




PV-RO by ITC in Tunisia.

## E-learning course on renewable energy driven desalination.



Promotion of  
Renewable Energy  
for Water production  
through Desalination

[www.prodes-project.org](http://www.prodes-project.org)

Intelligent Energy  Europe

**This course is part of the ProDes project, co-financed by the European Commission through the “Intelligent Energy for Europe” programme**

### INTRODUCTION

An e-learning course is offered over the internet as part of the training activities of the project. This on-line course focuses on the introduction of desalination by renewable energies resources, presented in ten chapters. This training initiative is addressed to people interested in this field of knowledge: professionals related with water or energy, technical students, major water users, water managers. This e-learning action will be based on an interactive and user-friendly philosophy; the purpose is that the on-line student is the main leader of his/her own training process. The course has also a flexible structure, allowing the students with high time restrictions to complete it with a minimum dedication of ten hours; on the other hand, the course will offer several complementary training options for the students with more time or specific interest.

## CONCEPT OF THE COURSE

- The course consists of 10 Chapters; each chapter is divided into 4 or 5 lessons.
- The estimated duration is two weeks, considering a minimum daily effort of 1hour, i.e., 1 chapter / day from Monday to Friday.
- Maximum number of students: 25 per group.
- Number of editions: 5
  - First Edition: March 1-14, 2010 ( 3 groups, 75 students)
  - Second Edition: April 5-18, 2010 ( 2 groups, 50 students)
  - Third Edition: May 3-16, 2010 ( 2 groups, 50 students)
  - Fourth Edition: May 31-June 13, 2010 ( 2 groups, 50 students)
  - Fifth Edition: June 28-July 11, 2010 ( 2 groups, 50 students)

## CHAPTERS:

1. Basic concepts on Desalination and Renewable Energies.
2. Desalination I. Membrane processes (EDR, RO).
3. Desalination II. Distillation Processes (MED, MSF, H/D, MD).
4. Solar thermal energy and MED.
5. Solar thermal energy coupled with H/D or MD.
6. Solar photovoltaic energy powered RO systems.
7. Wind energy powered RO systems.
8. Other technologies.
9. Non-technical aspects.
10. Practical case.

Further information and registration form available at [www.prodeslearning.com](http://www.prodeslearning.com)

