

INTERNATIONAL SUMMER SCHOOL TILOS-2018 (www.sealab.gr)

PROGRAM (Version 3)

| Friday 22-06-2018 | |
|----------------------------|---|
| Opening 9:00 | Arrival and Students' Welcome to Tilos |
| 9:30-10:15 | The Energy Supply Security Issues of Electrically Isolated Islands |
| 10:15-11:00 | Sizing of RES Systems – RES Penetration Limits in Non-Interconnected Islands. |
| 11:00-11:15 | <i>Break</i> |
| 11:15-12:00 | Sizing of RES-based Hybrid Power Systems (A) |
| 12:00-12:45 | Sizing of RES-based Hybrid Power Systems (B) |
| 12:45-13:30 | Exemplary Cases of RES-based Hybrid Solutions for Island Grids - Green Islands |
| Late Afternoon | <i>Site Visit to the Tilos Refugees' Camp (O.A. - 1)</i> |
| Evening | <i>Welcome Dinner (O.A. - 2)</i> |
| Saturday 23-06-2018 | |
| 8:30-9:15 | Analysis of the Kos-Kalymnos Electricity System. The Case of Tilos |
| 9:15-10:00 | Detailed Description of the Tilos Hybrid Power Station Infrastructure |
| 10:00-10:45 | Licensing – Legal Framework for RES-Based Hybrid Power Stations |
| 10:45-11:00 | <i>Break</i> |
| 11:00-13:30 | <i>Site Visit (1) to the Control Centre of the TILOS Hybrid Power Station</i> |
| 11:00-13:30 | <i>Site Visit (2) to the PV Park of the TILOS Hybrid Power Station</i> |
| 11:00-13:30 | <i>Site Visit (3) to the Wind Turbine of the TILOS Hybrid Power Station</i> |
| Monday 25-06-2018 | |
| 8:30-9:15 | Solutions to Address the Problems of Water Resources' Scarcity |
| 9:15-10:00 | Optimization of Energy Systems (Criteria / Parameters / Decision Variables) (A) |
| 10:00-10:45 | Optimization of Energy Systems (Criteria / Parameters / Decision Variables) (B) |
| 10:45-11:00 | <i>Break</i> |

| | |
|-----------------------------|--|
| 11:00-11:45 | Techno-Economic Feasibility Analysis of RES-based Hybrid Power Stations |
| 11:45-12:30 | Optimal Environmental Solutions on the Basis of RES-based Hybrid Stations. Social Acceptance of RES-based Hybrid Power Stations. |
| 12:30-14:15 | <i>Site Visit (4) to Installation(s) of Smart Meters</i> |
| Evening | <i>Summer School Dinner (O.A. - 3)</i> |
| Tuesday 26-06-2018 | |
| 8:30-9:15 | Smart Grids and Distributed Power Generation |
| 9:15-10:00 | Geothermal Energy and Biomass Exploitation on Island Grids |
| 10:30-15:30 | <i>Site Visit to the Geothermal Field of Nisyros Island (O.A. - 4)</i> |
| Wednesday 27-06-2018 | |
| 8:30-9:15 | RES Powered Electromobility in Non-Interconnected Islands (A) |
| 9:15-10:00 | RES Powered Electromobility in Non-Interconnected Islands (B) |
| 10:00-10:45 | Energy Systems Under the Net-Metering Compensation Mechanism |
| 10:45-11:00 | <i>Break</i> |
| 11:00-11:45 | Energy planning of sustainable islands (A) |
| 11:45-12:30 | Energy planning of sustainable islands (B) |
| 12:30-13:15 | Energy planning of sustainable islands (C) |
| Thursday 28-06-2018 | |
| 8:30-9:15 | Energy Storage (A) |
| 9:15-10:00 | Energy Storage (B) |
| 10:00-10:45 | Challenges in the Implementation of the TILOS Hybrid Power Station |
| 10:45-11:00 | <i>Break</i> |
| 11:00-11:45 | The New Tilos Electric Vehicle Charging Station: Steps to Implementation |
| 11:45-12:30 | Assessment of the TILOS Second Summer School Experience |
| 12:30-13:15 | <i>Site Visit (5) to the Tilos Electric Vehicle Charging Station</i> |

(*) All site visits will be carried out in cooperation with the TILOS project team.

O.A. Optional (non-mandatory) Activities