



## SP ENERGY NETWORKS

### Case Study: 33kV single core repair on the Transmission circuit



The above image demonstrates a 33kv single core fault repair on the Transmission System, the cable being a 1000mm copper paper insulated lead covered single core.

When a transmission power circuit is identified in your work or development area, then ScottishPower requires to be contacted for further advice and guidance. ScottishPower recommends, no work takes place within 5 metres of a transmission cable until further advice is sought from ScottishPower. Telephone ScottishPower call centre on telephone number below to progress enquiry. When telephoning the call centre it is helpful if the following information is available:

#### Place of proposed work

- Address
- Postcode
- Outline map of the area which can be e-mailed to the call centre

**All Cable Record enquiries should be addressed to:**

#### **SP Energy Networks (North)**

Data Management  
(Correspondence)  
55 Fullerton Drive  
Cambuslang  
Glasgow  
G32 8FD

t: 0141 567 4155 or 0141 567 4455

e: Requestforplansscotland  
@scottishpower.com

**All Cable Deviation Requests /Service Alterations enquiries should be addressed to:**

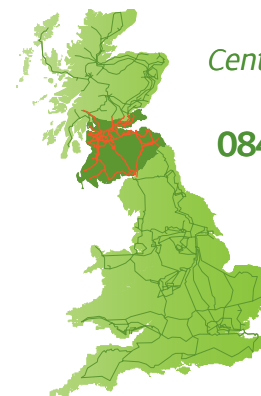
#### **SP Energy Networks (North)**

Customer Connections  
55 Fullerton Drive  
Cambuslang  
Glasgow  
G32 8FA

t: 0141 614 9997

### Emergency contact

In an emergency, or if there is any damage to SP Energy Networks cables or plant, call the appropriate number:



#### **SP Energy Networks North**

*Central & Southern  
Scotland*

**0845 272 7999**

#### **SP Energy Networks South**

*Cheshire,  
Merseyside  
& North Wales*

**0845 272 2424**



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## Case Study: Transmission cable installation/repair excavations



The above image demonstrates the size of excavations required to undertake the installation/repair of Transmission cables.

This type of cable could very well be at a depth of 1.5 metre, however the cables may be deeper/shallower than 1.5 metre. No excavations to take place around Transmission cables without prior contact with ScottishPower for specialised advice and guidance. To progress a Transmission underground cable/overhead line enquiry contact ScottishPower call centre on 0845 273 4444. Cable record enquiries are to be directed to ScottishPower Data Management section on the telephone number below.

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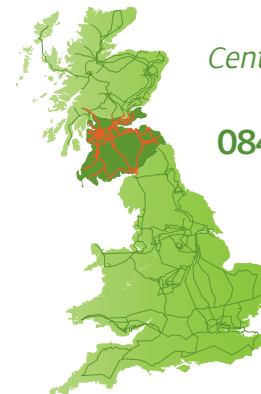
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Networks  
South**

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Merseyside  
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**0845 272 2424**



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## Case Study: Transmission cables underground marker tiles



The above image demonstrates marker tiles utilized by SP Energy Networks to protect the Transmission cable network, the marker tiles should not be removed without consultation with ScottishPower.

ScottishPower recommends that no work will take place within 5 meters of a transmission cable until further guidance/advice has been delivered. Please note: Transmission cables are crucial circuits to the electrical network no building work can be carried out on top of the cables. To progress a Transmission underground cable/overhead line enquiry contact ScottishPower call centre on 0845 273 4444. Cable record enquiries are to be directed to ScottishPower Data Management section on the telephone number below.

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**North**

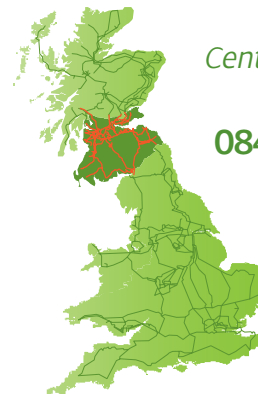
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## Case Study: Transmission gas compression cable



The above image demonstrates a Transmission gas compression cable being worked on.

The space between the steel pipe and the three cores are filled with high pressure gas. There are a few Transmission circuits still using high pressure gas, however more recently the steel pipes are utilised to contain a three core cable filled with oil. Utilising the steel pipes in this manner leaves a slight air gap between the steel pipe and the Transmission cable. To progress a Transmission underground cable/overhead line enquiry contact ScottishPower call centre on 0845 273 4444. Cable record enquiries are to be directed to ScottishPower Data Management section on the telephone number below.

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North**

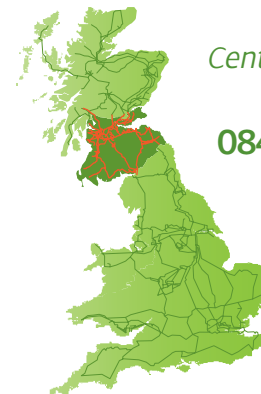
*Central & Southern  
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## Case Study: Transmission overhead lines on steel towers



The above image demonstrates a ScottishPower steel tower with overhead Transmission cables.

Under the Health and Safety document GS6, any work within 15\*metres of an overhead line on steel towers, and 9\*metre on wooden poles, the line owner requires to be consulted for safe working advice."

Please note: (\* is a minimum distance, if using plant that can reach 20 metre the barrier then becomes 35metre) Before any work takes place near to the apparatus/plant SP Energy Networks should be contacted regarding GS6 safe working advice. To progress a Transmission overhead line or underground cable enquiry contact ScottishPower call centre on 0845 273 4444. Cable record enquiries are to be directed to ScottishPower Data Management Section.

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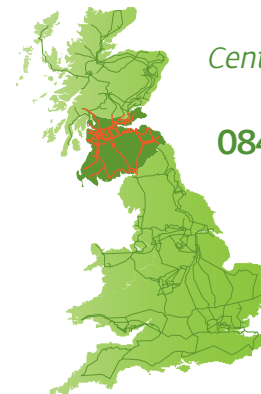
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