

#### Migratory species and renewable energy

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Partnership for nature and people

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#### BirdLife? Migratory species?













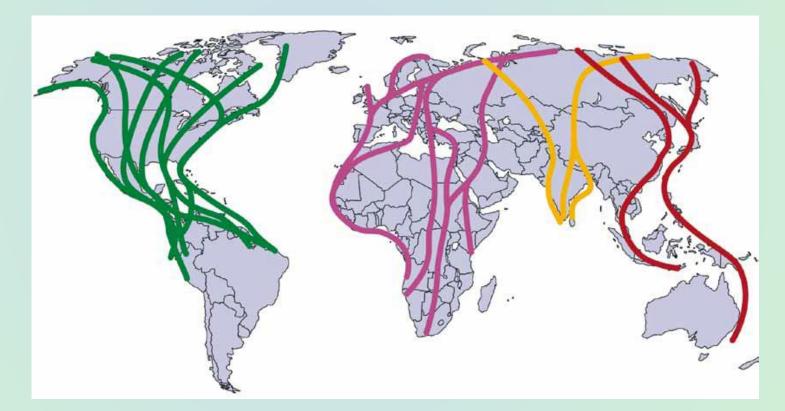








#### The principal flyways of migratory waterbirds breeding in the Northern Hemisphere.

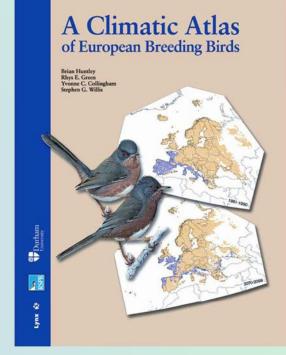




### Energy, birds and wildlife

- Climate change
- Habitat loss
- Habitat fragmentation/degradation
- Disturbance/ displacement
- Barrier effects
- Collision / electrocution risks
- Noise impacts on cetaceans
- Pollution
- Cumulative and flyway impacts
- Sustainable development

#### Climate change is a real, urgent threat. We need renewables, but they must be developed in harmony with nature



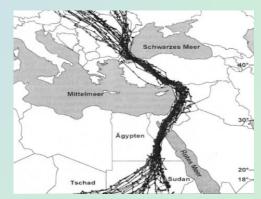
## Renewables, wildlife and social acceptance





- Renewables enjoy public support as 'green' technologies
- Wildlife conservation is 'green' and popular
- Harm to wildlife is:
  - bad PR
  - bad economics
  - bad international relations!





## Avoiding and minimising impacts

- Evidence-based approach to risks
- Plan ahead for industry growth
- Get policy frameworks right
- Work with stakeholders
- Use maps, local expertise, good data
- Use robust environmental assessments
- Avoid, minimise, compensate for harm
- Benefit nature and local economies
- BirdLife can help!

### Wind power and birds: likely effectiveness of mitigation measures

	Collision	Disturbanc e	Barrier effects	Habitat loss
Careful site selection	Н	н	н	Н
Sensitivity mapping	н	н	н	Н
Micro-siting of turbines	Н	н		
Selection of appropriate turbines	м			
Using smaller number of larger turbines	м	м	м	
Avoid / mark guy ropes on meteorological towers and other structures	н			
Install transmission cables underground	м			
Use good construction practices		н		м
Lighting	Н			
Use flight diverters	м			
Paint turbines	м			
Deterrents	м			
Habitat manipulation	м	Negative		
Increase turbine cut-in speed	н			
Operate short-term shutdown during peak activity	н			
Remove problem turbines	м			
Use good maintenance practices	м	м		м



#### BirdLife working with industry

#### Renewables Grid Initiative



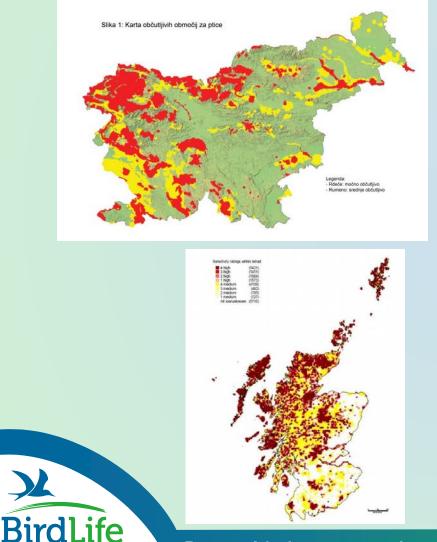


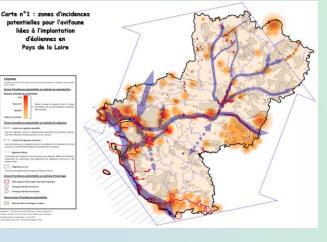
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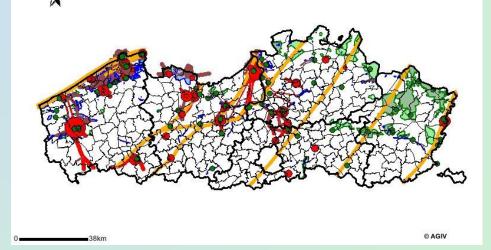




# Bird / wind power sensitivity mapping







### **Migratory Soaring Birds project**





Empowered lives. Resilient nations.

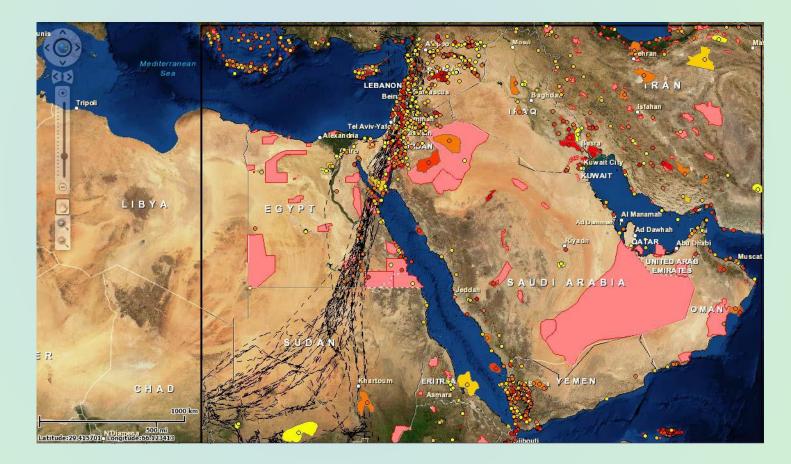


- The aim of the MSB project is to conserve and protect soaring birds during their migration along the Rift Valley / Red Sea flyway
- The project is being administered by Birdlife International working with national partners and a dedicated Birdlife Regional team: The Regional Flyway Facility; based in Amman and Nairobi.
- It is a UNDP GEF project



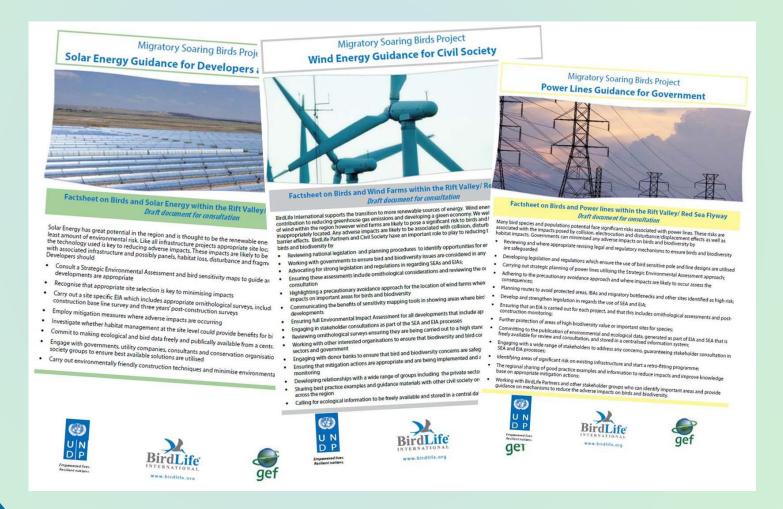


## Sensitivity mapping under the MSB project





#### **MSB** sectoral guidance





#### Thank you.

BirdLife International http://www.birdlife.org/

The RSPB <u>http://www.rspb.org.uk/climate/</u>

The MSB project http://migratorysoaringbirds.undp.birdlife.org/

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