STEM EDUCATION PROGRAMME

Extending Supply Session

Joe Bloggs

Wind Turbine Engineer

sse | For a better world of energy

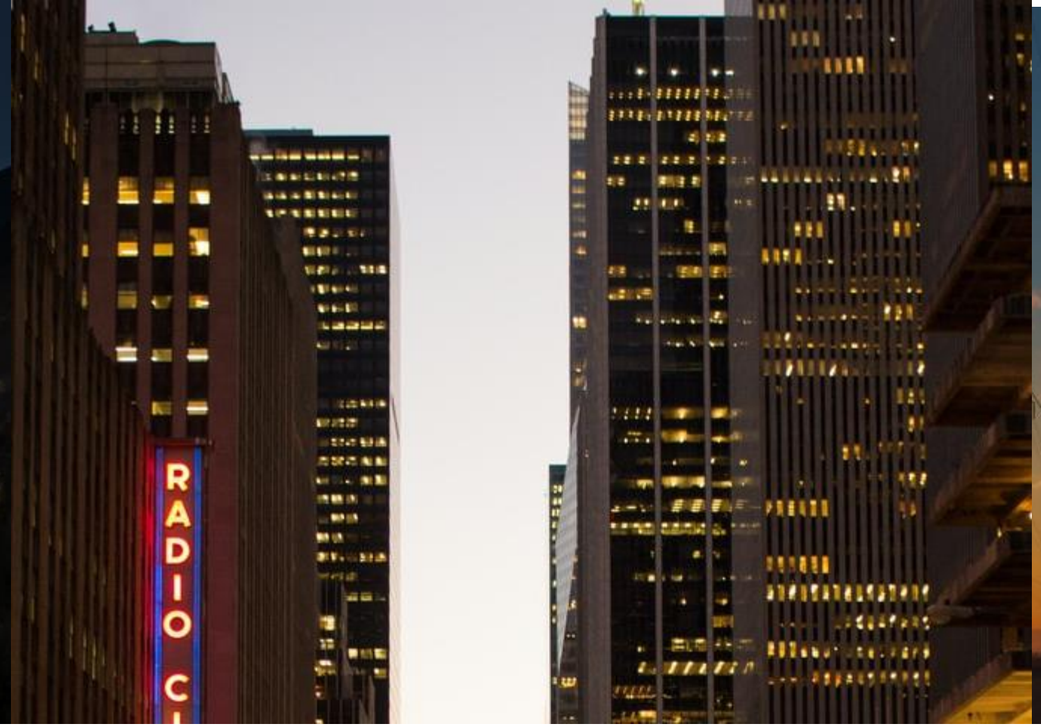
SSE Video

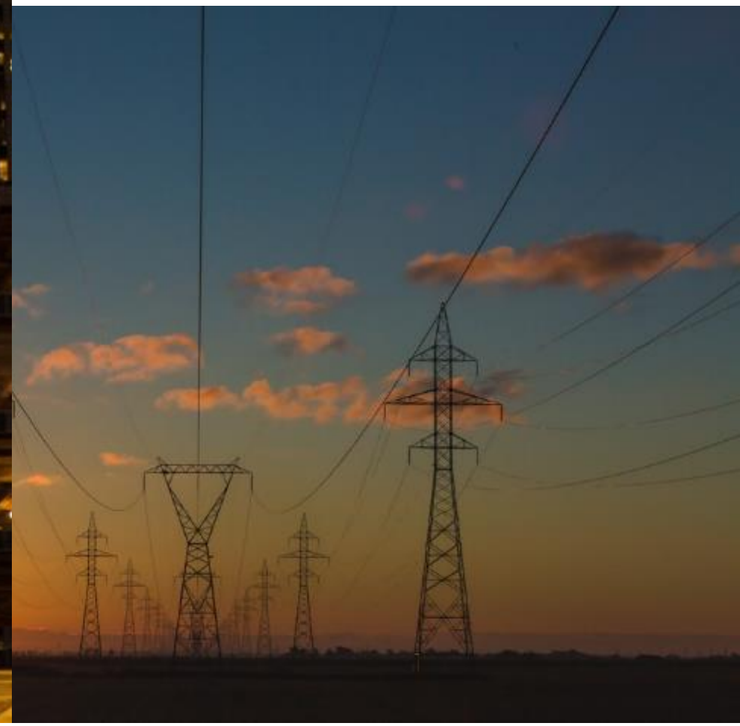
NO WRONG PATH

Name
Role

When I left school…	My path…	Where I am now…

TRANSMISSION AND DISTRIBUTION





What do you think are the most important steps needed to achieve net-zero by 2050?

The journey of power

Transmission: Generation source is connected to a gird connection, transmitting power into the National Grid

Wind comes across the land and turns a turbine / sun shines on solar panels / coal is burned in a power station/hydro turbines generate power

National Grid send the power out across the country and down into local area DNOs (Distribution Network Operators)

DNOs (for example SSEN) then provide customer and business connections into sites and buildings

The connections then feed through smart meters and distribution panels and into our homes, schools and businesses

We switch the lights on

Transmission vs Distribution

Transmission

SSEN Transmission’s first priority is to provide a **safe and reliable** supply of electricity to the communities it serves.

From the deep waters of the North Sea to high mountains of the Highlands, the power from onshore and offshore wind-farms, hydro power stations and other generation assets is **moved across a vast network** of underground and sub-sea cables, overhead-lines, wooden poles and steel towers to millions of customers across the UK.

This system supports both the **UK and Scottish Governments' net zero emissions** targets whilst meeting the needs and expectations of stakeholders.

Transmission vs Distribution

Distribution

Powering **3.8 million** homes and businesses in communities across central southern England and the north of Scotland, SSEN keeps **customers connected** whilst developing the flexible electricity network vital to achieving net zero.

Scottish and Southern Electricity Networks (SSEN) Distribution is responsible for ensuring a safe and reliable supply of electricity to all of our customers in communities across its network.

By enabling a smarter, more resilient electricity network we are ensuring local communities from the Shetland Islands to the Isle of Wight, and Portsmouth to Aberdeen **continue to receive the power they need, both now and in the future.**

Roles within Transmission & Distribution

SSE Recruit for a wide range of skills, specialisms and expertise.

Engineering and Technical

SSE have big ambitions to build a better world of energy for the future and we're looking for the very best talent to help us do to this. Engineering is a core specialism at the heart of these goals.

IT and Digital

From emerging technologies to data and analytics to cyber security – they power our growth and enable it to generate value, while keeping it secure.

Corporate Functions

Our Corporate Teams are made up of a wide and diverse group of people and specialisms all working towards our goal: to be a leading energy provider in a low-carbon world

Roles within Transmission & Distribution

SSE Recruit for a wide range of skills, specialisms and expertise.

Commercial and Project Management

We look to create future growth through new project development, strategic and financial partnerships and joint ventures, to ensure we remain a leading energy company in a low carbon world.

Customer Service

A passion for service is all you'll need, we'll provide you with excellent on-the-job training and plenty opportunities to develop and grow. Many of our management team began their SSE journey here.

Group activity – Key Skills!

Below are some of the key skills SSE look for when hiring new talent! Take a look and think about how you can demonstrate some of these skills whilst working in your groups.

- Drive
- Resilience
- Social Adaptability
- Safety
- Collaboration
- Ownership
- Learning Ability

Group activity – Connecting the network!

You will be assigned one of three key roles to help transmit and distribute energy to a new housing estate on the Isle of Wight. The job roles are:

(1) Engineers – working out the most appropriate route from power source to substation
(2) Finance – calculating the cost of the project
(3) Customer Relations – working with residents impacted by the project.

Each group will have a problem/scenario to solve based on the information provided on your handouts. Each group will have to do **two** things:

(1) Solve the problem and report back
(2) Based on your groups job description and requirements, decide which site to build the substation on.

Group activity – Reflection

Spend a few minutes reflecting on these questions:

- What was challenging/easy about the activity?
- How did you work as a team to get the job done?
- Are you happy with the outcome?
- Are you interested in finding out more about this job role?

Key SSE skills:

- Drive
- Resilience
- Social Adaptability
- Safety
- Collaboration
- Ownership
- Learning Ability

Meeting SSE employees – Megan, Project Engineer

What does your job at SSE entail?
Currently I am a 23 year old project engineer working in our network construction team delivering a wide range of projects from substation replacements to installing new automation devices on the network.

What do you enjoy most about your role?
We are doing something that is worthwhile, everything we deliver is ultimately helping serve our customers in a more sustainable and reliable way.

What advice would you give to young people considering an a career at SSE?
I would 100% encourage them to do so, through any channels available. It is a great company to work for and there are endless opportunities once you are in the door. It really is a job for life!

Meeting SSE employees – Gareth, Jointer (Apprentice)

What does your job at SSE entail?
Jointing both low voltage and high voltage cables, locating faults and repairing them and seeing the joy on customers faces when all the lights come back on! Being able to work on the live low voltage electricity network.

What do you enjoy most about your role?
All of it, I'm constantly learning and I enjoy jointing the cables!

What advice would you give to young people considering an apprenticeship?
Apply! The apprenticeship itself is the best in this sector and if your very hands on, then apprenticeships might be the best route for you! Combining college and hands-on training/work is a great combination, and at the end of the apprenticeship, there's potential for a lifelong career.

Meeting SSE employees –Customer Relationship Manager

Q&A with customer facing role inserted here (image required too)

WHAT'S NEXT?

School Leaver opportunities

School Leaver opportunities

Which opportunity is right for me?

Apprentice and Trainee Engineering Programmes

For people who want to work towards a formal qualification in energy. Our apprenticeships have no minimum entry requirements and are open to all.

Graduate Scheme

Shape the career you want. We have opportunities in Engineering, Business and Commercial, IT and Finance.

Summer Placements

We regularly take on undergraduate students for placements to give them a taste of life at SSE!

HOW TO APPLY

Go to our careers website - www.sse.com/careers – or use the QR code to discover everything you need to know about applying for an apprenticeship, the interview process and the programmes themselves.

New vacancies will be announced in early 2021!

Interview tips - Video

HOST FEEDBACK LINK

Host Feedback

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