

# Electric and Magnetic Fields

## Corporate public position statement

### 1. Objective

- 1.1 Electric and Magnetic Fields (EMFs) can be generated from a wide variety of sources, including distribution and transmission power lines and wireless infrastructure. National Grid recognises that there is some scientific evidence suggesting certain adverse health effects are linked to EMFs. There is also evidence linking an increased risk of certain diseases to proximity to powerlines, though the cause of this is not clear. As a consequence there is public concern and we take these issues very seriously.
- 1.2 This public position statement provides a framework for managing the EMF issues facing National Grid. The public position statement helps set the framework within which we will continually assess the scientific evidence in this area, determine any implications for the way in which we conduct our business, and explain to society what the science is telling us.
- 1.3 The Director of Electricity Transmission Asset Management is responsible for ensuring that this public position statement reflects and is compliant with current legislation and is kept up to date with new or changing legislation.

### 2. Scope

- 2.1 This public position statement applies to National Grid and its Subsidiary Companies focused on electricity transmission, electricity distribution and wireless infrastructure. For Associate Companies, National Grid will seek to promote the adoption of statements consistent with the principles set out in this document.
- 2.2 This statement covers the EMFs that arise from transmission or distribution power lines and associated equipment as well as radio-frequency EMFs that arise from wireless infrastructure, including from third-party assets.

### 3. Framework

- 3.1 Electric and Magnetic Fields can arise from many sources including household appliances, electrical distribution and transmission facilities and equipment, mobile telephones and radio-transmission devices. Research is ongoing to improve our understanding of the effects of EMFs. The balance of evidence remains against both power-frequency and radio-frequency EMFs causing ill health. The World Health Organization has classified power-frequency EMFs as

“possibly” carcinogenic. This scientific position is reflected in the views of the regulatory bodies in the countries in which we operate.

3.2 We also recognise that scientific developments on EMFs do not depend on international boundaries. This public position statement establishes the common threads applicable across all of our operations.

3.3 Our public position statement as regards EMFs has seven central principles:

- We recognise that the societies in which we both operate and live hold a variety of views on EMFs. In view of the scientific position and the fact that EMFs are of concern to some, we take the issue very seriously.

- In all our operations, as a minimum we comply with EMF regulations, guidelines or practices in force in the countries and different jurisdictions in which we operate. Where other companies (such as telecommunications operators) use our assets, we expect them similarly to comply with the relevant regulations, guidelines or practices.

- We support the view of regulators and governments that the EMF issue warrants consideration for a precautionary approach and we look to them to decide on any measures that may be necessary, as they can evaluate the science and weigh up costs and benefits on behalf of society as a whole.

- To mitigate the amenity impact of new overhead transmission lines, we always endeavour to route them:

  - along formal Rights of Way in countries where they exist; or
  - away from existing buildings where they do not.

In order to ensure safety clearances and to help us maintain our network, we do not encourage built development immediately beneath our lines. We will work with planning bodies to promote the sustainable use of land under our lines. These steps will usually result in EMF exposures being lower than would otherwise be the case.

- We recognise that scientific understanding of the effects of EMFs is improving. We review all relevant scientific developments in this area from across the world and assess any implications for the way in which we operate.

- We support high-quality research into EMFs, and make the results available for scientific review.

- We communicate in an open manner with those who have an interest in EMF matters, and make available information that will help society’s understanding of EMFs. We will participate openly and constructively in debate on precautionary approaches appropriate to the EMF issue.

3.4 In support of this public position statement, each Subsidiary Company will ensure that:

- A plan is put in place to ensure all elements of this public position statement of relevance to its business are implemented.

- All regulatory and legal requirements are met for both new and existing lines and infrastructure.
- All breaches, suspected breaches and areas of vulnerability to prosecution are investigated and if appropriate prompt corrective actions taken. Associate Companies will be encouraged to put similar arrangements in place.

#### 4. Related Corporate Policies and Other Documents

- Framework for Responsible Business.
- Environment policy.
- Safety and Occupational Health policy.
- Terms of Reference of the Risk and Responsibility Committee.

#### 5. Key Contacts

- 5.1 This public position statement is written and maintained by the Director of Asset Management, Transmission, to whom questions regarding its content and application should be addressed.
- 5.2 The lead expert for this public position statement and the first point of contact is Dr John Swanson, Scientific Advisor, Electricity Transmission Asset Management.

#### 6. Monitoring and Compliance

- 6.1 The Director of Electricity Transmission Asset Management is responsible for ensuring that this public position statement is effectively communicated throughout its lifecycle.
- 6.2 The Director of Electricity Transmission Asset Management will ensure that compliance with this public position statement is reviewed on an annual basis. Any changes needed to ensure its effectiveness will be drawn to the attention of the Board's Safety, Environment and Health Committee and to the Board itself.
- 6.3 Each Subsidiary Company will ensure that it has the necessary arrangements in place to monitor and report compliance against this public position statement on an annual basis. Each Associate Company will be encouraged to put in place similar arrangements to enable compliance to be reported on an annual basis.
- 6.4 In line with good corporate governance, we will review this public position statement every year, and report on its implementation through our Responsible Business Report.

6.5 The Corporate Environmental Audit Programme will be used from time-to-time to determine the level of compliance with all, or aspects of, this public position statement.

## 7. Definitions

7.1 Associate Company: A company whose equity share capital is 20% or more, but not more than 50%, beneficially owned by a National Grid company or companies.

7.2 Subsidiary Company: A company that is a subsidiary of National Grid provided that a National Grid company holds or controls a majority of the voting rights in it or the right to appoint or remove a majority of its directors.

## 8. Timing

8.1 This Public Position Statement came into effect in 2003.

8.2 It was last reviewed in June 2016.

8.3 It will be reviewed next in June 2017.

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