













Day 1 Objectives

Ability to..

- 1. Determine project eligibility
- 2. Calculate emission reductions from mapping and survey data
- 3. Assess project finance / additionality
- 4. Summarise all aspects of the project through the project design document (PDD)













Day 2 Objectives

Ability to..

- 1. Set up IHS Markit account & register projects
- 2. Understand the validation / verification process
- 3. Promote the code to stakeholders and answer queries
- 4. Understand carbon units and sales.













Day 1 - Outline

- Eligibility 10.15 11.00 (45 mins)
 Break 1 11.00-11.15
- 2. Emissions Calculations 11.15 12.30 (1h 15m) Lunch 12.30-13.15
- 3. Finance and additionality 13.15-14.15 (1hr)
 Break 2 14.15-14.30
- 4. PDD and other documents 14.30-15.30 (1hr)
- 5. Summary and Q+A 15.30 16.00 (30 mins)













1. Eligibility

- Peatland type must be blanket or raised bog
- Peat soils must be greater than 50cm in depth (For 75% of survey points)
- Peatland condition must be 'Actively Eroding' or 'Drained'
- No drainage or vegetation removal since 2015
- Restoration activities must not include forestry removal
- Restoration must not be legally or contractually required
- Restoration activities must not conflict with any other land management agreements
- Project must be additional i.e. it must require carbon finance to take place
- Project must be able to enter a minimum contract of 30 years













Peatland type

https://www.iucn-uk-peatlandprogramme.org/about-peatlands/uk-peatlands

| Туре | Form | Nutrient status | Water source |
|-------------|---|---|-------------------------------|
| Blanket Bog | Blanket of peat following contours of landscape | Poor / acidic | Precipitation |
| Raised Bog | Localised domes of peat – mainly in lowlands | Poor / acidic | Precipitation |
| Fen | Widespread areas usually in lowlands | Varies with geology – affects plant types | Precipitation and groundwater |













Minimum Peat depth

| Project duration | Minimum peat depth |
|------------------|---|
| 30-50 years | 50 cm for 75% of survey points |
| 50+ years | Depth at 75% of survey points must equal project duration. i.e. 75 Years = 75% at 75cm 100 years = 75% at 100cm |

- Assumes loss of 1cm per year
- Must apply to all assessment units
- How to assess before detailed survey?
 - Site visit, local knowledge and imagery may help













Condition categories

| Category | Description | Eligible |
|-----------------------------------|---|----------|
| Actively eroding – Hagg Gully | Steep bare peat cliffs and/or bare gully bottoms | Yes |
| Actively eroding – Flat / Bare | Extensive continuous bare peat (e.g. peat pan or former cutting site) | Yes |
| Drained - Artificial | Within 30m of an active artificial drain (grip) | Yes |
| Drained - Hagg / Gully | Within 30m of hagg/gully drainage system | Yes |
| Modified | Highly degraded – little sphagnum, heather dominant, frequent bare peat patches (micro erosion) Moderate degradation – some sphagnum, scattered heather, limited bare peat patches | No |
| Near natural | Sphagnum dominated, heather and bare peat scarce or absent | No |













Other eligibility considerations

- No drainage or vegetation removal since 2015
 - Ask owners / occupiers / neighbours about site history
- Restoration activities must not include forestry removal
 - Forested peatland unlikely to be eligible
- Restoration must not be legally or contractually required
- Restoration activities must not conflict with any other land management agreements
 - Ask owners if they have any legal / contractual agreements to restore peatlands, what other land management agreements cover the land (i.e. HLS agri environment, countryside stewardship, access agreements etc) and if they anticipate any conflicts with restoration.
- Project must be additional i.e. it must require carbon finance to take place
 - Additionality calculator will determine this
- Project must be able to enter a minimum contract of 30 years



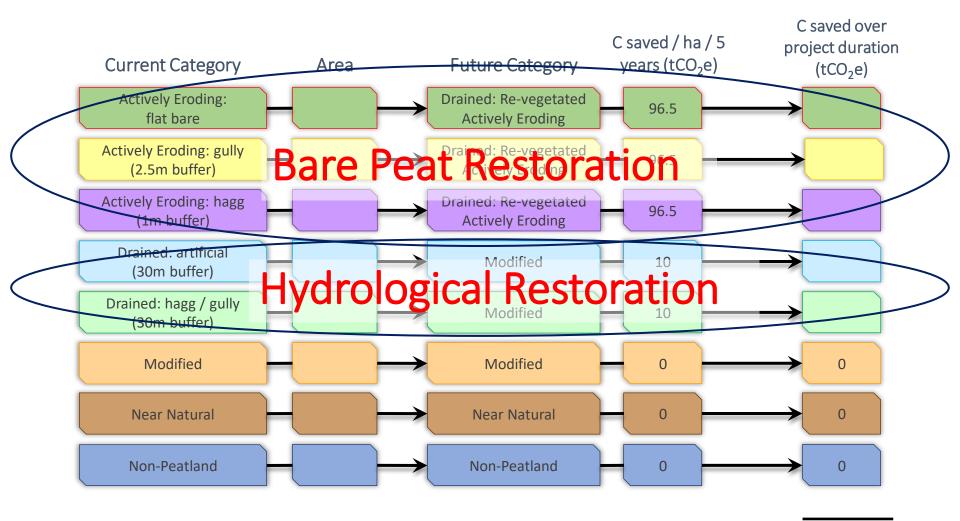








2. Emissions Calculations



Total carbon savings



Emissions calculator

| Assessment Unit | Area (ha) | Pre-Restoration (Baseline) Condition Category | Post-Restoration Condition Category |
|-----------------|-----------|---|--|
| AU1 | 3.89 | Actively Eroding: Flat Bare | Drained: Re-Vegetated Al |
| AU2 | | Actively Eroding: Hagg/Gully | Drained: Re-Vegetated Al |
| AU3 | 12.16 | Drained: Hagg/Gully | Modified |
| AU4 | 9.26 | Modified | Modified |
| AU5 | | Non-Peatland | Non-Peatland |
| AU6 | | | |
| AU7 | | T-bl- 5 | |
| AU8 | | Table 5 | 1.0 |
| 4110 | | Cumulative Emissions R | eduction over project dura |

e.g. 2281 tCO2e Saving over 30 years

| - | Cumulative Emissions Reduction over project duration (tCo2e) | | | | | |
|---|--|-----------|--------------------|---------------------|---------------------|---------------------|
| - | | Gross | Emissions | Net Emissions | Cumulative Risk | Cumulative |
| - | Period | Emissions | Reduction less 10% | Reduction adjusted | Buffer Contribution | Claimable Emissions |
| | (Year) | Reduction | model precision | for Leakage (tCO2e) | (tCO2e) | Reduction (tCO2e) |
| - | 0-5 | 497 | 447 | 447 | 67 | 380 |
| | 5-10 | 994 | 895 | 895 | 134 | 760 |
| | 10-15 | 1491 | 1342 | 1342 | 201 | 1141 |
| | 15-20 | 1988 | 1789 | 1789 | 268 | 1521 |
| | 20-25 | 2485 | 2236 | 2236 | 335 | 1901 |
| | 25-30 | 2982 | 2684 | 2684 | 403 | 2281 |
| | 20.25 | 0 | 0 | 0 | 0 | |



25.31

AU9 AU10

Total











2. Mapping and survey

- Pre survey grids, site boundary, non peatland etc
- Survey data photos and peat depth, drone imagery
- Likely assessment units
- Restoration considerations
 - Haggs to reprofile
 - Grip blocking
 - Gully blocking
- GIS work
 - Outlines and buffers
 - Area calculations
 - Automatic scripts





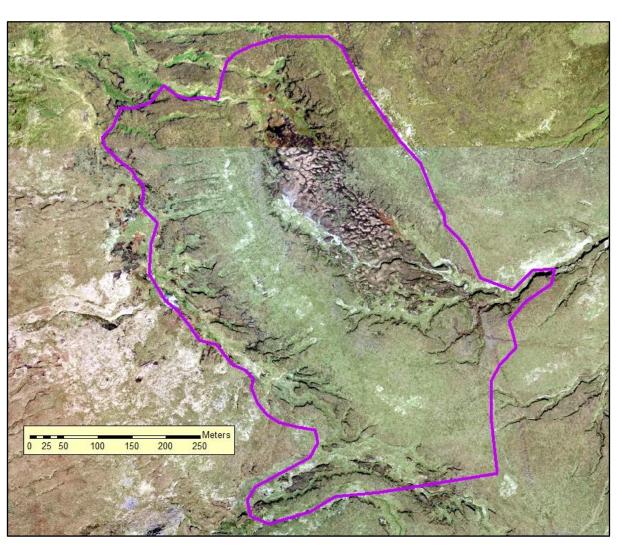




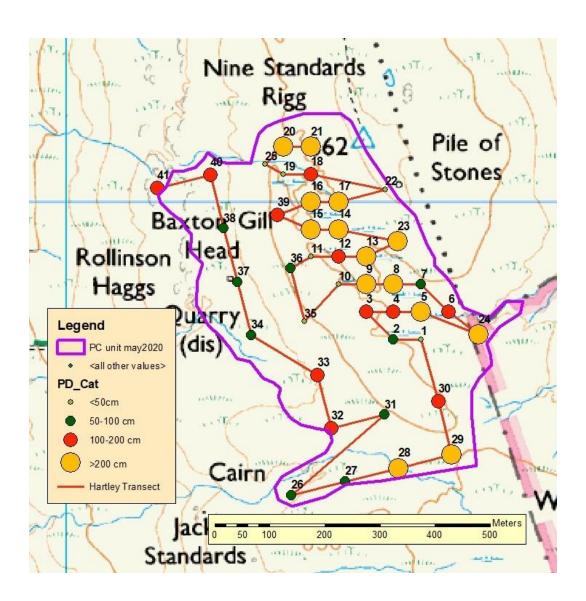


Desk assessment

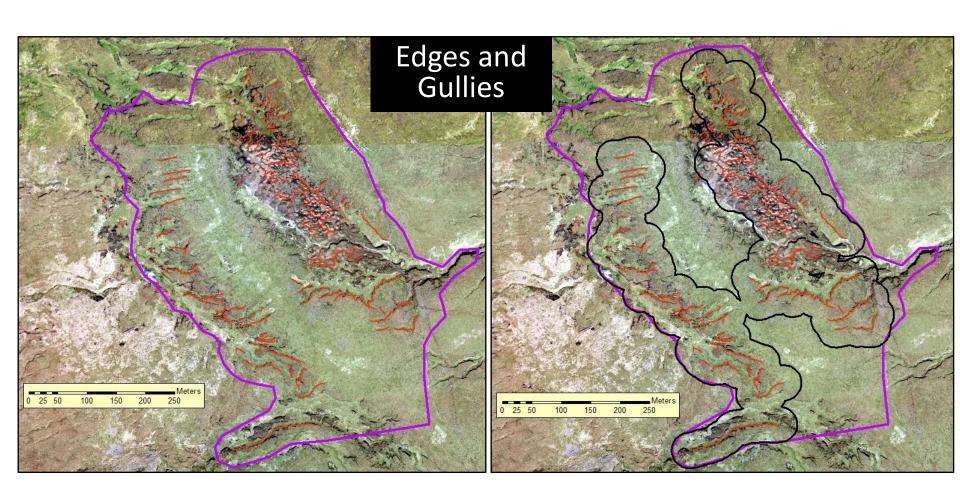




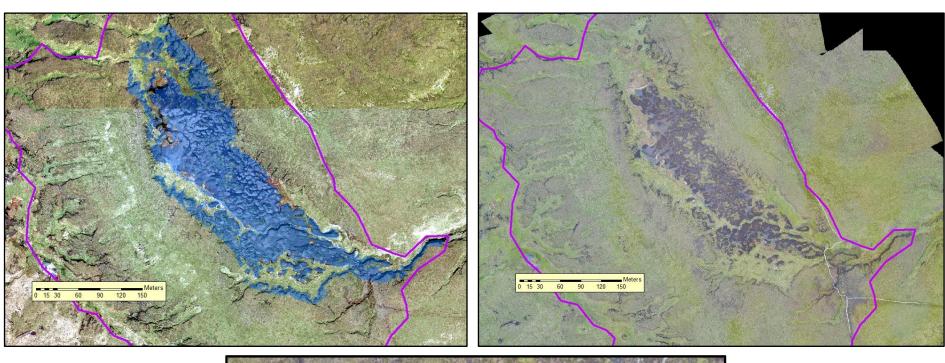
Ground Survey



Tracing and buffering

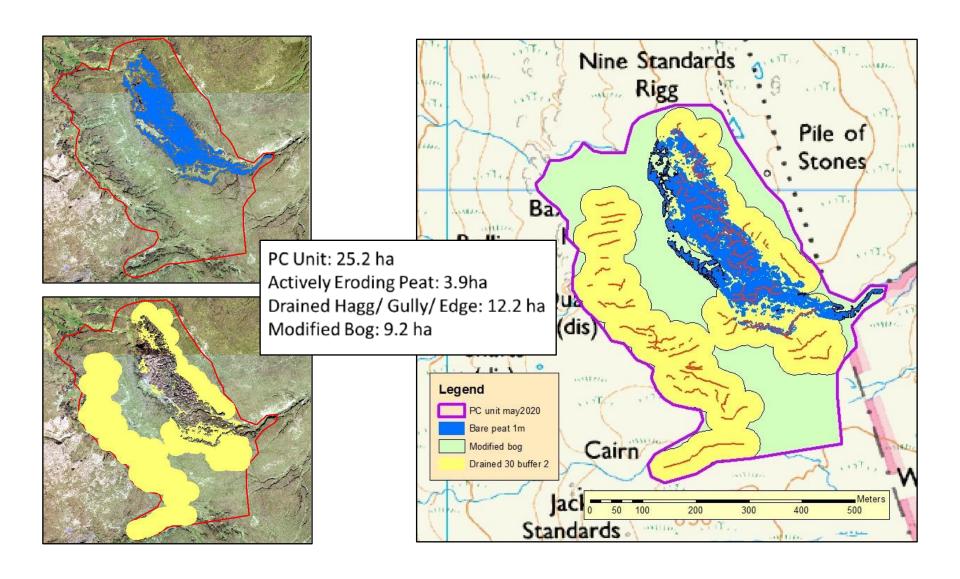


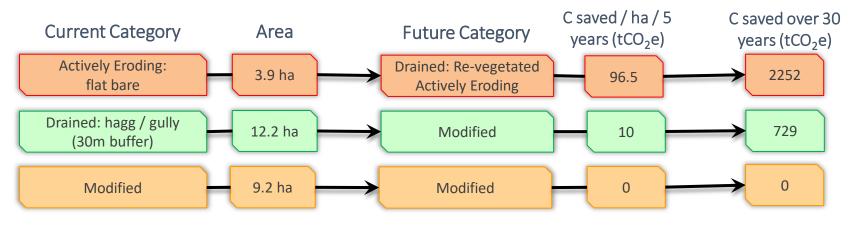
Bare Peat Classification





Area Calculations

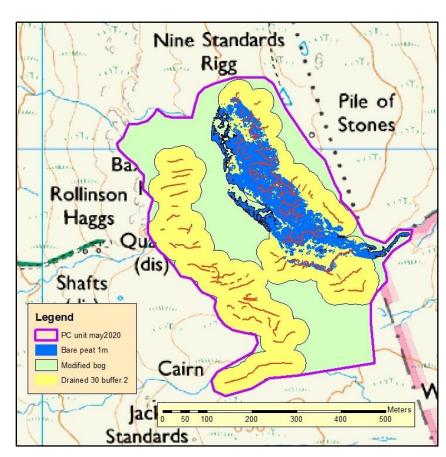




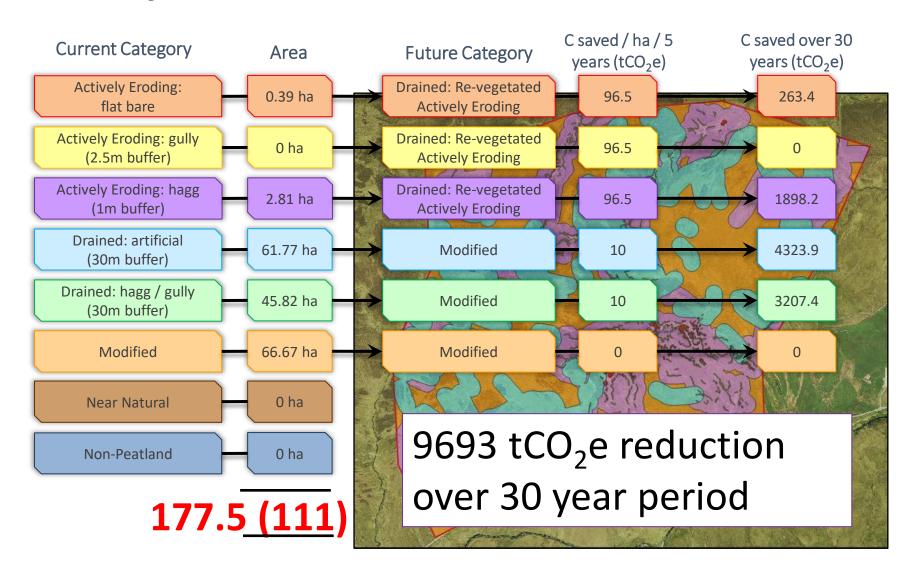
25.3 (16.1)

Hartley Common North Pennines

2981 tCO₂e reduction over 30 year period



Blaen y Coed - Wales





3. Finance

- Restoration specification
- Grants available
- Top up measures
- Peatland code costs
- Landowner / administration costs





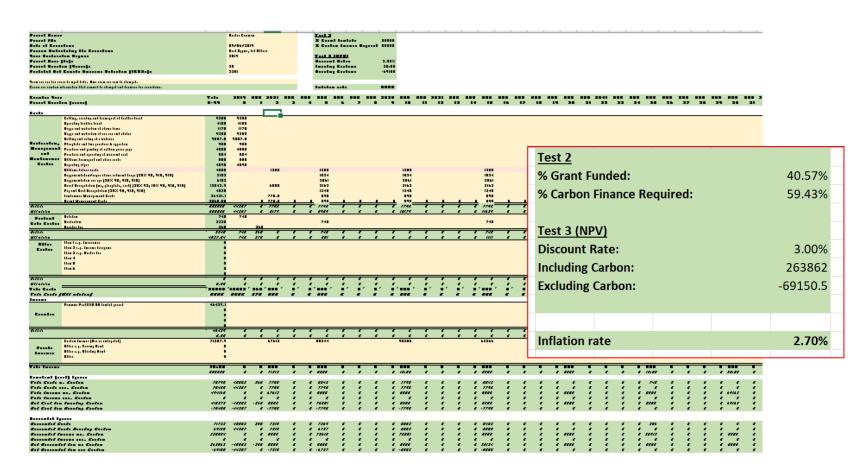








Additionality Calculator















4. PDD and other Documents

- PDD (Project design document)
 - Incorporates
 - Emissions calculator
 - Additionality calculator
- Risk assessment
- Others (may be included in PDD)
 - Project maps
 - Management plan
 - Monitoring plan
 - Landowner and Project developer commitments













Project Design Document

| 1. Eligibility and Governance | 4 |
|---|--------|
| | |
| 1.1 Eligible Activities | 4 |
| 1.2 Project Duration | 4 |
| 1.3 Eligible Land | 5 |
| 1.4 Consultation | 5 5 |
| 1.5 Additionality | 6 |
| 1.6 Avoidance of Double Counting | 6 |
| 1.7 GHG Statements | 7 |
| 2. Project Design | 7 |
| 2.1 Management Plan | 7 |
| 2.2 Monitoring Plan | 8 |
| 2.3 Management of risks and permanence | 8 |
| 3. GHG emission reduction | 9 |
| 3.1 Establishment of Baseline Emissions | 9 |
| 3.2 Leakage | 9 |
| 3.3 Net Project GHG emission reduction | 10 |





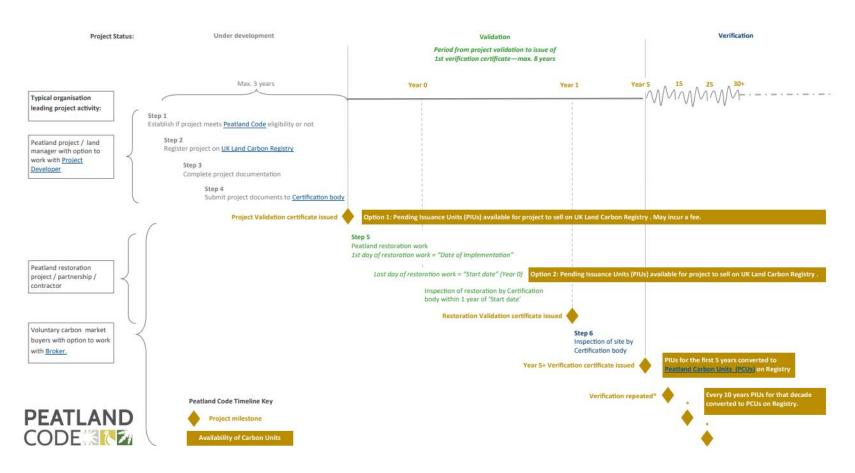








The Peatland Code - timeline















Peatland code - steps

- Survey on 100m gird with peat depth, photos, category / vegetation
- Restoration plan
- Map of restoration interventions to calculate areas of category change
- Emissions calculator (using category change areas)
- Create IHS Markit account (for project developer or landowner)
- Register site on IHS Markit
- Project Design Document (PDD)
- Consultation responses (see PDD)
- Contractor quotes for restoration costs
- Secure grant funding including evidence letters for validators
- Additionality calculator (using restoration and peatland code costs and grant funding details)
- Project Risk Assessment
- Validation application form (from OF and G or Soil association)
- Communications agreement (if landowner not IHS Markit account holder)











Survey and Mapping











