of Electric Taxi Minibuses To Enhance Solar Photovoltaic Hosting Capacity Of Residential Networks
J21	11493	Model for Determining the Charging Time of Electric Vehicles in Fast Charging Stations
J22	10379	Efficient Integration of Electric Vehicles Through Optimal Charging and Reactive Power Support
J23	10449	MWOA for Optimal Integration of Hybrid Renewable Resources into the Distribution Systems for Techno-Economic Benefits
J24	10721	The Use of Distributed Energy Resources to Mitigate the Negative Imbalance Between Bulk Purchase Versus Distribution Tariffs in South Africa
J25	11025	A New Optimization Method Brings Distribution Grids Performance To The Next Level Thanks To Digital Transformation

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H18	10295	Voltage Demand Relationship Modelling for Future Energy Scenarios	
H19	10327	Use Of Linky Smart Meter Data To Enhance The Diversity Factor Assessment In Real Networks	
H20	10453	Comparison of RMS and EMT Models of an Inverter-Based Generator with Fast-Frequency Response	
H21	10496	Data-driven Assessment of Aggregated EV Charging Potential for Flexibility Procurement	

H22	10517	Comprehensive Building Clustering as an Abstraction Method for Planning of Power Distribution Systems
H23	10651	Data Driven Photovoltaic Regionalization Approach for Distribution System Operator Supply Areas
H24	10737	Analysis Of The Renewable Energy Sources Generation Simultaneity In Croatia And The Impact On The Network Management
H25	10746	Validation of Gaussian Mixture LV Load Models using Measurements
H26	10765	Low Carbon Customers: Analysis of Loading of Domestic Electric Vehicle and Heat Pump Transformers in Ireland
H27	10790	The Impact of COVID-19 on Electricity Demand in Portugal
H28	10800	Autocalibration of a Bottom-up Methodology for Long Term Electricity Consumption Forecasting
H29	10821	Deployment Of Forecasting Tools In Diverse Demonstration Areas To Improve Energy Scheduling Of Microgrids
H30	10835	A Prediction Tool To Evaluate EV Charging Demand Based On Socio-Demographic Indicators
H31	11101	Post-Covid Customer Service Behavior Forecasting Using Machine Learning Techniques
H32	11183	Electric Vehicle Charging Measurements in the Nordic Environment – Charging Profile Dependence on Ambient Temperature
H33	11188	Forecasting For Electricity Grid Planning: Current Challenges And Future Improvements
H35	11241	Meteorological Benchmark Forecasts for Energy Management Systems
H36	11427	Support Vector Machine For Classification Of Households' Heating Type Using Load Curves
l1	11481	The Impact Of Forecasting Accuracy On The Economic Performance of Flexibility Provision

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J26	10107	Large Scale Detection Of Voltage Level Violations In LV-grids Using Smart Meters
J27	10209	Quasi-Dynamic Line Rating Spatial and Temporal Analysis for Network Planning
J28	10501	Evaluation Of Dynamic Active Distribution Network Equivalents With Grid Forming Converters In The Context Of System Stability Studies
J29	10520	Bridging The Gap From Geographical To Electrical Modeling
130	10827	Experiences With Ampacity Rating Calculations For Wind Farm Export Cable
J31	10382	Determining the Accuracy of Average Fault Rates in Assessing the Risks of Individual Circuits
J32	10846	FASIT, The Norwegian Reliability Data Collection System – Experiences And Utilitarian Values
J33	10873	Low-Voltage Topology Identification from Incomplete Smart Meters Data : Spain Experiment
J34	11305	Phase Identification using Smart Meter Data
J35	10371	Case-Based Probabilistic Load-Flow Calculation Considering The Correlative Interdependence Of Loads
J36	10397	Voltage Congestion Monitoring Through Machine Learning
K1	10348	Graph Computing Techniques for Power Flow Resolution Considering Real Distribution Networks
K2	10468	Power Grid Model: a High-Performance Distribution Grid Calculation Library
К3	10607	A Multiconductor Approach To Study Power Flows In Asymmetric And Unbalanced Electric Distribution Networks
< 4	11054	Hosting Capacity Using Real Time-Series for PV, EV, Load and Background Voltage
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L1	10836	Data-driven Techniques to Improve the Reliability of Low Voltage Electricity Networks Through Dynamical Evaluation of Non-technical Losses

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A21	10502	A Generic and Scalable Dynamic Model for Stationary Battery Energy Storage Systems
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M6	11504	Battery Energy Storage System with Second Life EV Batteries
M5	11045	Recent superconducting cable installation in Chicago paves the way for a Resilient Electric Grid (REG) system
M4	11059	Superconducting Systems, a New Tool for Railway Power Grids
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11433	Insight In The MV-grid With Low Effort Accurate RMU Retrofit Measurement To Accelerate Hosting Capacity And Energy Transition.
10120	Failure Prediction for Circuit Breakers: Vibration and Trip Coil Current Feature Extraction for Machine Learning Applications
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17	10529	Pilot Application of a Rule-Based TSO-DSO Coordination Concept in Switzerland
18	10532	Short-Circuit Currents Information Exchange Between DSO and TSO, an Approach From the Portuguese Demonstration of the OneNet Project
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В9	10665	A Practical Method for Improving Low Voltage Ride-Through Capability of Inverter-based AC Microgrid
B10	10131	Analysis of Harmonic Current Injections of Electric Vehicles
B11	10157	Harmonic and Supraharmonic Emissions of Fast Charging Infrastructure – Field Measurements in LV Grids
B12	10176	Minimization Strategies Of Harmonics in Microgrid Connected Wind-Driven PMSG

B13	10181	Advanced Techniques For Troubleshooting Solar Arrays And Generator Connections
B14	10196	Power Quality Impact on Light Intensity and Flicker Sensitivity of LED Lamps
B15	10200	Comparing Methods to Mitigate The Effect of Grid Voltage Sag And Frequency Variation on The Operation of Variable Speed Drives
B16	10229	Requirements For Grid Supporting Inverter In Relation With Frequency And Voltage Support
B17	11333	Planning And Operation Of An Intelligent Voltage Regulator For PQ Improvement In PV-Rich Power Distribution Systems
B18	10483	Analysis and Modelling of Temporary Overvoltage Events and Comparison with OVRT Requirements
B20	10538	Electric Vehicle Charging Stations and their Impact on Power Quality
B21	10556	Managing Distribution Network Stability with Penetration of Distributed Energy Resources
B22	10591	A Study on the Application of Power Electronics Technology in Secondary Substation to Improve Power Quality
B23	10617	A Case Study on the Introduction of Power Electronic Technology for Stabilization of Power System and Development of Phase Converter of Power Distribution System
B24	10659	Psophometric Indices Analysis for Waveform Distortion from Rolling Stocks in Electrified Traction Systems
B25	10742	A Four-Leg Converter Control Scheme for Current Imbalance Compensation in Microgrids
B26	10893	Modeling of Power Cables for Measurement Calibration and PLC Simulation up to 20 MHz
B27	10969	A Classification Of Grid Forming Converter Control And Its Application To Improve Power System Stability And Resilience
B28	11088	Supraharmonic In Low-Voltage Distribution Grids. Analysis Of the Specific Case Of The Interleaved Boost Converter
B29	11225	Impact of Changing Frequency Standards on Grid-connected PV and Battery Inverters in the German Low Voltage System
B30	11233	Accurate Power Control of Grid forming Power Converters for Improving Large-Signal Stability
B31	11464	Analysis of Transmission Line Modelling in the MATLAB/Simscape Software Package.
B32	11518	Dynamic Reactive Power Compensation For Improved Mining Production

B33	10121	Harmonics in the Transmission and Distribution Grid and their Relation to Geomagnetically Induced Currents
B34	10130	Case Studies of Estimation of Harmonics in partly monitored Residential Networks
B35	10142	Transfer of Supraharmonics through a MV/LV Transformer
B36	10179	Comparative Study of Unipolar and Bipolar Industrial DC Microgrids Through Linear Power Flow
C1	10202	The Impact of a Bi-directional V2G Electric Vehicle Charging Station to the Frequency Dependent Grid Impedance (10 – 150 kHz)
C2	10270	Continuous Non-invasive Resonance Detection in Residential Low-Voltage Networks
C3	10428	Impedance Characteristics at Socket Outlets in Residential and Commercial Buildings in the Frequency Range 2-150 kHz
C4	10431	Operation of Micro Sources and Impact of High Penetration on Low Voltage Distribution Grid
C5	10513	Harmonic Distortion in Microgrids in Islanded Operation
C6	10531	A Case Study on the Changes in Short Circuit Power to Analyze the Impact on Voltage Dips
C7	10587	Verification of Tool for Allocation of Harmonic Current Emissions Considering Frequency-Dependent Impedance
C8	10633	The Beat Phenomenon and Flicker Caused by the Difference in Switching Frequencies between Two Grid-connected Inverters
C9	10638	Modelling of Voltage Unbalance in Large Real Medium Voltage Distribution Networks
C10	10658	Survey of Harmonic Distortion Measurements from Customer Grid Supply in Trains
C11	10662	Large Scale Flexibility Requirements for Voltage Control in Low Voltage Distribution Network Analysis
C12	10674	Probabilistic Estimation of Harmonic Distortion in Non-Radial Distribution Network
C14	10703	Analysing Electric Vehicle Charging Power Quality in Large-Scale Charging Sites – A Data-Driven Approach
C15	10787	Frequency-Dependent Impedance Identification For Lvdc Pq Analysis
C16	10831	Analysing The Impact Of Operating Strategies Of Active Customers On Flicker And Voltage Unbalance
C17	11079	Modeling and Simulation of the Impact of a Fast Charging Infrastructure on Harmonic Disturbance Levels

C18	11081	Assessment of Harmonic Emission Level of Customer Installations Considering Actual Level of Cancellation
C19	11084	Analysis of the Propagation of Distortion in the Frequency Range 2–150 kHz using Iterative Harmonic Analysis
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C22	11166	A Study on VRE Grid Connection Code for LVDC System
C23	11186	Solar PV Battery Storage Estimation For Overvoltage Mitigation Using Measurement Data
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C25	11239	Determination Of Frequency-Dependent Impedances Of Large 110 kV Grids
C26	11353	Analysis of the Voltage Unbalance Phenomenon in a Three-phase Two-wire Distribution System
C27	11450	Investigation of Supraharmonic Emission from a Microgrid

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C30	10318	Explainable AI-based Intelligent Approaches for Power Quality Prediction in Distribution Networks Considering the Uncertainty of Renewable Energy
C31	10324	Deep Learning Graphical Tool Inspired by Correlation Matrix for Reporting Long-term Power Quality Data at Multiple Locations
C32	10367	Power Quality Benchmarking
C33	10374	Determining Faults Cause Based On Disturbance Records From PQ Monitors
C34	10417	Deep Learning for Power Quality with Special Reference to Unsupervised Learning
C35	10433	Power Quality Survey in Industrial Zones in Alexandria
C36	10493	Monitoring Voltage Quality in Sweden
D1	10525	System Strength Measurement, Testing and Validation
D2	10566	Innovative High-Power Exiting Inverter for Frequency Dependent Grid Impedance Measurements
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D4	10581	Evaluation of the Light-QP Measurement Method for Extended Measurements
D5	10618	Impact of Reserve Market Participation on Power Quality of Flexibility Resources and Local Electricity Networks
D7	10733	Harmonics Analysis for Distribution Systems of Urban Areas in Japan
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D10	10879	Supraharmonics Assessment: Methods Comparison Based on a Used Case in a Metalworking Shop
D11	10993	UK Grid Disturbances Measurements From 9 kHz To 150 kHz On A Low Carbon LV Network
D13	11087	Automated Load Control Detection Using Power Quality Data And Machine Learning
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D15	11269	Artificial Expansion of Power Quality Datasets using Generative Adversarial Networks
D16	11286	Applicability of IEC derived Voltage Unbalance limits in the US Power System: A case study
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D18	11334	New Approaches for Quantifying Impact of Power Quality Disturbances
D19	11360	Performance Evaluation of Instrument Transformers in Power Quality Measurements: Activities and Results from 19NRM05 IT4PQ Project
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F9	10254	Nation-wide Projection of Motivators and Consumer Willingness for Direct Load Control Demand Response in Finland
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F16	10421	Gamification an Innovative Approach to Reduce Electricity
F17	10487	Multi Objective Optimization Of Flexibilities In Ski-Resorts – CO2, Power Peaks, And Day-Ahead Market
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		Assessment and Visualisation of Extreme Weather Impacts and Climate Change Risks on Distribution Network		
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13	10625	Quantitative Approach of A Novel Disaster- Based Vulnerability Index in Distribution System By Utilizing Geographical Information System Study Case in Palu After Disaster
14	10844	Hierarchical Forecasting for the Management of Distribution Grids

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G2	10786	Resilience Services from Battery Storage Degradation
G3	10829	EV Charging Evaluation Using Real-world Datasets: A Case Study Of Energy Consumption, Peak Power, Self-consumption And Self-sufficiency
G4	10840	Flexible activation for grid purposes – Experiences from a Norwegian pilot
G5	10903	Smart Transformer as an Energy Community Service Node and Integrator of Local Resources
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G9	11051	Grid-Friendly Renewable Energy Communities Using Operating Envelopes Provided by DSOs
G10	11053	Environmental And Financial Impact Assessment Of Off-Grid Microgrids Using Energy Storage And PV
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17	10970	Developing An Electricity Network For Net Zero
18	10973	All Models Are Wrong, But Some Are Useful: An Exploration Of Validity And Confidence
19	10979	Solutions to Manage Local Flexibility Services for the Distribution Grid in the Energy Transition Scenario
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l17	11283	E-Redes' Asset Management Certification Involves All The Organization And Is Not a Myth
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124	10391	Relax Regulation and Market Frames to Increase Sector Coupling
125	10393	The UMEI – Universal Market Enabling Interface. Enabling Standard Interaction with Various Flexibility Markets to Procure Grid Services
126	10407	Design of an Auction-based Local Energy Market for Integrated Electricity and Heat Networks Coordinated with Wholesale Market
127	10411	Public Consultation Platform for Network Development Plan
128	10445	Regulatory Learnings from EU Funded Flexibility Projects. The i-DE Case: Preparing the Future DSO.
129	10465	Real-Time Pricing Tariffs for Flexible Energy Storage Systems Considering the Market and Grid Conditions
130	10495	An Assessment Of The GB Energy Market's Suitability For Delivering A Customer-Focused Net-Zero
131	10569	Privacy by Design in Local Electricity Markets: A Differentially Private Market Mechanism
132	10576	Volumetric Or Capacity-based Grid Tariffs: A Case Study For Residential Consumers In Flanders
133	10629	Reactive Power Flows From Mv To Hv Grids
134	10653	Business, Regulatory, and Technical Challenges for Integration of Network Aware Algorithms in Local Flexibility Markets
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J15	11135	From Ordinary Incentives Regulation To Sandboxes: A New Way To Enhance Continuity Of Supply
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