

# Training for Optimal Installation of Heat Pump Systems and Monitoring Devices

Radisson Blue Martinez  
Beirut, Lebanon  
19 - 20 March, 2019

Day 1: Tuesday, 19 March 2019	
09:00-09:30	Registration and Welcome Coffee
09:30-9:45	Opening Session
	<ul style="list-style-type: none"> <li>- Welcome Note by Mr. Rani AlAchkar, Director of Engineering and Planning at the Lebanese Center for Energy Conservation (LCEC)</li> <li>- Address of Mr. Emanuele D'Andrassi, Head of the Economic Office at the Embassy of Italy in Beirut</li> <li>- Introductory note by Dr. Rossano Scoccia, Adjunct Professor of Building Services Energy Modelling, REnewable heating and cooling Lab (RELab), Department of Energy, Politecnico di Milano (PoliMi)</li> </ul>
09:45-10:45	Session I: Heat pump technologies
09:45-10:15	- General Introduction on Heat pumps technologies by Dr. Rossano Scoccia, Adjunct Professor of Building Services Energy Modelling, RELab-PoliMi
10:15-10:45	- Potential of application in Lebanon by Dr. Sorina Mortada, Technical Consultant, LCEC
10:45-12:30	Session II: Best Practices –Part 1
	Heat pumps for Domestic Hot Water by Dr. Rossano Scoccia, Adjunct Professor of Building Services Energy Modelling, RELab-PoliMi
12:30-14:00	Lunch
14:00-15:30	Session III: Best Practices –Part 2
	Heat pumps for space heating and Domestic Hot Water by Dr. Rossano Scoccia, Adjunct Professor of Building Services Energy Modelling, RELab-PoliMi
15:30-15:45	Coffee Break
15:45-17:00	Session IV: Best Practices –Part 3
	Heat pumps energy performance assessment by Ms. Marica Fumagalli, Researcher, REnewable heating and cooling Lab (RELab), Department of Energy, Politecnico di Milano (PoliMi)

Day 2: Wednesday, 20 March 2019	
09:00-09:30	Registration and Welcome Coffee
09:30-12:30	Session I: Guidelines
09:30-10:30	- Guidelines for Optimal installation of Heat pump systems, by Ms. Marica Fumagalli, Researcher, RELab-PoliMi
10:30-12:30	- NEEREA Guidelines on Preparing Technical Proposals for Air-to-Water Heat Pumps applications by Ms. Ghada Rahhal, Energy Engineer, LCEC
12:30-14:00	Lunch
14:00-15:30	Session II: Description of measurement technologies and specific requirements for Heat pumps
	- Hardware needs and selection by Ms. Marica Fumagalli, Researcher, RELab-PoliMi
	- Data collection and post-processing by Ms. Marica Fumagalli, Researcher, RELab-PoliMi
15:30-15:45	Coffee Break
15:45-16:45	Session III: Best Practices on Monitoring devices
	- Monitoring devices selection, installation tips and requirements by Ms. Marica Fumagalli, Researcher, RELab-PoliMi
16:45-17:15	Session IV: The Italian experience in monitoring and testing
	- The ReLab project outcomes and lesson learnt by Ms. Marica Fumagalli, Researcher, RELab-PoliMi
17:15-17:30	Closing Notes