Dear colleagues

We kindly ask you to contribute to our COST RELY project (http://cost-rely.eu/), particularly to the objectives of Working Group 2. One of the WG2 objectives is to assess landscape functions and types according to their vulnerability to (or compatibility with) specific renewable energy production systems. We would like to use your knowledge and expertise in this field. Please, fill in this questionnaire (´assessment matrix´) which is to assess the level of compatibility of specific landscape functions and landscape (land cover) types with specific renewable energy systems. Your participation in the survey is anonymous, the results will be used exclusively for the purposes of our project exclusively, and only general outputs will be published.

Thank You for your cooperation!   **Dr. Bohumil Frantál** (WG2 vice-chair)

QUESTIONNAIRE

Assessment of compatibility of specific landscape functions and types with specific renewable energy production systems

Your country of origin: …………………………..

Professional specialization (e.g., geography, ecology, architecture, engineering…): ………………………………………

Please, rate each specific type of landscape function and type (land cover) on a scale (of 1 to 5) according to their compatibility with regard to specific renewable energy production system.

Scale of compatibility	
1 = Completely compatible	0 = Not relevant
2 = Rather compatible	9 = I don´t know/can´t judge
3 = Neutral	
4 = Rather conflicting	
5 = Absolutely conflicting	

			Renewable energy production systems										
			11	12	21	31	32	41	42	45	51	61	62
Landscape functions			Large wind power on-shore	Large wind power off-shore	Marine energy	Small and micro hydropower	Large hydropower	Large solar PV ground-mounted	Large solar PV on-roof	Solar thermoelectric	Large geothermal	Biomass production	Biogas stations (AD plants)
Landscape functions	1. Regulation functions	1.1 Climate regulation											
		1.2 Natural hazards reduction											
		1.3 Water supply and regulation											
		1.4 Soil formation and retention											
	2. Habitat functions	2.1 Living space for plants and animals											
		2.2 Living space for humans											
	3. Production functions	3.1 Food production (agriculture & aquaculture)											
		3.2 Natural resources processing (industry, manufac.)											
		3.3 Energy conversion											
		3.4 Transportation											
		3.5 Waste treatment and disposal											
	4. Cultural functions	4.1 Science (nature and biodiversity protection)											
		4.2 Aesthetic (visual attractiveness)											
		4.3 Historical and cultural values											
		4.4 Tourism & recreation											

Landscape type — **Renewable energy production systems**

Code column legend:
- 11: Large wind power on-shore
- 12: Large wind power off-shore
- 21: Marine energy
- 31: Small and micro hydropower
- 32: Large hydropower
- 41: Large solar PV ground-mounted
- 42: Large solar PV on-roof
- 45: Solar thermoelectric
- 51: Large geothermal
- 61: Biomass production
- 62: Biogas stations (AD plants)

Level 1	Level 2	Level 3 (CORINE nomenclature)	11	12	21	31	32	41	42	45	51	61	62
1. Artificial surfaces	1.1. Urban fabric	1.1.1. Continuous urban fabric		0	0								
		1.1.2. Discontinuous urban fabric		0	0								
	1.2. Industrial, commercial and transport units	1.2.1. Industrial or commercial units		0	0								
		1.2.2. Road and rail networks and associated land		0	0								
		1.2.3. Port areas		0	0								
		1.2.4. Airports		0	0								
	1.3. Mine, dump and construction sites	1.3.1. Mineral extraction sites		0	0								
		1.3.2. Dump sites		0	0								
		1.3.3. Construction sites		0	0								
	1.4. Artificial non-agriculture vegetated	1.4.1. Green urban areas		0	0								
		1.4.2. Sport and leisure facilities		0	0								
2. Agricultural areas	2.1. Arable land	2.1.1. Non-irrigated arable land		0	0								
		2.1.2. Permanently irrigated land		0	0								
		2.1.3. Rice fields		0	0								
	2.2. Permannet crops	2.2.1. Vineyards		0	0								
		2.2.2. Fruit trees and berry plantations		0	0								
		2.2.3. Olive groves		0	0								
	2.3. Pastures	2.3.1. Pastures		0	0								
	2.4. Heterogeneous agricultural areas	2.4.1. Annual crops associated with permanent crops		0	0								
		2.4.2. Complex cultivation patterns		0	0								
		2.4.3. Land principally occupied by agriculture, with significant areas of natural vegetation		0	0								
		2.4.4. Agro-forestry areas		0	0								
3. Forests and semi-natural forests	3.1. Forests	3.1.1. Broad-leaved forest		0	0								
		3.1.2. Coniferous forest		0	0								
		3.1.3. Mixed forest		0	0								
	3.2. Shrub and/or herbaceous vegetation association	3.2.1. Natural grassland		0	0								
		3.2.2. Moors and heathland		0	0								
		3.2.3. Sclerophyllous vegetation		0	0								
		3.2.4. Transitional woodland shrub		0	0								
	3.3. Open spaces with little or no vegetation	3.3.1. Beaches, dunes, and sand plains		0	0								
		3.3.2. Bare rock		0	0								
		3.3.3. Sparsely vegetated areas		0	0								
		3.3.4. Burnt areas		0	0								
		3.3.5. Glaciers and perpetual snow		0	0								
4. Wetlands	4.1. Inland wetlands	4.1.1. Inland marshes		0	0								
		4.1.2. Peat bogs		0	0								
	4.2. Coastal wetlands	4.2.1. Salt marshes		0	0								
		4.2.2. Salines		0	0								
		4.2.3. Intertidal flats			0	0							
5. Water bodies	5.1. Continental waters	5.1.1. Water courses	0			0	0	0	0	0	0	0	0
		5.1.2. Water bodies	0			0	0	0	0	0	0	0	0
	5.2. Marine waters	5.2.1. Coastal lagoons	0			0	0	0	0	0	0	0	0
		5.2.2. Estuaries	0			0	0	0	0	0	0	0	0
		5.2.3 Sea and ocean	0			0	0	0	0	0	0	0	0