

# CIGRE Greece “e-session 2020” Technical Program

## 9:00-10:00 OPENING

### Panel: M. Champakis - K. Papailiou

CIGRE Greece Chairman welcome

- X1 Michel Augonnet CIGRE President Addressing Speech (tbd)
- X2 M. Manousakis IPTO (the Greek TSO) Chairman Addressing Speech
- X3 A. Manos HEDNO (the Greek DSO) CEO Addressing Speech
- O1 New structures in transmission and distribution grids to implement the “Clean Energy Package”  
J. Kabouris, G. Christoforidis, K. Petsinis, N. Athanasiadis, V. Ziogas, M. Champakis
- O2 Planning of the North-East Aegean and Dodecanese Islands Interconnections to the Continental Power System: Technical and Economic Assessment of Basic Interconnection Scenarios  
M. Karystianos, C. Pitas, S. Efstathiou, M. Tsili, J. Mantzaris, E. Leonidaki, E. Voumvoulakis, N. Sakellaridis
- O3 TSO/DSO Collaboration in Market Environment  
N. Hatziargyriou, D. Trakas, A. Dimeas, E. Leonidaki, M. Voumvoulakis, M. Champakis

## 10:00-11:00 A. SYSTEM PLANNING AND MARKET

### Panel: I. Kabouris - I. Margaris

- A1 Power adequacy solutions for Crete following its interconnection with the continental grid  
A. Papakonstantinou, G. Psarros, S. Papathanassiou, N. Boulaxis, J. Anagnostopoulos
- A2 Dynamic security and operation studies of Crete hybrid interconnection scheme with AC and DC links  
G. Tsourakis, B. Nomikos, M. Karystianos, J. Mantzaris, N. Sakellaridis
- A3 Converter station equipment specifications of Attica – Crete HVDC interconnection  
K. Leontaritis, A. Giotaki, S. Katemliadis
- A4 Balancing Market in the context of Target Model  
J. Kabouris, I. Skotinos
- A5 Long run electricity generation expansion planning under wide scale penetration of Renewable Energy Sources  
K. Tigas, C. Lambrou, G. Giannakidis, C. Nakos, P. Mandoulidis, A. Dimeas, E. Pirgioti, A. Alexandridis, J. Mantzaris
- A6 Evaluating the potential substitution of lignite with waste derived fuel (RDF/SRF) under the decarbonizing context of Hellenic Power Sector  
C. Psomopoulos, E. Kyriakis, K. Kalkanis, S. Kaminaris

## 11:00-12:00 B. SMART GRID AND DISTRIBUTED GENERATION APPLICATIONS

### Panel: C. Papadopoulos - S. Papathanassiou

- B1 Technical requirements for the connection of EV chargers to electrical installations  
E. Tasioulis, S. Papathanassiou
- B2 HPS Tilos: A template of distributed generation and energy storage - Experience and Perspective  
M. Apostolidis, Z. Mantas, A. Kouri, H. Kourelis, K. Kaousias
- B3 Implementation of smart autonomous micro-grid on remote isolated area - case study at Holy Great Monastery of Vatopedi  
E. Vaitsopoulos, Z. Koutsogiannis, I. Deftereos, V. Liapis, I. Manousaridis
- B4 The implementation of Regulation (EU) 631/2016 in planning of power systems with high-RES-penetration  
B. Nomikos, M. Tsili, N. Zouros, S. Souflis, G. Tsourakis, M. Ntoukas, M. Karystianos
- B5 Cybersecurity Analysis in Energy Control Centers  
V. Boutlas, C. Stamatakis, G. Korres, N. Manousakis
- B6 Enhancing Transmission Power System reliability through the activation of Distribution Network flexibilities  
M. Sousounis, P. Dratsas, C. Kaskouras, A. Bachoumis, C. Dikaiakos, G. Papaioannou

## 12:00-13:00 C. DISTRIBUTION NETWORK

### Panel: G. Georgantzis - N. Hatziargyriou

- C1 Enhancing the distribution system resilience under wildfire threat with mobile resources  
N. Hatziargyriou, D. Trakas
- C2 Urban distribution network reconfiguration and modernization for energy losses reduction  
A. Zafeirakis, E. Voumvoulakis, E. Leonidaki, A. Pateronis
- C3 Techno-economic assessment of the Net-Metering potential in University Campuses  
K. Pippi T. Papadopoulos, G. Barzegkar-Ntovom, G. Kryonidis
- C4 Intensified quality assurance tests on medium voltage composite insulators  
C. Kokalis, V. Kontargyri, I. Gonos, K. Papailiou, A. Anagnostou, M. Champakis
- C5 Diagnostic techniques for assessing the condition of composite insulators: The case study of transmission lines of Crete  
N. Mavrikakis, K. Siderakis, D. Pylarinos, I. Pellas, E. Thalassinakis
- C6 Achieving IT/OT Convergence at the Energy Sector  
L. Zaimis

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## 13:00-14:00 D. NEW TECHNOLOGIES AND APPLICATIONS IN POWER TRANSMISSION

Panel: K. Mavromatos - D. Michos

- D1 Field measurements for the investigation of harmonic interactions during the energisation of the first phase of the Cycladic islands' interconnection**  
A. Neris, A. Macos
- D2 The replacement/upgrade project of the outdoor terminations of the 400kV EHV cable system at Unit V of Keratea-Lavrion Power Station**  
G. Vakrinos, S. Tsioumas, A. Moutsakis, V. Floridis, G. Schroeder, K. Kostidis, P. Papageorgiou, C. Katzilieris, F. Fotopoulos
- D3 Assessing the inductive electromagnetic interference caused on a railway system by a nearby HVDC underground cable link**  
T. Papadopoulos, C. Charalambous, A. Dimitriou, C. Christodoulou, I. Gonos
- D4 Installation and real-time operation of smart power flow controller on the Greek Transmission System**  
A. Stratigakos, K. Krommydas, C. Dikaiakos, G. Papaioannou, M. Karystianos, I. Gonos
- D5 Application of smart on-line monitoring systems on autotransformers of the Greek Transmission System**  
S. Katemliadis, K. Leontaritis
- D6 A study on power transformer condition using transformer oil analysis at Mazoon Electricity Company**  
Ahmed Al-Qanubi
- D7 Natural esters as insulating oils. Current status and future trends and developments**  
I. Chronis, S. Kalogeropoulou, C. Psomopoulos
- D8 Review on sensing techniques for partial discharges detection in power transformers**  
D. Barkas, S. Kaminaris, N. Manousakis, A. Moronis, C. Psomopoulos

## 14:00-14:10 CLOSING

Panel: A. Koronidis - E. Koroniotakis - P. Kakavas