Program 2nd eseia Conference on Smart and Green Transitions in Cities and Regions

eseia european sustainable energy innovation alliance

TU Graz

Monday, 4th April

12.00 **Lunch Break and Registration**

13.00

Opening Ceremony Addresses
Ingolf Schädler - Deputy Director General for Innovation / Ministry of Transport, Innovation and Technology
Jörg Leichtfried - Federal State Minister
Siegfried Nagl - Mayor of the City of Graz
Harald Kainz - TU Graz Rector & eseia President
Room i3

13.45

Urban and Regional Transition -
New Scales, Missing Decision Mechanisms?
Key note speaker: *Reimar Molitor, Director Region Cologne-Bonn*
Room i3

14.15 **Coffee Break**

14.45

1A: Mobility Patterns in Smart Cities Room i3

Innovative Transport Concept Through Combined Mobility Based on Multimodal Nodes in the Area of Graz
Kohla, Fabian, Just-Moczygemba

The Empirical Investigation on the Relationship between Mixed-Use Development and Travel Distances in Tainan Metropolitan Area, Taiwan
Lee Ting-Yi, Lee Tzu-Chang

Comparative Study on Asian Megacity`s Road Network Topology
Zining Li, Hanliang Lin

Investigating Passenger Car and Powered Two-Wheeler Usage in Urban Areas: a Case of Tainan, Taiwan
Poyu Lee, Tzu-Chang Lee

1B: Governance for Transition Room i4

Institutional and Governance Arrangements for Smart Grid Implementation
Lammers, Arentsen

The Value of Stakeholder Collaboration in Brown-field Revitalisation Analysed with Game Theory
Dolinsky, Horniacek, Molnair, Ruzicka

Energy Citizenship and Public Engagement in Energy System Transformations: Reflections on an Emergent Concept
Mullally, Dunphy, McCarthy, Harris, Connolly, Lennon, O' Connor, Gaffney

Governance of Heat Grids. Towards a Governance Typology for Smart Heat
Sanders, Heldeweg, Brunnekreef

Coffee Break

16.45

17.00

eseia General Assembly
Chair: *Harald Kainz (eseia President)*
Room i6

Walk through the old city of Graz (optional)

19.00 **Evening Reception at the Rathaus invited by the city of Graz**

Tuesday, 5th April

8.30 Coffee and Registration

9.00 **Urban Energy Systems Demonstrated at "Reininghausgründe" in Graz**
Key Note: *Schnitzer, Narodoslawsky, TU Graz* — Room i3

ener2i Synergy Workshop — Room i5

9.30

2A: Evaluating Mobility Transition — Room i3

- Evaluation of Various Means of Transport for Urban Areas. *Brunner, Hirschberg, Hirz, Fallast*
- Evaluating the perception of users in shared space containing pedestrians, cyclists, motorcyclists and motorists *Tzu-Chiao Hsu, Tzu-Chang Lee*

2B: Urban Energy Transition — Room i4

- The Planning and Delivery of a Sustainable Brownfield Urban Regeneration Project at Grangegorman, Dublin. *Prendergast, Horan*
- Energy Planning for Existing City Quarters *Maier*

10.30 Coffee Break

11.00

3A: Smart Mixed Mobility

- The Characteristics of Cyclist-Pedestrian Mixed Flow on Shared Paths. *Po-Jui Chen, Lee*
- Power quality and test-set-up design for energy feedback in urban metro lines *Zhang, Fickert*

3B: Drivers for Transition

- Smart cities as a driver for sustainable development. *Obinna, Joore*
- Community energy groups in Ireland and their role in national energy transition *Watson, Mullally, O Gallachoir*

ener2i Synergy Workshop *continued* — Room i5

12.00 Lunch Break

13.00 **Smart City Labs For the Transition Towards Liveable Cities**
Key Note: *Jester, Joore, Hammerl* — Room i3

13.30

4A: Innovative approachess for smart urban transition — Room i3

- From Planning to Smart Management in Multi-Functional Brownfield Regeneration *Finka, Jamecny, Ondrejicka*
- Innovative offices for smarter cities *Krozer*
- Optimisation of energy supply in public buildings: the case of a primary school in the city of Koprivnica *Bartolec, Dominikovic, Cosic, Duic*
- Designing Sustainable Bio-Diesel Transportation by P-graph Method *Baumgartner, Süle, Bertok*

4B: SMACC — Room i6

SMACC Workshop
Smart City Coaching for creating Smart City Labs
Crul, Obinna

4C: Technology for transition — Room i4

- Effect of operational conditions on hydrothermal liquefaction of algal biomass produced in high rate algal ponds for wastewater treatment *De Aguiar do Couto, Varela, Pinto, Reis, Costa, Calijuri*
- Replication model for planning, development and integration of smart district heating systems in smart energy systems. *Doracic, Mathiesen, Krajacic, Duic*
- Efficiency of environmental friendly local materials application for thermal insulation of individual houses: numerical and experimental studies *Kresova, Kundas, Kuzhelko, Suprinovich*
- Economically viable utilisation of biomass for energy conversion by applying the bio-refinery concept: the case of Croatia. *Cosic, Narodoslawsky, Duic*
- Application of the bio-refinery concept in sugar industry. *Sutalo, Cosic, Duic*

15.45 Coffee Break

16.00

BET for Smart Urban and Regional Transition Moderator: *Michael Narodoslawsky*

SMACC Workshop Cont'd

17.00

ener2i EU Brokerage Event
Moderator: *Catherine Bilger (eseia)*

BET Buying-in Event
Moderator: *Brigitte Hasewend (eseia)*

Public Event Foyer

19.00 Dinner at University Aula, TU Graz (Rechbauerstrasse 12)

Wednesday, 6th April

8.30 **Coffee and Registration**

9.00

6A: Smart Energy Systems Optimisation — Room i3	6B: Smart Urban Water Systems — Room i4
Energy Storage Capacity Optimization for Residential Areas. *Bartos, Bertok*	Water Re-use – Feasible Solutions for Sustainable Metropolitan Regions *Duta, Visa, Visa*
Integrated and sustainable energy concepts for urban neighbourhoods – A generic approach based on Austrian experiences *Hofer, Amann, Bachner*	Energy from Waste Water – A Hidden Urban Resource *Kollmann*
Optimal Workforce Management for Smart Infrastructures with Minimal Environmental Impact *Szili, Frits, Bertók*	Solar Disinfection of Drinking Water Using Sand as a UV Light Amplifier *Haddad, Hindiyeh, Lahham, Hasan*
Design, Development and Management of Renewable-based Energy Mixes in Sustainable Metropolitan Regions *Visa, Duta*	The "smart city quarter" demonstration project in Lübeck-Flintenbreite for innovative wastewater and waste collection *Deegener, Otterpohl, Körner*
Balanced renewable Energy scenarios: How to go for spatial decisions without decent data, shown on the case study of the Vorderland region, Vorarlberg. Dumke, Nabielek	Optimizing urban hot, cold, and electric energy supply to satisfy stochastic demands ***Konig, Bertok***

11.15 **Coffee Break**

11:30 CESEPS Co-evolution of Smart Energy Products and Services for Sustainable Urbanisation
Keynote: Lothar Fickert — Room i3

12.00 **Plenum Discussion and Summary** — Room i3

12.30 **Lunch and end of the conference**

Please register (also presenters) under:
http://www.tugraz.at/events/eseia/registration/

Venue
TU Graz Campus Inffeld
Inffeldgasse 25D
8010 Graz

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