



7th Training Module

Vienna Case Study result workshops on district heating and cooling

@TU Wien

Vienna, Austria

16-24.02.2017

Project Coordinator:	Dr. Ursula Eicker HFT University of Applied Sciences - Stuttgart
Training Module Responsible Parties:	SIEMENS/ TUW-UEST (Lead Organising Institution)
Partners (full and associated):	HFT Stuttgart (GER), EDF/EIFER (GER), EPFL (CH), IES (UK), NOTT (UK), Canton of Geneva (CH), SIEMENS (GER), POLITO (IT), UCD (IRE), WIENE (AUS), AIT (AUS), TUW (AUS), City of Vienna (AUS)



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Contract no: 606851

Agenda

Thursday, 16th February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Urban Planning, Smart Buildings and Cities

Leader: IET

Time	Responsible	Topic
08:30-09:00		<i>Registration</i>
09:00-09:30	IET	Welcome and agenda review
09:30-11:15	IET	DI Alexander David: Concept and implementation of “plus-energy building” Lecture and tour
11:15-11:30		Coffee Break
11:30-12:30	IET	DI Kurt Mittringer: Lecture Urban Planning Tools and Methods Lecture
12:30 – 13:30		<i>Lunch</i>
13:30-14:15	IET	Prof. Thomas Bednar: Presentation of URBEM Doctoral Program Nils Schüler, Cajot: Presentation of CI-ENERGY Doctoral Program
14:15-15:45	IET	URBEM - CI-ENERGY Fellows Exchange
15:45 – 16:00		<i>Coffee Break</i>
16:00 - 17:30	IET	URBEM - CI-ENERGY Fellows Exchange
17:30 – 17:45	IET	Summary, Close of Day I

Friday, 17th February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Smart Cities, District Heating European Research Programs

Leader: IET

Time	Responsible	Topic
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9:00-10:00	IET	DI Siegfried Loicht: Horizon 2020 Energy: Calls and Application Experiences Lecture
10:00 – 10:15		<i>Coffee Break</i>
10:15-12:00	ESR/ER	Team Work
12:00 - 13:00		<i>Lunch</i>
13:00-14:15	IET	Julia Tollmann and Eva Pangerl: Monitoring of Smart City Vienna framework strategy Lecture and discussion
14:15-14:30		Coffee Break
14:30 – 16:00	SIEMENS	Prof. Runkler: Data Analytics: Classification Lecture
16:00-17:30	IET	Dr.Ing. Ralf Roman Schmidt: Low temperature district heating Lecture
17:30 - 17:45		Summary, Close of Day 2

Saturday, 18th February 2017, 10:00

Architectural City Walk: Becoming a Metropolis: From Historism to Modernism

Location: Vienna City Centre

Starting Point: TU Wien, Getreidemarkt 9, Building BA, Ground Floor, Lobby

Leaders: IET

Monday, 20th February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Project Management

Leader: IET

Time	Responsible	Topic
9:00-10:45	Birnstingl/ IET	Basic methods of project management: Definitions and overview Exchange of experiences Structure of the project management process
10:45-11:00		<i>Coffee Break</i>
11:00-12:30	Birnstingl/ IET	Applying of project management methods to a project-example: definition of project objectives, stakeholder-analysis
12:30-13:30		<i>Lunch</i>

13:30-15:00	Birnstingl/IET	Applying of project management methods to a project-example: project roles, project scope planning/work-breakdown-structure (WBS)
15:00-15:15		<i>Coffee Break</i>
15:15-17:00	Birnstingl/IET	Milestones-planning, project organisation, responsibilities and resource planning Reflexion and discussion of challenges
17:00-17:15		Summary, Close of Day 3

Tuesday, 21st February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Cinery Group Meeting + Energy network Management

Leader: IET

Time	Responsible	Topic
9:00-11:00	ESR/ER	Team Work
11:00-11:15		<i>Coffee Break</i>
11:00-13:00	ESR/ER	Team Work
13:00 – 14:00		<i>Lunch</i>
14:00 – 15:45	ESR/ER	Team Work
15:45 – 16:00		<i>Coffee Break</i>
16:00-17:00	IET	Prof. Reinhard Haas: How to Integrate Large Shares of Variable Renewables Into the Electricity System Lecture
17:00 – 17:15		Conclusions, Close of Day 4

Wednesday, 22nd February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Methodologies and Results

Leader: HTF

Time	Responsible	Topic
08:30-09:00		<i>Registration</i>
09:00 – 09:30	HFT	Management Briefing

09:30-10:15	Mario Potente Prieto	ESR 06 (TUW) <i>Simulation of district heating networks in combination with heat pump technology</i> (20 minutes) Question/ Answer session (25 minutes)
10:15 – 10:30		Coffee Break
10:30-11:15	Parag Wate	ESR 03 (HFT) <i>3D GIS for Urban Energy Demand Modelling</i> (20 minutes): Question/ Answer session (25 minutes)
11:15 – 12:00	Ana Sancho Tomás	ESR 11 (UNOTT) <i>On the electrical autonomy of urban districts: Demand Response of electrical devices</i> (20 minutes): Question/ Answer session (25 minutes)
12:00 – 13:00		Lunch
13:00-13:45	Pilar Monsalvete Álvarez-Uribarri	ESR 07 (HFT) <i>Physical modelling of energy systems at urban scale</i> (20 minutes): Question/ Answer session (25 minutes)
13:45-14:30	Giovanni Tardioli	ESR 05 (IES) <i>Prediction of building energy use in urban case studies using data driven approaches</i> (20 minutes): Question/ Answer session (25 minutes)
14:30-14:45		Coffee Break
14:45-15:30	Kunpeng Wang	ESR 02 (AIT) <i>Integration Platform For Urban Energy</i> (20 minutes) Question/ Answer session (25 minutes)
15:30-16:15	Nils Schüler	ESR 04 (EPFL) <i>Optimization of Urban Energy Systems bridging spatial scales</i> (20 minutes): Question/ Answer session (25 minutes)
16:15-17:00	Sebastien Cajot	ESR 01 (EDF/EIFER) <i>Urban energy system planning: a decision support methodology</i> (20minutes): Question/ Answer session (25 minutes)
17:00–17:15		Conclusions, Close of Day 5
19:30		<i>DINNER Restaurant Heuer am Karlsplatz, Treitlstraße 2, 1040 Wien</i>

Thursday, 23rd February 2017

Location: Getreidemarkt 9, Building BA, 2nd Floor, Room BA02A

Research Skills: Methodologies and Results

Leader: HTF

Time	Responsible	Topic
09:00 – 09:45	Solène Goy	ESR 10 (UCD) <i>Estimating Demand Response Potential in Building Clusters</i> (20 minutes) Question/ Answer session (25 minutes)
09:45-10:15	Preston Rodrigues	ER 1 (HFT) <i>Dynamic Building Simulation: A WebService Approach</i> (20 minutes) Question/ Answer session (25 minutes)
10:15 – 10:30		Coffee Break
10:30-11:15	Jean-Loup Robineau +	ER 2 (EPFL) + ER 3 (AIT) <i>Vienna Case Study + Geneva Status Report</i> 20 minutes) Question/ Answer session (20 minutes)

	Giorgio Aguiaro	
11:15-12:00	HFT	Outreach activities... preparations for next day...
12:00 – 13:00		Lunch
13:00-15:00	HFT	Outreach activities for last Module... Discussion about upcoming Geneva Module
	
17:00 - 17:15		Conclusions, Close of Day 6

Final Event Outreach Activity

Date: Friday, February 24th 2017

Place: Vienna Technical University,
Karlsplatz 13, 1040 Vienna
Boecklsaal (Main building, Stairs I, 1st Floor)

08.30-09.00	Registration	
09.00-09.15	Welcome speech and brief introduction <i>Cinergy Smart Cities with sustainable energy systems – Goals and achievements</i>	Ursula Eicker, Project Coordinator Hochschule für Technik Stuttgart
09.15-10.45	Introductory Talk 1 <i>Smarter Together – Exploitation of integrated data platforms for urban energy planning</i> Introductory Talk 2 <i>IntegrCity Multi-energy networks in cities – Efficiency improvement in urban energy supply infrastructures</i> Q&A Session	Stefan Geier, City of Vienna, Municipal department “Energy Planning” (MA20) Massimiliano Capezzali, Ecole Polytechnique Fédérale de Lausanne (EPFL)
10.45-11.00	Coffee Break	
11.00-12.30	Presentation of Ci-nergy Results by 4 groups of PhD Students <i>What questions did the PhD students assess? Which results did they achieve? What is the innovative, added value? How do the results support society?</i> Discussion & Quiz	<ul style="list-style-type: none"> • Energy Planning Methods • Demand Modelling Activities: from data driven to physical models • Urban Infrastructure Challenges and Modelling Approaches • CI-NERGY Simulation Platform and Orchestration Services

12.30-13.30	Panel discussion (moderated by Ursula Eicker) <i>Urban Energy & Sustainability – Digital Cities of the Future</i>	Massimiliano Capezzali (EPFL) Stefan Geier (MA20) Nikolas Neubert (AIT) Sebastian Wehrle (Wien Energie)
13.30-14.30	Networking & Finger Food	

Various Training Locations: Vienna, Austria

Date	Time	Location
Thursday 16. February 2017	9:00 – 17:45	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Friday 17. February 2017	9:00 – 17:45	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Monday 20. February 2017	9:00 – 17:15	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Tuesday 21. February 2017	9:00 – 17:15	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Wednesday 22. February 2017	9:00 – 17:15	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Thursday 23. February 2017	9:00 – 17:30	Getreidemarkt 9, Building BA, 2 nd Floor, Room BA02A
Friday 24. February 2017		Karlsplatz 13, TU Wien Main Building, Stair I, 1st Floor

Wifi access:

eduroam

tunetguest (unencrypted, no password needed)

conference wifi (personalized login data available upon registration)

Map of Meeting Locations:

<https://drive.google.com/open?id=1zhlw3GVyUAWQVNn18bUfnlplUoY&usp=sharing>

Transportation:

How to get to TU Wien:

https://www.tuwien.ac.at/en/contactsearch/visit_us_travelling_information/

Public Transport in Vienna:

<http://www.wienerlinien.at/eportal3/ep/tab.do/pageTypeld/66533>

<https://www.wien.info/en/travel-info/mobile/applications/public-transport>

Accommodation:

Reduced rates for TU Wien guests available at:

http://www.gut.tuwien.ac.at/fileadmin/t/gut/fotos/Veranstaltungsservice/Hotel_Kooperationen/Hotels_in_Wien_ENG.pdf