



Planning for wind energy

A workshop for the north east region supported by
Government and Industry

Session III: A Range of Perspectives
High Volts Wind Farm: prelude to site visit

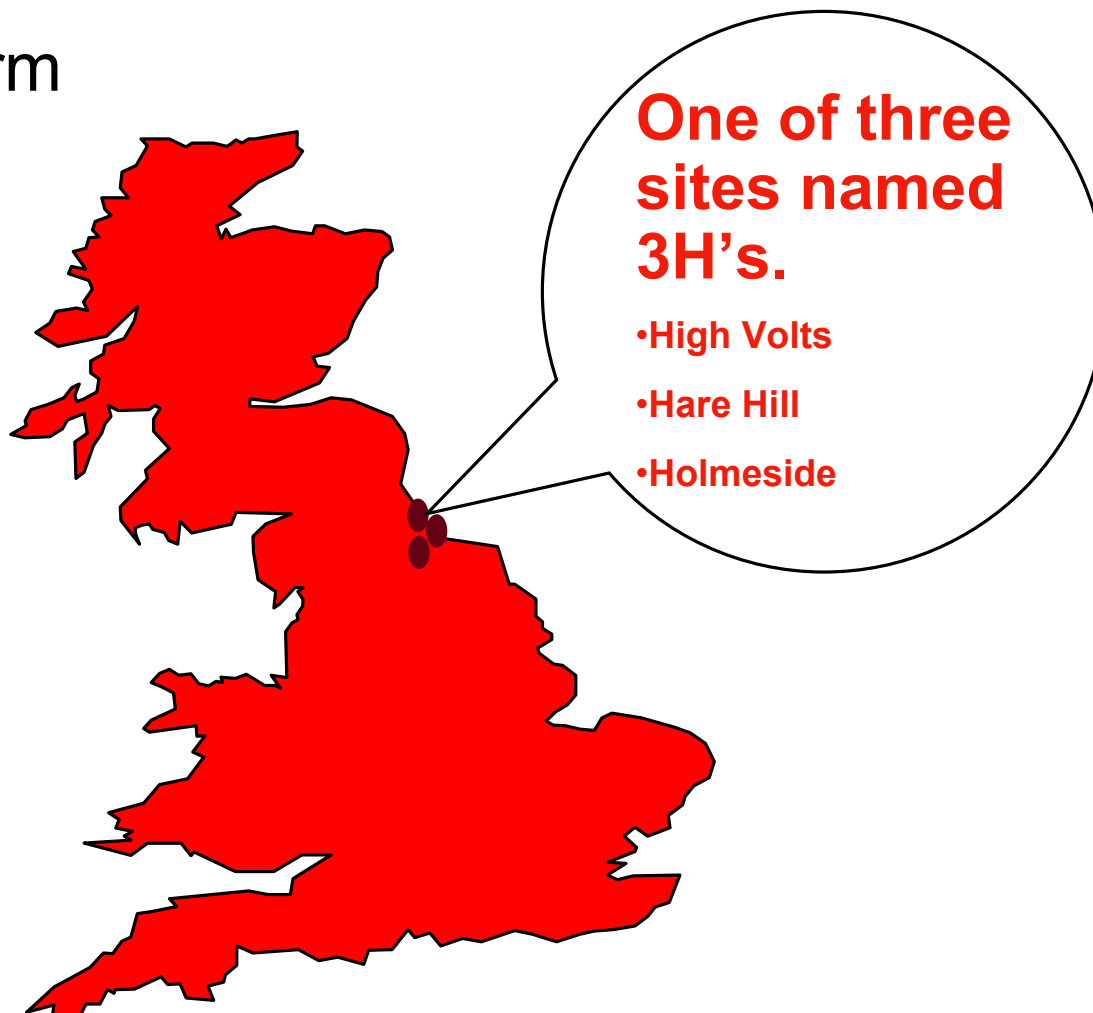
Neil Riley

Development

Outline of the Process of:

- Site Selection
- Planning Approval; and
- Construction of High Volts

High Volts Wind Farm



High Volts Wind Farm

E.ON Aquisition 2001

Turbines

Electrical Grid Connection

Completed in 2003



High Volts Wind Farm - Benefits

Environmental Benefits

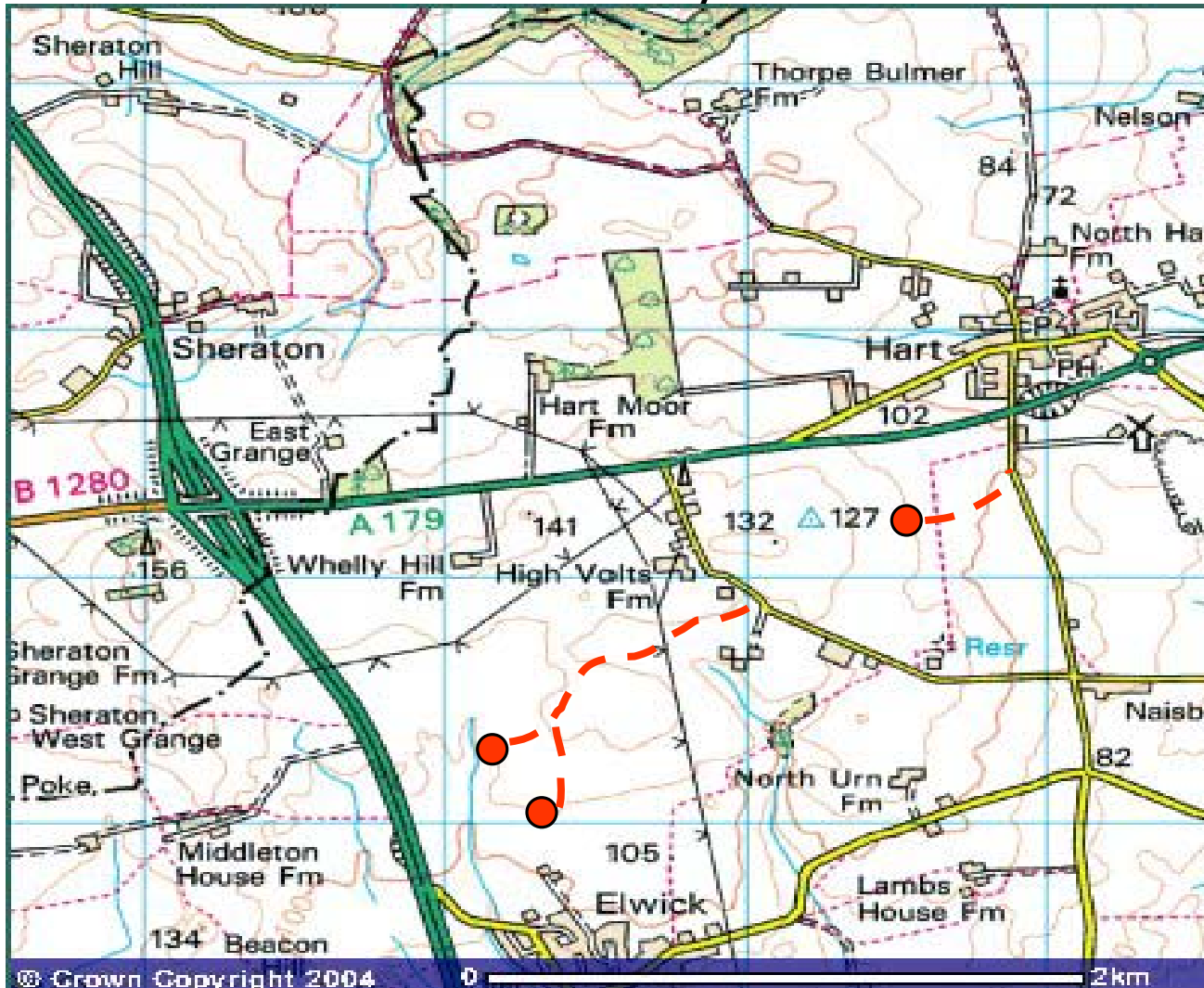
Community Benefits

- **Ongoing schools links**

Landowner income

Construction and on-going maintenance activity

High Volts Wind Farm Site Layout



Site Selection

- **Screening**

- **Initiate discussions with the LPA**

- **Establish contact with the local community & key consultees**

Commission preliminary views/studies from specialists

Consider the connection into the grid

Site Selection

Planning Consultees

Planning Policy

Wind Resource

Land Availability

Site Selection

Landscape Designations

Land Constraints

- Utilities
- Ecology
- Archaeology.
- Amenity

Site Selection

Noise

Grid Connection

Access

Site Selection – Summary

Design Development - Compliance with Constraints

Compromise between Environmental & Technical Factors

Phased Screening process

Commercial Viability

Dialogue with LPA, Consultees, Community

Planning Process & Consent

Layout developed & detailed EIA prepared

Planning application & ES submitted to LPA

Post Consent Planning Condition negotiation & agreement

Detailed engineering design follows using the above

Planning Process & Consent -Summary

Dialogue

Post Consent Planning Condition negotiation & agreement

Detailed engineering and post consent approvals

Construction

Contractor Appointment

Site Establishment

Civil Works (On & Off Site) & Electrical Infrastructure Works

DNO Cable/OHL Works

Testing & Commissioning

Performance Test

Re-statement of temporary working areas at the end of construction

Construction

Method Statements

Civil Works – Site Tracks

**Re-instatement of
temporary working areas at
the end of construction**



Construction

Method Statements

Civil Works – Sub Station

Re-instatement of temporary working areas at the end of construction



Construction

Method Statements

Civil Works

**Re-instatement of
temporary working
areas at the end of
construction**



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Construction

Method Statements

Turbine Errection



Commissioning

**Testing & Commissioning
Procedures**

**Safety Rules for High
Voltage Equipment**



Construction - Summary

Engineering Design & Post Consent Approvals - complete

Appoint Contrators (Pre-tender H&SP, Environmental management Plkan, Contracts)

Method statements govern construction

Dialogue with LPA / key consultees

Finally

Site Selection – compromise between environmental and technical factors

Phased Site Selection

Planning Consent & post Consent conditions - time

Method statements used to govern the construction

Building ongoing links with local community, schools

Dialogue



Planning for wind energy

A workshop for the north east region supported by
Government and Industry

Session III: A Range of Perspectives
High Volts Wind Farm: prelude to site visit

Neil Riley