

# Northern Powergrid: Electricity Distribution

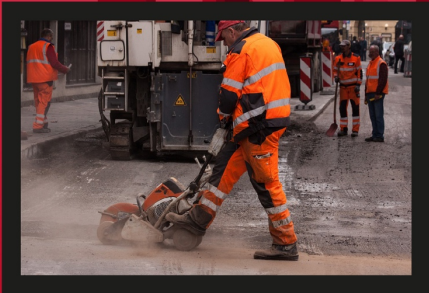
[www.northernpowergrid.com/education](http://www.northernpowergrid.com/education)



# Starter

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Discuss with the person next to you what environmental issues these images are showing.






# Starter

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The environmental issues shown in these images include:




Deforestation/  
habitat destruction



Fossil fuels/  
carbon pollution



Water pollution



Noise pollution/  
disruption



Visual pollution

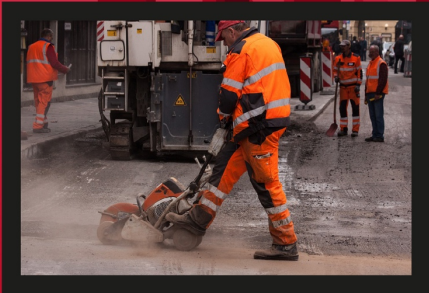


Waste

# Starter

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Did you come up with any more?





# Life-cycle assessment:

Electricity, from production to use.



Production

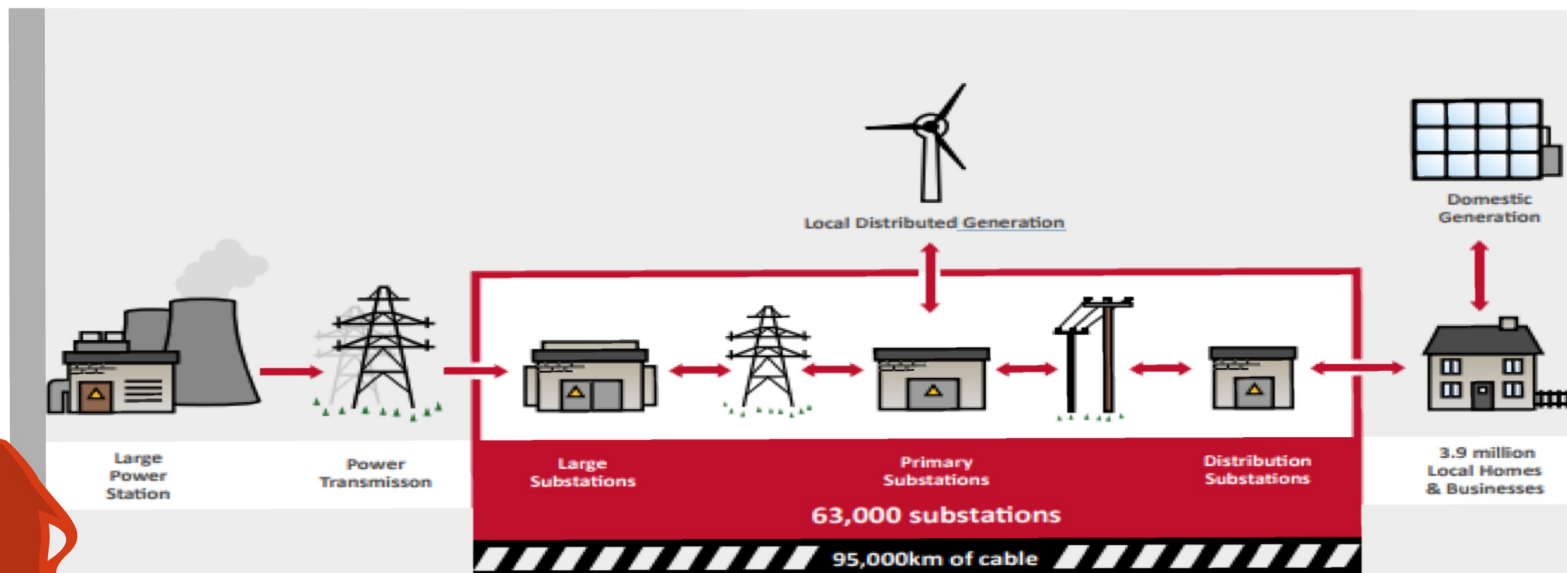


Distribution



Use





Where we fit in the electricity industry



# Where do Northern Powergrid come in?

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Northern Powergrid is an electricity Distribution Network Operator (DNO).



# Task

Work in groups to consider:

- Possible impacts on the environment
- How these issues could be minimised

*For each of the three stages of the electricity life-cycle.*



Production



Distribution




Use





You can use these  
prompts to help you:



Deforestation/  
habitat destruction




Fossil fuels/  
carbon pollution



Water pollution



Visual pollution



Noise pollution/  
disruption



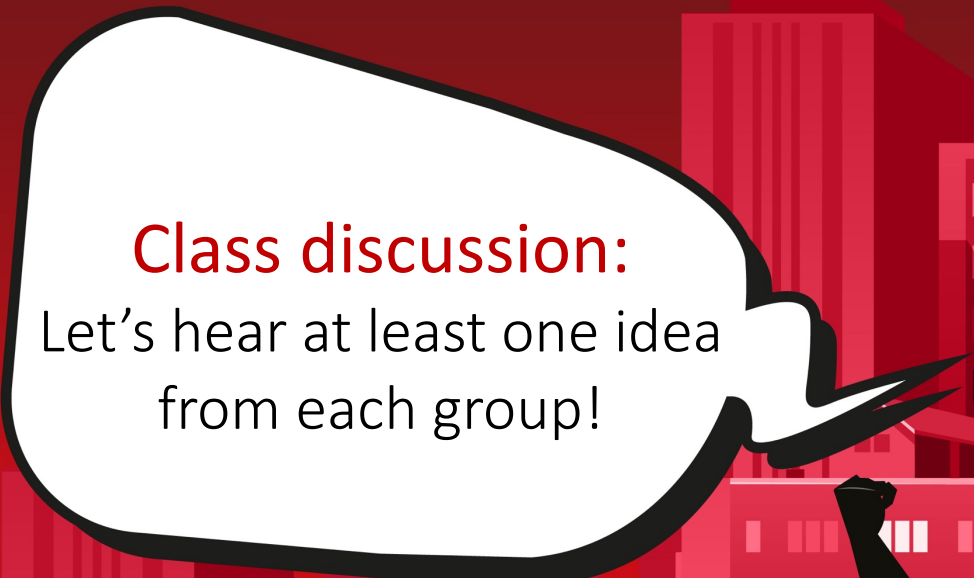
Waste

## Swap and share!

Switch places with another group and add to their page using a different colour.





A white speech bubble with a black outline, containing text. The bubble has a tail pointing towards the female superhero on the right.

**Class discussion:**  
Let's hear at least one idea  
from each group!





## Extension:

Learn more about  
careers at Northern  
Powergrid.







# Meet Paris

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Paris  
Design Engineer

Paris joined Northern Powergrid's Graduate Training programme in 2013. Paris had the opportunity to undertake various rotational placements across the organisation before joining the Design section in 2014. On a day-to-day basis, Paris is working on various asset reinforcement and new connection schemes.






## How does Paris' work benefit the environment?

Paris has to measure the “behaviour and impacts” of a number of technologies as part of his job; what sort of thing might he be looking for?

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Paris is also responsible for leading and managing two innovation projects that monitor the behaviour and impacts of a number of Low Carbon Technologies (LCTs).





Battery Capacity [%]

ac-solar-production

ac-consumption

capacity

in the morning

in the evening load

Can you think of 3 skills Paris might need in his job?

“Innovation projects” allow businesses to explore new ideas and ways of working and see if they work/improve/add value on to what they were doing before. What else might an electricity distributor want to innovate?

# Next Steps

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In your daily lives, consider how much impact you have on the environment. Could you make at least 3 conscious changes that would have a positive impact on your environmental footprint?







Well done!

