

# Photo mapping

Understanding the importance of electricity and electrical safety in your local community

This activity contributes to the following badges:



Scouts Local Knowledge Badge



Hikes Away Staged Activity Badge



Navigator Staged Activity Badge

**Time: First session – as required.**

**Second session –30 minutes**

## Preparation

Plan a walk around your local area, mapping a route that will pass as many places of interest as possible so the young people can see signs relating to electricity, such as those featured on the attached activity resource.

## Equipment

printed maps of local area

cameras (can be shared between groups)

pens

printer

glue

A3 paper

handouts

## 1

Before you start your walk read the safety information on page 4. Discuss the information with the group and explain why it's important.

As a group you will follow the route you've set. Each time your group sees one of the signs or a place of interest ask them to take a photo. Ensure that every young person gets a chance to use the camera.

## 2

At each location ask your young people if they think that it needs electricity. They could think about the following questions:

- Can they see any overhead power lines?
- Can they see any of the Danger of Death signs?
- Would it be a priority if there were a power cut?

Using the Sign Bingo resource ask your young people to take photos of any signs they see and note them down. Although the signs may not look exactly the same as the images we've shared, they should try to find all the different types of signs. Many of these signs are for transport links. Ask the young

people to think about the following things; what parts of the country may these transport links service? How do these transport links rely on electricity? Would you see these signs in the countryside, in towns and cities?

## 3

You will then need to collect the photos from the young people and print them out, ready for them to make photo maps of their local area.

## 4

Ask each group to draw a map of their local community or paste a smaller printed map of their local area onto a piece of A3 page. They should then cut out their photos and paste them onto the map where they found those locations or signs. If the map is too small they can stick them around the edge and draw lines to where they appeared on the map.

## 5

Looking at the images collected, the young people should mark the places that need electricity with a star and identify how the electricity gets to them.

Do they remember any overhead power lines, pylons or substations? Did they see any of the Danger of Death signs featured on page 5? What do the signs mean and why are they needed? Do they remember any of the bonus signs on the Sign Bingo?

## 6

The Priority Services Register (PSR) is a free service provided by network operators, energy suppliers and water companies to customers in need. Power cuts can be worrying, especially if you or a member of your family need electricity for medical reasons, are unwell, or have specific communication needs. Looking at the places on their maps, the young people should put a circle around the places they think will support people to sign up to the PSR. For example, the doctor's surgery.

## Take it further

Why don't your young people create posters to tell people about the PSR? They could then ask the service you have identified in step 6 to put up their posters to make sure more people can be reached and supported.










# Photo mapping

See how many of these places you find on your local walk. Each time you see one make sure you write it down. Do you think that place needs electricity? Is there any other information about that site you think is particularly important?

Location	Found it?	Needs electricity?	Notes
Doctors/hospital			
Ambulance service			
Fire station			
Police station			
Tourist attraction			
Shopping centre			
Local shop			
Bus stop			
Benches/seating			
Train station			
Local bus/train routes			
Places of worship			
Museums			
Schools/college			
Local government building			
Power lines			
Substation			

# Sign Bingo

Each time you see a sign tick it off on your Bingo card. The sign may look slightly different depending on where you live

 <p>Bus stop</p>		
<p>Bus stop</p>	<p>Roundabout</p>	<p>Speed limit</p>
		
<p>Pedestrian Crossing</p>	<p>Cycle lane</p>	<p>Motorway</p>
		
<p>Danger of Death Sign</p>	<p>Train station</p>	<p>Airport sign</p>

		
<p>Medical Centre</p>	<p>Parking</p>	<p>Stop sign</p>
		
<p>A-road</p>	<p>Hospital</p>	<p>Tourist site/information centre</p>
		
<p>Electric charging point</p>	<p>Pedestrian zone</p>	<p>Bus lane</p>

# Guidance for leaders

This activity allows your young people to get out and about in their community whilst developing an understanding of the importance of electricity by identifying electricity signage, the importance of electricity to the local community and key electricity safety messages.

## Important safety information

Dangerous situations can occur when people get too close to or make contact with electrical equipment. This could cause injuries and even give electric shocks which could be fatal. This is why the Danger of Death sign is used on substations, pylons, poles and along some transport routes such as train lines. **Stay Away – Stay Safe.**

**Do not touch equipment or try to move signage or barriers. If vandalism has occurred or the site appears unsafe to the General Public, please note details and call 105 Power cut and emergency number.**

Overhead electric lines, underground cables, substations and other electrical equipment are SAFE in normal conditions. They can carry voltages from 230 (domestic) up to 400,000 volts.

### Substations

Electricity substations are located in residential areas, to supply us with the power we have come to depend on. Substations come in different sizes depending on the number and type of properties they serve.

Access to substations should only be made by electricity company employees and their contractors. If you notice a door, fence or gate unlocked or damaged please contact your local distribution operator on the emergency number displayed on the warning sign.

**Substations are safe to the public at all times as long as you remain outside the perimeter and do not enter them.**

**If you lose any personal property – for example, a ball – in a substation, DO NOT go in to get it. Call 105, report it and they will recover your property for you safely. Do not recover any lost property yourself.**

### Overhead power lines

Overhead power lines are often uninsulated (bare) and can carry high voltages. They can look like telephone wires, but never assume this is the case. Most overhead power lines are supported by poles – look out for the Danger of Death signs.

Trees, fishing rods, tent poles, string, ropes and water can conduct electricity. Look up, look out.

### Power Cuts

In an emergency or to report any damage you can use the Power Cut and Emergency Number **105**.



## Activity guidance

Make sure your young people keep an eye out for these when they are on their walk. Here are some examples.

### Substations



### Danger of Death sign



### Overhead lines



## The electricity journey

Power lines criss-cross the country carrying electricity. They power trains, factories, our homes, schools, community buildings and light our streets. These power lines are carried high above the ground or buried under the ground.

Substations increase the voltage of the electric current. Then, along its journey, and near to where the electricity is required, more substations are used to reduce the voltage so the electricity can be used safely to power your home and gadgets.



## Priority Services Register (PSR)

The Priority Services Register (PSR) is a free service provided by suppliers and network operators to customers in need. We know this can be particularly worrying if you rely on electricity for medical equipment, communication needs or if you are elderly or very ill.

### Who can receive extra support?

- Someone who is critically ill
- Someone with poor mobility
- Someone with a hearing impairment
- Someone with a visual impairment
- Someone with mental health difficulties
- Someone living with Dementia
- Someone who relies on medical equipment that needs electricity (eg dialysis, ventilator, nebuliser or Careline)

The icons below are examples of equipment people use that are reliant on electricity:



Oxygen machine



Dialysis



Electric Bed



Stair Lift

### What support would someone on the PSR get during a power cut?

- A priority number that you can call 24 hours a day
- A dedicated team who will contact you to keep you updated during a power cut
- Tailored support if needed, such as home visits, hot meals, advice and keeping your friends and relatives updated
- In certain scenarios we may also offer a free hotel overnight and transport to the hotel
- For complex power cuts our community welfare teams provide on-site support which includes hot drinks, hot meals, a Wi-Fi connection and a charge points