EKLIPSE

Knowledge & Learning Mechanism
on Biodiversity & Ecosystem Services

Developing a mechanism
for supporting better
decisions on our
environment
based on the best
available knowledge.

Draft Programme: EKLIPSE Workshop on the impacts of EU renewable energy policies on global biodiversity and the targets of the UN Sustainable Development Goals, 19-20 Nov 2018, Brussels

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Date and location: 19-20 November 2018 (two half-days), at the Brussels Office of the Helmholtz Association, Brussels

Organising committee: Dr Miriam Grace (University of East Anglia/EKLIPSE), Dr Marianne Darbi and Dr Alexis Meletiou (UFZ Helmholtz Centre for Environmental Research/EKLIPSE), Dr Henri Rueff and Ms. Myriam Pham-Truffert (Centre for Development and Environment (CDE), University of Bern)

Aims of the workshop

The workshop will bring together experts and practitioners to produce a conceptual model to inform the 2019 UN Global Sustainable Development Report, drawing on expert participants' understanding of the pathways through which European Union's renewable energy policies and technologies affect local and overseas biodiversity and sustainable development. Participants will be guided to structure the model components and their interactions in a graphical form using a Fuzzy Cognitive Mapping approach (FCM).

The workshop seeks a better understanding of the telecoupling effects of the EU's low-carbon energy policy on biodiversity and ecosystem services in countries globally, from an SDG perspective, through two questions:

1-   What are the SDG targets affected by EU energy policy and what are the systemic trade-offs and co-benefits created beyond the territorial boundaries?

2-   What policies and governance mechanisms could improve these impacts?

The individual participants will be guided to identify key terms (concepts) relating to the renewable energy policies, technologies and their impacts, followed by the linkages between each of them. This information will be used to construct a conceptual model diagram. The linkages will be coded using a scoring system based on FCM, assigning each linkage a score between -3 and 3, building on the methodology developed by the International Council for Science (ICSU Scoring scale, see Griggs et al. 2017 below). This allows an assessment of the type of effect (positive or negative) and its strength. A discussion session will allow participants to develop their knowledge and refine their models. The individual diagrams will be compiled into the final model diagram, which will inform the 2019 UN Global Sustainable Development Report.

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Schedule

Monday 19 November – Day 1

12:00-12:30	Light Lunch	
12:30-13:15	Welcome and Introduction	Setting the scene for the workshop: context and aim of the workshop, conceptual scope and practical details, tour de table of participants
13:15-14:45	EU Energy Policy Context	Presentations and plenary discussion: highlighting core Energy Roadmap 2050 and related EU Directives, as well as relevant renewable energy technologies and potential impacts on biodiversity and SDGs
14:45-15:00	Methodological approach	Methodological approach: presenting the Fuzzy Cognitive Mapping approach and the ICSU scoring scale
15:00-15:30	Coffee	
15:30-18:00	Model drafting	The participants will be guided to identify key terms and linkages, before using these to produce individual/group model diagrams using Mental Modeler
18:00	Closure Day 1	Short wrap-up from Day 1 and outlook to tasks for Day 2

Tuesday 20 November – Day 2

9:00-10:30	Discussion and revision	Group discussion session and opportunity to revise individual models
10:30-11:00	Coffee	
11:00-12:30	Discussion and revision	Continued group discussion session and opportunity to revise individual/group models
12:30-13:00	Wrap-up presentation	Short presentation outlining the findings of the day and next steps
13:00-14:00	Lunch & Drinks	

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Practical details

Please bring laptops with you so that you can use the Mental Modeler software during the workshop (http://www.mentalmodeler.com/). The organisers will guide you in the use of this software to construct your models.

Venue

The Brussels Office of the Helmholtz Association is located at:

> Brussels Office
>
> Helmholtz Association
>
> Rue du Trône 98
>
> 1050 Brussels
>
> Belgium

Contact information:

> +32 2 5000 970
>
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For more information, including a map and access details, please visit the website of the Helmholtz office at https://www.helmholtz.de/en/about_us/the_association/international_offices/brussels_office/directions/.

Travel and accomodation

Please arrange for your travel and accommodation. We will be able to support attendance expenses for a number of participants up to a maximum of 500 Euros per person. Please let us know if you require travel funding.

Contact and registration

Please state your interest in participating by November, 12th by emailing to secretariat@eklipse-mechanism.eu).

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Further reading

Gray, S. A., Gray, S., Cox, L. J., & Henly-Shepard, S. (2013, January). Mental modeler: a fuzzy-logic cognitive mapping modeling tool for adaptive environmental management. In System Sciences (HICSS), 2013 46th Hawaii International Conference on (pp. 965-973). IEEE.

Gray, S. A., S. Gray, J. L. De Kok, A. E. R. Helfgott, B. O'Dwyer, R. Jordan, and A. Nyaki. 2015. Using fuzzy cognitive mapping as a participatory approach to analyze change, preferred states, and perceived resilience of social-ecological systems. Ecology and Society 20(2): 11. http://dx.doi.org/10.5751/ES-07396-200211

Griggs, D. J., et al. *A guide to SDG interactions: from science to implementation*. International Council for Science, Paris, 2017. (https://council.science/publications/a-guide-to-sdg-interactions-from-science-to-implementation)

Hastik, R. et al. 2015. Renewable energies and ecosystem service impacts. Renewable and Sustainable energy Revies 48: 608-623

Hodgkinson, G. P., Maule, A. J., & Bown, N. J. (2004). Causal cognitive mapping in the organizational strategy field: A comparison of alternative elicitation procedures. Organizational Research Methods, 7(1), 3-26.

Jetter, A. J., & Kok, K. (2014). Fuzzy Cognitive Maps for futures studies—A methodological assessment of concepts and methods. Futures, 61, 45-57.

McCollum, D. L., Echeverri, L. G., Busch, S., Pachauri, S., Parkinson, S., Rogelj, J., ... & Riahi, K. (2018). Connecting the sustainable development goals by their energy inter-linkages. Environmental Research Letters, 13(3), 033006.

Özesmi, U., & Özesmi, S. L. (2004). Ecological models based on people's knowledge: a multi-step fuzzy cognitive mapping approach. Ecological modelling, 176(1-2), 43-64.

Smithin, T. (1980). Maps of the mind: new pathways to decision-making. Business Horizons, 23(6), 24-28.

Further information on EKLIPSE

EKLIPSE is developing a European Mechanism to answer requests from policy makers and other societal actors on biodiversity related issues.

More information on the processes and the EKLIPSE project funded by the EU in H2020 is available at www.eklipse-mechanism.eu.