



Who are the John Muir Trust?

The Trust aims to protect and enhance wild land and ensure that wild places are valued by all sectors of society:

- 1. By owning and managing wild land
- 2. By raising awareness of its value
- 3. Through advocacy for better protection Wild Land Campaign



Why listen to us?

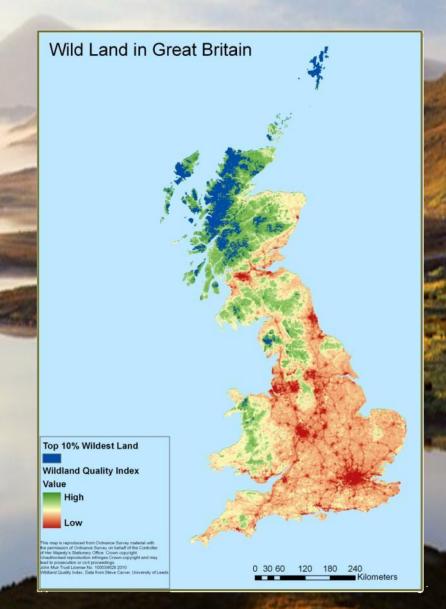
- Coal face Scotland, like Wales
- Led environmental orgs at Beauly Denny 400kV electricity transmission PL Inquiry
- Taken full part in (only) two major wind PLIs
- Huge number of lessons learned
- Landscape and visual bottom of constraints list?



Where is the wild land?

- Top 10% in UK (blue)
- How well protected is it?

(Wild Land Research Institute mapped for Trust)

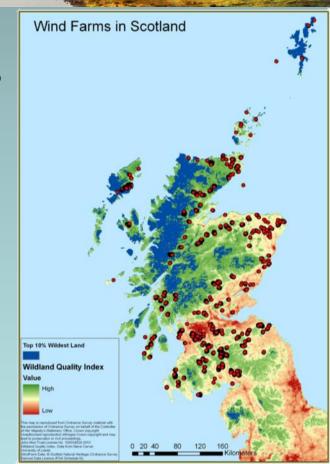




Wild land faces major threats

SNH Natural Heritage Indicator "Visual influence of built development and land use change"

 the extent of Scotland unaffected by any form of visual influence declined from 41% in 2002 to 28% in 2009"

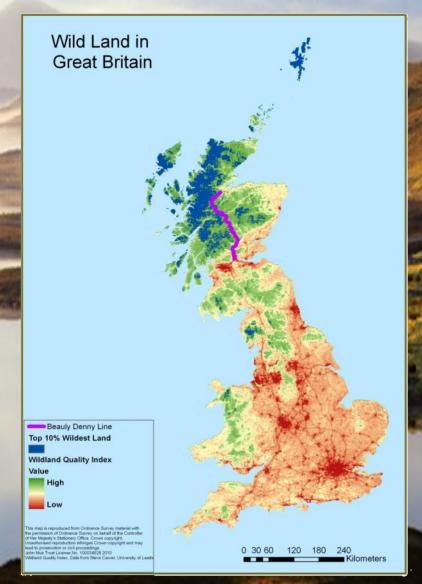


Map gives tool for policy decisions



E.g. Beauly Denny pylon route –

- Tomich Dundreggan (Glen Moriston)
- Corrieyairack Pass
- Feagour Dalwhinnie
- Drumochter Pass
- Tummel Bridge past Schiehallion





Beauly Denny – what is it?

- It's a 400kV transmission line
- 220kms long through spine of Highlands
- 600 pylons
- Some of pylons are 65m high
- About the height of the Scott Monument

Corrieyairack Pass Beauly Denny transmission line route





Continued Threats

current issues include wind farms, power lines, other energy infrastructure and bulldozed tracks

"as far as wind farms are concerned, strengthened electricity grid connections may in future years generate more interest in development in our remoter areas of wild land in the far north and west which have hitherto been less developed."

(Scottish Government response to John Muir Trust petition, Feb 2011)





Looking towards site of Muaitheabhal wind development (Eisgein, South Lewis)

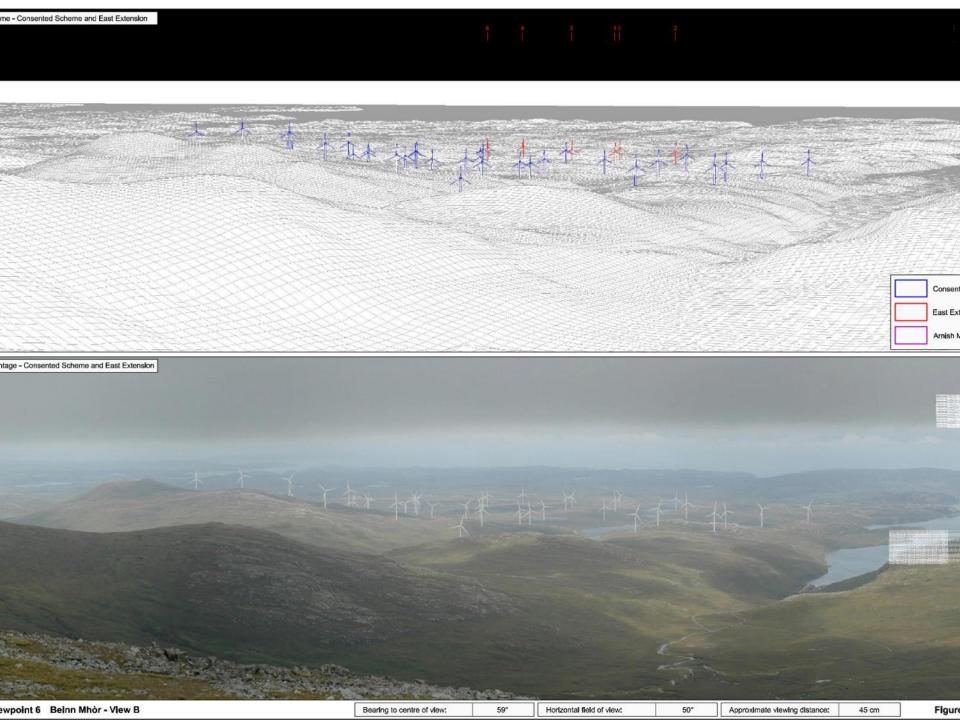


Approved Muaitheabhal development (photomontage)

Public Local Inquiry into previous design, in National Scenic Area, found landscape and visual impacts unacceptable

Developer redesigned outside the NSA; no further public involvement

Is this the right development, in the right place?





Photomontage of a small part of Shetland development (Viking) – currently applying for 127*145metre high turbines

It has to happen, anyway..... doesn't it?



- For the good of the world, because of "climate change"
- The Trust has worked with experts in energy, transmission and economics
- The evidence does not support a lot of the claims
- Putting large-scale energy developments on e.g. deep peat or, often, where long-distance transmission is required is particularly perverse



Windy Standard Wind Farm from the Southern Upland Way (C Townsend)

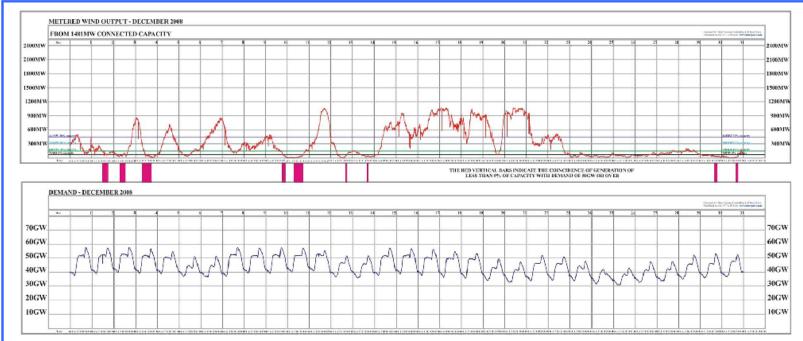
Claim - "Wind turbines will generate on average 30% of their rated capacity over a year"

 In fact, over 26 months, the average output from wind was 24.08% of metered capacity

Claim - "The probability of very low wind output coinciding with peak electricity demand is slight."

 At each of the four highest peak demand points of 2010, wind output was extremely low, ranging from 2.51% - 5.51% of metered capacity

Source: Analysis of UK Wind Power Generation, Stuart Young Consulting



SUMMARY

DURING DECEMBER 2008, FROM THE 1481MW CONNECTED WIND CAPACITY WHICH NATIONAL GRID CAN "SEE"

OUTPUT WAS 30% OF CAPACITY OR MORE FOR OUTPUT WAS BETWEEN 20% AND 30% OF CAPACITY FOR OUTPUT WAS BETWEEN 10% AND 20% OF CAPACITY FOR OUTPUT WAS BETWEEN 5% AND 10% OF CAPACITY FOR	29.10 % OF THE TIME 10.37 % OF THE TIME 14.77 % OF THE TIME 16.72 % OF THE TIME
OUTPUT WAS BETWEEN 2.5% AND 5% OF CAPACITY FOR	16.52 % OF THE TIME
OUTPUT WAS BETWEEN 1.25% AND 2.5% OF CAPACITY FOR	8.05 % OF THE TIME
OUTPUT WAS LESS THAN 1.25% OF CAPACITY FOR	4.46 % OF THE TIME
THEREFORE,	
OUTPUT WAS 30% OF CAPACITY OR MORE FOR	29.10 % OF THE TIME
OUTPUT WAS LESS THAN 30% OF CAPACITY FOR	70.90 % OF THE TIME
OUTPUT WAS LESS THAN 20% OF CAPACITY FOR	60.53 % OF THE TIME
OUTPUT WAS LESS THAN 10% OF CAPACITY FOR	45.75 % OF THE TIME
OUTPUT WAS LESS THAN 5% OF CAPACITY FOR	29.03 % OF THE TIME
OUTPUT WAS LESS THAN 2.5% OF CAPACITY FOR	12.51 % OF THE TIME
OUTPUT WAS LESS THAN 1.25% OF CAPACITY FOR	4.46 % OF THE TIME

NOVEMBER GENERATION

MAXIMUM GENERATION WAS	1074MW	OR	72.52% OF CAPACITY
MINIMUM GENERATION WAS	2MW	OR	0.135% OF CAPACITY
AVERAGE GENERATION WAS	319MW	OR	21.54% OF CAPACITY

COINCIDENCE OF LOW OUTPUT AND HIGH DEMAND

OUTPUT FELL BELOW 5% OF CAPACITY WHILE DEMAND WAS IN EXCESS OF 50GW ON NINE SEPARATE OCCASIONS TOTALLING THIRTY-SIX HOURS AND FORTY-FIVE MINUTES. GENERATION FELL TO SINGLE FIGURES FOR THIRTY-SEVEN FIVE MINUTE PERIODS WHILE DEMAND WAS 50GB OR OVER, AND FOR A TOTAL OF FIFTEEN HOURS AND FIFTY MINUTES IN THE MONTH

Luxury development proposed at Loch Rannoch



UK Campaign



UK threats

UK Landscape Group

- Cambrian Mountain Society
- Yorkshire Dales Society
- Campaign for National Parks
- Friends of the Lake District
- Campaign for the Protection of Rural Wales
- Outdoor Industries Association
- What about BMC?

"There is a history, in the field of environmental protection, of acting decisively only when the resources in question are under extreme threat. Given the distinctiveness and rarity of Scotland's wild land resource — in a western European, not purely a UK, context — we must surely avoid this trap and act before it is too late".

(SNH response to the John Muir Trust's petition to the Scottish Parliament, February 2011)

