Planning Reform on the Island of Ireland: from Policy to PRACTICE, 2nd May, 2013, Newry Renewable Energy				
Development				
NIRSA Nonaa Jamen Ba Rassas <i>an Stria</i> : Accivin Askelmen Stances val Assas Resource of va. Span.	Dr Ainhoa González ainhoa.gonzalez@nuim.ie			
Planning	Context			
	National Renewable Action Plans (RoI & UK) Directive 2009/28/EC on the promotion of the use of energy from renewable sources			
Onshore (biomass, solar, hydro, w	rind) , Offshore (wave, tidal, wind)			
Rol Targets	NI Targets			
16% energy by 2020	15% energy by 2020 (UK)			
40% of electricity 12% heat 10% transport	40% of electricity 10% heat N/A			
·	,			
Targets achieved primarily	y from wind			
Rol Planning	Context			
 Strategy for Renewable Energy – (Draft) Offshore Renewable Energy Onshore? 				
 Wind Energy Planning Guidelines – DOEHLG 1996 Wind Energy Dev. Guidelines for Planning Authorities – DOEHLG 2006 Best Practice Guidelines:Wind Energy Industry – INVEA 2012 Wind Atlas, County Development Plans and EIA 				

- NI > Strategic Energy Framework – DETI 2010
- > Offshore Renewable Energy Strategic Action Plan DETI 2012
- > (Draft) Wind Energy Development in NI's Landscapes DoE 2008 > Wind Protocol NIRIG 2013

> Ad-hoc planning?

- > Landscape capacity studies ongoing
- > Landscape-based approach to planning?

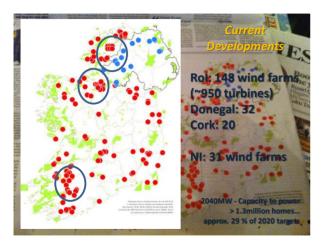
Electrical Interconnector Rol - NI

All-Island Energy Market-Renewable Electricity A 2020 Vision

Key Guiding Principles

- Economic competitiveness (reduction of energy costs)
- Security in supply ("self-sufficiency" and reliable local sources)
- Sustainability (renewable sources and environmentally-friendly projects)
- Infrastructure (foundation for the above)
- Achievement of EU targets

Priority Principle?



The Future

- Irish/NI Governments' target primarily from wind
- Additional 2,500 new turbines in RoI and 600 in NI
- UK interests and export market

Spatial Strategies
Location?
Cumulative Effects?

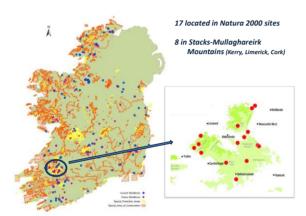
Planning Requirements	
Planning Application	
Environmental Impact Assessment	
(>5 turbines or 5MW or significant effects)	
Appropriate Assessment (screening)	
Cumulative Effects Assessment	
Wind measuring mast (planning permission)	
Access to Grid (Gate 3) (planning permission)	
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Key Potential Impacts	
Human Health	
– Noise	
– Shadow Flicker	
 Safety (distraction, proximity to roads and power lines) 	
Environment and Public Health	
(Wind turbines) Bill 2012 — Deputy Willie Penrose	
Establishment of mandatory set back distances:	
 ✓ 500 metres where turbine height is up to 50 m ✓ 1,000 metres where turbine height is up to 100 m 	
✓ 1,500 metres where turbine height is up to 150 m	
√ 2,000 metres where turbine height is > 150 m	
23.7% 9.4% 5.2%	
23.7% 9.4% 5.2% See dissid Distances See dissid Distances See dissid Distances	
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Key Potential Impacts

• Biodiversity, Flora and Fauna

- Habitat removal, degradation, fragmentation
- Species disturbance (feeding, breeding, roosting, etc.)
- Mortality by collision
 - Birds and Bats





Key Potential Impacts (Cont.)

Landscape

- Visual impact (scenic routes and designated views)
- Zone of Visual Influence
- Landscape character change



- Number (and spatial extent)
- > Siting (ridges versus lower ground)
- Spacing (regular versus irregular)
- > Height (tall, medium, short)
- > Layout (grid, aligned, clustered)



Key Potential Impacts (Cont.)

• Soil

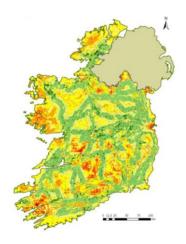
- Slope
- Stability (e.g. Derrybrien)



Water

- Drainage and changes in hydrology
- Secondary effects on water-dependent habitats
- Karst limestone





Evidence-based National / All-Island Wind Energy Strategy

Ad-hoc (project-led) versus Objectives-led

Cumulative Effects



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What land use conflicts, if any, need to be	
addressed as a priority? How?	
Are cross-border cumulative effects being	
apropriately appraised?	
Is transboundary consultation for renewable energy planning effective?	
What cross-border mechanism are needed to	
better coordinate renewable energy planning?	