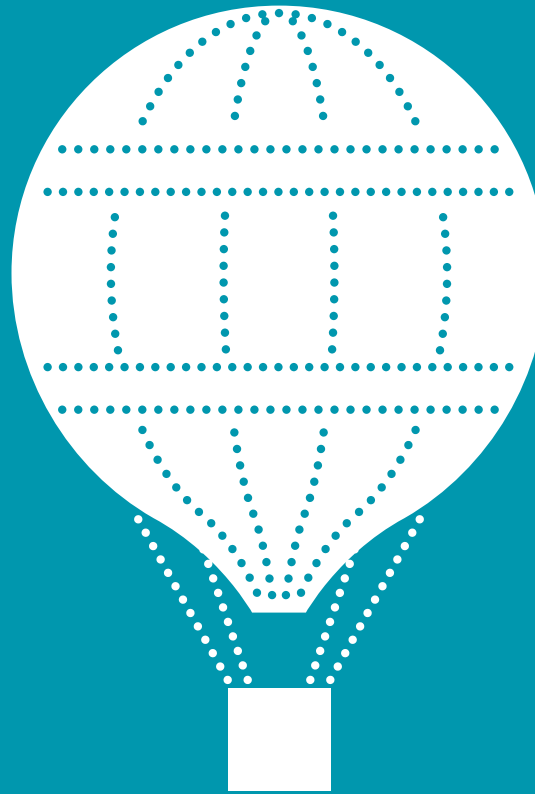


## Emergency Procedure

### What to do if your aircraft comes into contact with an overhead line:

- Never touch overhead power line conductors.
- Assume the line / wires are alive, even if they are not sparking.
- Remember that, even if they are dead, the wires can become alive again with no notice. This may happen automatically after a few seconds, or may be re-energised remotely up to several hours later if the electricity company is not aware that the line has been damaged.
- If you can, use your mobile telephone to call the emergency services. Give them your location as accurately as you can. Tell them that there are electricity wires involved and ask them to inform the electricity company.
- If your aircraft is in contact with an electricity wire or within 5 metres of a damaged overhead wire then stay inside your aircraft until the emergency services or electricity company arrive unless there is a real threat of fire.
- Once a wire is on the ground you do not have to touch it to be killed. The current may travel a significant distance through the ground and even further if the wire has fallen on a fence or other metallic objects. **BE AWARE, KEEP CLEAR.**
- If you have to get out, then try and jump clear rather than stepping off the aircraft. Then move rapidly at least 10 metres away.
- The emergency services have been briefed on how to undertake rescues in proximity of damaged overhead lines. An electricity company engineer will confirm when the power has been turned off and the rescue can proceed safely.
- If suspended from, or tangled in wires, do not allow others to approach the aircraft until it is confirmed safe to do so by the electricity company.



## Safety Information for Aviators

Light Aircraft • Helicopters  
Microlights • Gliders  
Hang gliders • Paragliders  
Hot Air Balloons

### BE SAFE, KEEP AWAY FROM ELECTRICITY OVERHEAD LINES



November 2007 Version 6

#### Communication Information

For advice, telephone your local electricity company. The telephone number is in the telephone book under 'Electricity'.

Alternatively log on to the Energy Networks Association website  
[www.energynetworks.org](http://www.energynetworks.org)



This leaflet is published by ENA  
(Energy Networks Association)  
on behalf of electricity companies.  
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There are electricity overhead lines criss-crossing the countryside. Often unnoticed, they are essential to provide electricity to the cities, towns, villages and rural communities. These overhead lines carry voltages ranging from 230 volts (domestic voltage) up to 400,000 volts.

Even domestic voltages can be fatal, and high voltage electricity can jump large gaps.

This leaflet provides a basic guide to maximise your chances of remaining safe when:

- taking off,
- flying at low level,
- landing, or
- making a forced landing in the vicinity of electricity overhead power lines.

! This information should be used in conjunction with CAA guidance and your club / company procedures.

### General key points

- Electricity systems carry voltages up to 400,000 volts. Even 230 volts (domestic voltage) can be lethal.
- **Never assume** that electrical equipment is dead, even if the wires have fallen or broken.
- Even if you are sure that the power is off, **REMEMBER** it can be switched back on at any time with warning.
- Touching electricity wires or objects / persons in contact with the wires **can be fatal**.
- Even the lowest voltage overhead lines can produce **10,000 times more current** than is required to kill a person.
- Electricity can jump gaps.
- Trees, string, ropes, suspension lines and water can conduct electricity.
- Rubber boots **will not protect you**.
- Most electricity wires **are not** insulated.
- Don't assume wires on wood poles are telephone wires.

### Before you take off:

- Make sure you know where overhead lines are in the vicinity of your departure airfield
- The CAA 1:250,000 map shows the major transmission lines, because of their height but does not show other high and low voltage overhead lines - notably those on wood poles which are more difficult to see from the air
- **Check carefully** in the airstrip guides e.g. Pooleys for notes about overhead lines near your destination airfield.
- Try and find out as much as possible about a new destination airstrip including any power lines in proximity or in the area. Consider driving there first to personally inspect it.
- **Always carry a mobile telephone** when you fly, to call the emergency services if you have to land in an emergency.
- Good eyesight improves the chances of you spotting power lines. Do you need an eye test?

### During your flight:

- If you are practising some low flying, keep a special lookout for overhead lines.
- Regularly refer to your CAA 1:250,000 map looking for electricity transmission lines in your vicinity

### Final approach and landing out:

- Remember that overhead lines can be very difficult to see from the air. Look for a row of supporting poles or pylons to indicate the route.
- **Poles could be hidden behind trees** and a 'tee off' line may come away at right angles across your intended landing field.
- If you are unfortunate to have an engine failure, amongst all the other things that will occupy you e.g. field size, shape, slope, surface, etc., **look out** for overhead lines on your final approach and within your chosen field.

### Additional Information for Gliding

Each year the member clubs of the British Gliding Association and British Hang Gliding and Paragliding Association provide around 400,000 winch / auto tow launches, almost all accomplished without incident. However, there have been incidents where the launching cable has come into contact with overhead power lines either as a result of the launching cable drifting across the power line after release or being dropped by the glider after a launch cable break.

Such incidents expose aviators and the public to a serious risk of electrocution and the interruption of electricity supplies to large areas.

### General Guidance:

- Display a map showing electricity lines near the airfield or site on your notice board, site guide or in your briefing room.
- Include the emergency telephone number of your local Electricity Company on the notice board, site guide and in your list of telephone contacts.
- Do not rig or de-rig within 10 metres of an overhead line as long objects, battens spars etc. could contact the line.

### Winch and Aerotow operations:

- Position the winch and launch point to minimise launch cable drift.
- Use an appropriately sized cable drogue parachute to minimise drift.
- Consider earthing the winch.
- If a cable should fall across an overhead line, evacuate everyone in the vicinity of the cable and winch, then inform the local Electricity Company urgently, giving a precise location.
- **Never attempt** to go near or recover a cable that is in contact with an overhead line.
- Carefully select tug aircraft landing approaches to avoid a towline catching a power line.