

**Electricity Substation.** The towns electricity is made safe here and then delivered to homes/businesses. The water levels are starting to rise near the substation which has caused flooding to the substation.

**River.** Very heavy rain is causing river levels to rise which could cause extensive flooding.

**Secondary school** – Power cut has caused electricity in the school to go out just before lunch time.

**Old age home** near to the river is at risk of flooding. This old age home has space for 50 elderly people.

**Traffic light** failure on one of the towns busiest roads. This can cause dangerous traffic accidents to occur.

**Main road**– Some power lines have started to fall blocking the main road into the town.

**Metal factory** – The largest employer in the town with 1,500 workers. Electricity needed to operate the machines at the factory.

**Community hospital** suffering electricity failures. Several vulnerable people from the community are looked after here.



## Responding to a storm!

### Town background

- The town has a population of just over **8000** people (2000 homes)
- Located on the banks of a large river that can cause extensive flooding if water levels rise
- The town has a significant (over 40%) **elderly community**
- Last hit by a storm 10 years ago that caused significant damage to the power supply.

### Storm information

- A storm with winds of **70 MPH** hit the town 2.5 hours ago.
- The storm has caused extensive flooding across the town as the river levels increased dramatically.
- Local **energy supplies have been affected** including risks to the electricity sub-station & power lines.
- Homes are **not receiving electricity** and businesses are having difficulties connecting to the network.

### Penalties

Remember, for every minute a home does is cut from the electricity supply, a £20 penalty is received.

Therefore, for every minute homes in the town are cut off, the company receives a **£40,000** penalty.

### Extension questions!

How did you come to your decision?  
What decision was the hardest to take?

What five key things would you do to help get the town's electricity supply back to normal and help prevent large scale disruption?