



UNIVERSITÀ DEGLI STUDI DI PALERMO



## INES Seminar in Palermo 21 & 22 May 2013

Università degli Studi di Palermo

Presidenza Facoltà di Ingegneria - 90128 Palermo (ITALY)

*Chaired by Prof. Giorgio Micale and Dr. Frank Neumann*

### 21/05: Technical approaches to energy recovery and input to the desalination process

- 09.00-09.30 Welcome and Registration
- 09.30-09.50 Opening: welcome word and meeting objectives.  
*Prof. Fabrizio Micari*, Head of the Faculty of Engineering, Università degli Studi di Palermo.  
*Prof. Carmelo Sunseri*, Head of the Department of Chemical, Management, Informatics, Mechanical Engineering, Università degli Studi di Palermo.  
*Prof. Giorgio Micale*, Local responsible of the REAPower project. Università degli Studi di Palermo
- 09.50-10.00 Brief introduction of INES network.  
*Dr. Frank Neumann*, Director of the Institute for Infrastructure environment and Innovation (IMI).
- 10.00-10.20 Hydroelectric energy by pressure retarded osmosis in coastal areas: the ELENOSCA project.  
*Professor Tullio Tucciarelli*, National coordinator of the ELENOSCA project, Università degli Studi di Palermo.
- 10.20-10.50 Developments of the 2MW PRO plant by Statkraft  
*Dr. Werner Kofod Nielsen* Senior Advisor. Statkraft
- 10.50-11.10 *Coffee Break*

Programme





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11.10-11.40 *SGP-RE energy production from seawater and brines: the REAPower project. Achievements and perspectives*  
*Prof. Giorgio Micale. Local responsible of the REAPower project Università degli Studi di Palermo*

11.40-12.10 Energy Recovery and Desalination.  
*Dr. Boris Lieberman. Vice President and Chief Technology Officer IDE.*

12.10-12.50 Salinity Gradient Power and Desalination Batteries.  
*Dr. Fabio La Mantia, Ruhr-Universität Bochum (Germany).*

### 12.50– 14.20 LUNCH BREAK

14.20-14.50 New electrode materials for the CAPMIX process.  
*Dr. Dorian Brogioli. Università degli Studi di Milano-Bicocca (Italy).*

14.50-15.20 Latest advances of most recent developments in salinity gradient research, brief tour of most recent developments in PRO and RED.  
*Professor Siria Alessandro. ILM—University of Lyon 1.*

15.20-15.40 *Coffee Break*

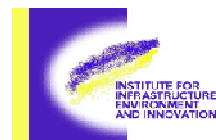
15.40-16.10 Integrated cycle for the production of fresh water, minerals and energy: The Trapani Experience  
*Dr. Andrea Cipollina, Università degli Studi di Palermo.*

16.10-16.40 Discussion on SGP and desalination integration. Question round about the project in Trapani.

16.40-17.10 Salinity Gradient Road-map and discussion, *Introduction by the Institute for Infrastructure, Environment, and Innovation (IMI).*

17.10–  
17.30 **Brief wrap-up conclusions and closure by the  
Chairs**

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### 22/05: Site visit to the REAPower pilot plant site in Trapani

- 08.30-08.45 Meeting at the parking area of the presidenza Facoltà di Ingegneria Viale Delle Scienze, Building number 7, 90128, Palermo.
- 10.00-12.00 Arrival to the desalination plant, brief introduction and site visit.  
*Introduction to the desalination plant with Mr. Carmelo Mineo, responsible of the MED-TVC desalination plant in Trapani.*
- 12.00-12.30 Visit to Mariastella saltworks, fully integrated with the MED desalination plant.
- 12.30-15.00 Informal Networking Lunch**
- 15.00-16.30 Return to the Palermo University Campus

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