

## Electricity Transmission Underground Cables - Guidance

You should be aware of the following information regarding National Grid's 400,000 volt (400kV) and 275,000 (275 kV) (1) underground cables and associated apparatus:

Our underground cables are protected by renewable or permanent agreements with landowners or have been laid in the public highway under our licence. These grant us legal rights that enable us to achieve efficient and reliable operation, maintenance, repair and refurbishment of our electricity transmission network. Hence we require that no permanent structures are built over or under cables or within the zone specified in the agreement, materials or soil are not stacked or stored on top of the cable route or its joint bays and that unrestricted and safe access to any of our cable(s) must be maintained at all times

The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).

The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's ([www.hse.gov.uk](http://www.hse.gov.uk)) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.

Our cables are normally buried to a depth of 1.1 metres or more below ground and cable profile drawings showing further details along the route of the particular cable can be obtained via the Asset Protection Team. Cables installed in cable tunnels, deeper underground, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.

Ground cover above our cables must not be reduced or increased.

If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.

For operational and safety reasons National Grid requires unrestricted access to our substation sites. We would request that any proposed changes to roads/layouts in the vicinity of our site have regard to the need to maintain access.

For proposed windfarms the distance between the cable and turbine shall be no less than the distance from ground level to maximum blade tip height plus 20metres.

For further general information see <http://www.nationalgrid.com/uk/LandandDevelopment> or request a copy of our 'Working with You' publication via the Asset Protection Team.

---

1 We also have lower voltage circuits in operation but the data on this sheet corresponds to 400 kV