

1st COST Action TU1401 Training School 2016 Renewable energy and landscape quality

The training school investigated relationships between renewable energy production and landscape quality, and the role of public participation for the acceptance of renewable energy systems. Participants explored how experts and the general public communicate and perceive renewable energy facilities in the landscape and familiarized themselves with visual impact assessments, landscape

Quick facts

- Venue: Dublin, Ireland
- **Date:** from 22nd to 26th May 2015
- Host: Dublin Institute of Technology, School of Transport Engineering, Environment and Planning
- Number of participants: 20



character assessments and techniques, thus improving:

- Environmental and landscape literacy, awareness and methodological competences
- International overview and critical perspectives on a diverse set of visual impact assessment methods
- Transferable skills to work in interdisciplinary and trans-boundary contexts
- Mediation, consensus-building and networking skills

- Number of trainers: 5
- Countries represented: BE, CH, CZ, DE, EL, ES, UK, IS, PL, PT, SL, RS
- **Contents:** visual impact assessment, landscape character assessment, communities and planning, communication and perception of renewable energy in landscape

Before the training school Applications gathering and preparatory material distribution	Day 2 Field excursion in Co. Wicklow to wind farm sites and a community meeting	Days 3-4 Group work in five workshops mentored by trainers	Day 5 Open public presentations of results by workshop groups	After the training school Conference presentations and publications of results
---	---	---	---	---

Workshop 1

Effect of wind farm design on acceptance Michael Roth, Nürtingen-Geislingen University

Number and layout of wind farms have been found to affect social and individual acceptance, but there is a lack of perspectives from landscape and engineering experts.

A set of photo simulations was shown to participants to rate. Rating of photos by experts revealed that distance and angle of view had an effect on acceptance, while parity of wind turbines did not.

Workshop 2

Best focal length to represent a landscape view James F. Palmer, Scenic Quality Associates

Standard practice of visual assessments employs the use of single frame photographs. Fundamental questions, such as most appropriate focal length to use have not been adequately researched.

Participants evaluated how well the photos taken at different focal lengths represent the actual landscape in terms of its context. Focal length slightly over 50mm was preferred.

Workshop 3

Role expectations in stakeholder discussions Ken Boyle, Dublin Institute of Technology

In stakeholder discussions multiple interests and individual subjectivities face each other. What is the role of experts in these processes?

A focus group of various experts most often mentioned their role was knowledge-broker and a mediator, but without a real consensus. Experts were split halfway on how they are perceived by other stakeholders (positive or negative).

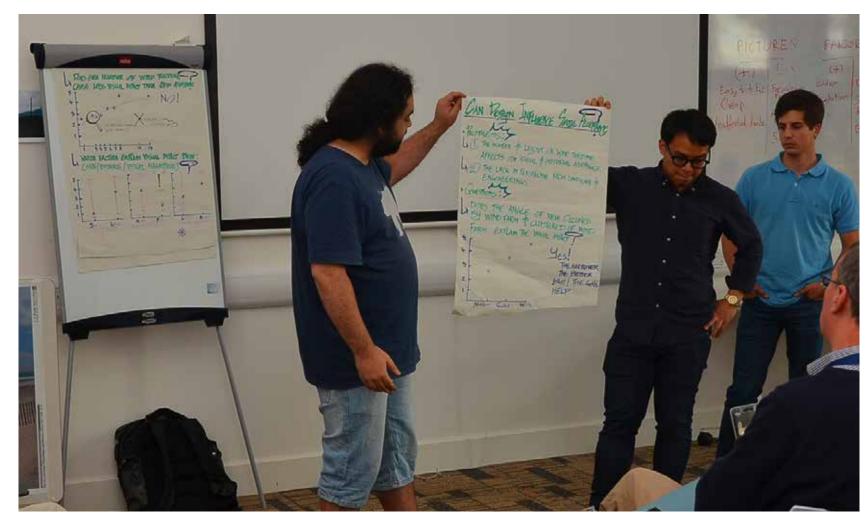


Figure 1: Group presenting workshop findings (photo: Michael Roth)

Workshop 4 Effective use of Visual-Acoustic Simulations Ulrike Wissen Hayek, PLUS, ETH Zurich

How can visual-acoustic simulations be used to explore energy landscapes beyond simple valuation?

Participants placed activities in a simulated landscape. After adding windmills, the exercise was repeated. Most affected were passive activities (yoga, meditation), least affected were active activities (e.g. football, cycling, picnic, cross-fit).



Figure 2: Evaluating best focal length (photo: Michael Roth)



Figure 3: Discussion with local community (photo: Michael Roth)

Workshop 5 Single image representation of landscape Pat Brereton, Dublin City University

According to the European landscape convention, landscape is the consequence of each person's perception. Is then a single image representation of landscape a valid method?

Employing participant-generated photography, three different distinct views of the same landscape was found, suggesting single photo representation may be problematic.

A common exercise

Q-sort: participants' attitudes towards renewables Vincent Vanderheyden, University of Liege

Coming from various backgrounds it is questionable whose attitudes are similar and in what way. Using Q-sort participants were grouped based on similarity of ranking ten statements about wind energy.

Three groups, all exhibiting pro-wind attitudes were found. However, differences on the importance and role of wind energy in scientific communities show diversity and should not be neglected.

Decisions around wind

Debates around wind farms,





Figure 4: Placing activities in a landscape (photo: Michael Roth)



Figure 5: Choosing most representative photos (photo: Marija Lalosevic)

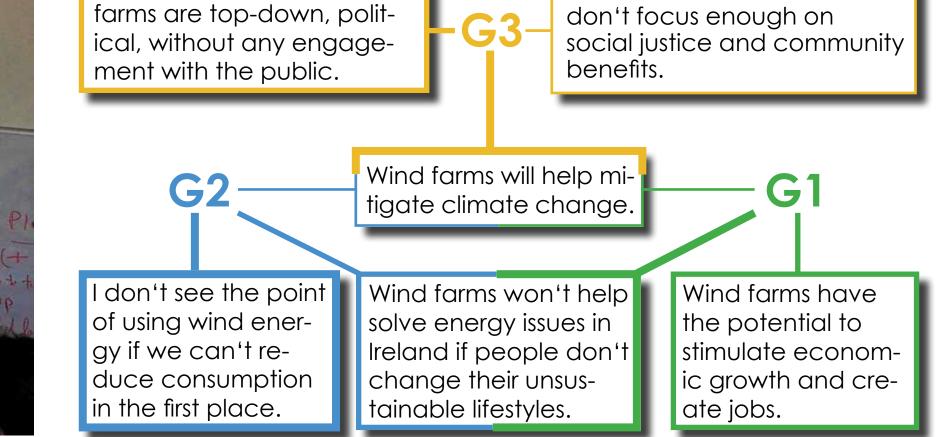


Figure 6: Statements by groups. Line weight means level of agreement.



Contact

Action Chair:

Prof. Dr. Michael Roth Nürtingen-Geislingen University - School of Landscape Architecture, Environmental and Urban Planning Schelmenwasen 4-8 michael.roth@hfwu.de 72622 Nürtingen, Germany Phone: +49 7022/201-181

Website: http://www.cost-rely.eu

Action Vice Chair: Dr. Sebastian Eiter, NIBIO - Norwegian Institute of Bioeconomy Research, see@nibio.no

WG 1

Chair: Dr. Marina Frolova, University of Granada, Spain - mfrolova@ugr.es

Co-Chair: Csaba Centeri, Szent Istvan University, Hungary - centeri.csaba@mkk.szie.hu

WG 2

Chair: Dr. Dan Van der Horst, University of Edinburgh, United Kingdom - dan.vanderhorst@ed.ac.uk
Co-Chair: Bohumil Frantal, Academy of Sciences of the Czech Republic, Czech Republic - frantal@geonika.cz

STSM Coordinator: Prof. Dr. Serge Schmitz, University of Liege, Belgium, s.schmitz@ulg.ac.be

WG 3

Chair: Dr. Matthias Buchecker, Swiss Federal Research Institute WSL - matthias.buchecker@wsl.chCo-Chair: Dina Stober, University of Josip Juraj Strossmayer Osijek, Croatia - dstober@gfos.hr

WG 4

Chair: Dr. Alexandra Kruse, Institute for Research on European Agricultural Landscapes, France - kruse@eucalandnetwork.eu

Co-Chair: Dr. Isidora Karan, Research Center for Space, Bosnia and Herzegovina - isidora_karan@yahoo.com

About COST

COST is the longest-running European framework supporting transnational cooperation among researchers, engineers and scholars across Europe. It is a unique means to jointly develop own ideas and new initiatives across all fields in science and technology, including social science and humanities, through pan-European networking of nationally funded research activities. Based on a European intergovernmental framework for cooperation in science and technology, COST has been contributing - since its creation in 1971 - to closing the gap between science, policy makers and society throughout Europe and beyond.



COST is supported by the EU framework Programme Horizon 2020