

# **Translating Policy into Action for Air Quality**

# **A Natural England Perspective**

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#### **Regulatory Context**

NATURAL ENGLAND

Regulatory decisions are made in the context of:

- high background levels of nitrogen deposition
- wide range of impacts/ sources with varying regulation
- air quality impacts not reflected in assessment of site condition
- uncertainties in risk assessment





## Air Pollution Risk in England



SACs



- Majority of protected sites in England exceed critical loads
- Biodiversity 2020 air pollution as threat to biodiversity
- UK Biodiversity Indicators Indicator 10: Ecological impacts of air pollution
- Habitats Directive reporting air pollution category - threat & pressure

Source: UK CL Focal Centre, 2015

#### Dealing with a Range of Impacts



Improvement Programme for England's Natura 2000 Sites (IPENS) – Planning for the Future IPENS050

#### Case Studies for Delivering Ammonia Measures



#### Atmospheric nitrogen theme plan

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Developing a strategic approach for England's Natura 2000 sites



'Improvement Programme for England's Natura 2000 Sites – Planning for the Future'

Environment Verte

www.gou.uk/government/publications/improvement programme for engineer nations 2000 sites (pers

Improvement Programme for England's N2K Sites (IPENS) outlined three interrelated approaches are needed:

- 1. National and international measures which reduce the background deposition
- 2. Locally targeted measures that reduce or intercept nitrogen emissions close to protected sites
- 3. Habitat restoration measures that mitigate the impact

#### Site Nitrogen Action Plans (SNAPs)





- Implement actions outlined in the <u>Atmospheric Nitrogen</u> <u>Theme Plan</u>
- Understand site specific pressures
- Identify data gaps
- Agree remedies with timelines
  - Data gathering
  - Actions

#### **Tackling Unregulated Sources**



Through the Rural Development Programme for England:

 Countryside Stewardship Scheme –incentives for land managers to protect the environment. Including capital grants for woodland (buffer) creation, slurry store covers, incentives for reduced fertiliser input



- Countryside Productivity Scheme –grants towards eg innovative equipment for slurry management, managing ammonia emissions
- Nitrogen-use-efficiency Integrated Project advice and incentive for investment in equipment and innovative technology to reduce N losses



#### Air Quality and Site Condition



- Nitrogen Decision Framework (NDF)
- Joint work with JNCC, NRW, SNH & NIEA
- Attributes the contribution of nitrogen deposition to unfavourable condition on protected sites
- Information incorporated into NDF:
  - N deposition at the site and a measure of its certainty
  - how the deposition relates to the critical load range for that habitat and a measure of certainty around that critical load range
  - site-based evidence of N impact.

## Nitrogen Decision Framework: How it works (now)



#### Very Low Exceedance Score (Nmid < MinCL; Nmax <=MinCL)





Common Standards Monitoring

Notified feature sensitivity or survey data

Site-based Evidence (Factor 2 Score) Increasing evidence of N impact



#### Site Condition: Outcomes and Trajectories





- What can be measured?
- How?
- What timeframes?
- What is a reasonable outcome?

#### **Uncertainties**



Critical loads and levels

Feature sensitivity

Modelling

## Uncertainty

Future projections

Mitigation efficacy

Type of pollutant



# Questions?



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