

Slough Multifuel Combined Heat & Power Plant Introduction



Aims of this exhibition

- To introduce the Slough Multifuel Combined Heat and Power (CHP) project
- To explain the context behind it
- To outline the benefits of the new power station
- To offer an opportunity to talk to the team directly and build your feedback into the project at an early stage
- To enable our team to understand any concerns you might have

About SSE

SSE is one of the UK's leading energy companies. Our core purpose is to provide the energy people need in a reliable and sustainable way.

We are involved in the generation, transmission, distribution and supply of electricity; energy trading; the development of major renewable energy projects; the extraction, storage, distribution and supply of gas; electrical and utility contracting; data centres and telecoms.

SSE is the UK's largest non-nuclear electricity generator with over 12,048MW of electricity generation capacity in total (UK and Ireland) from a diverse portfolio of power stations.

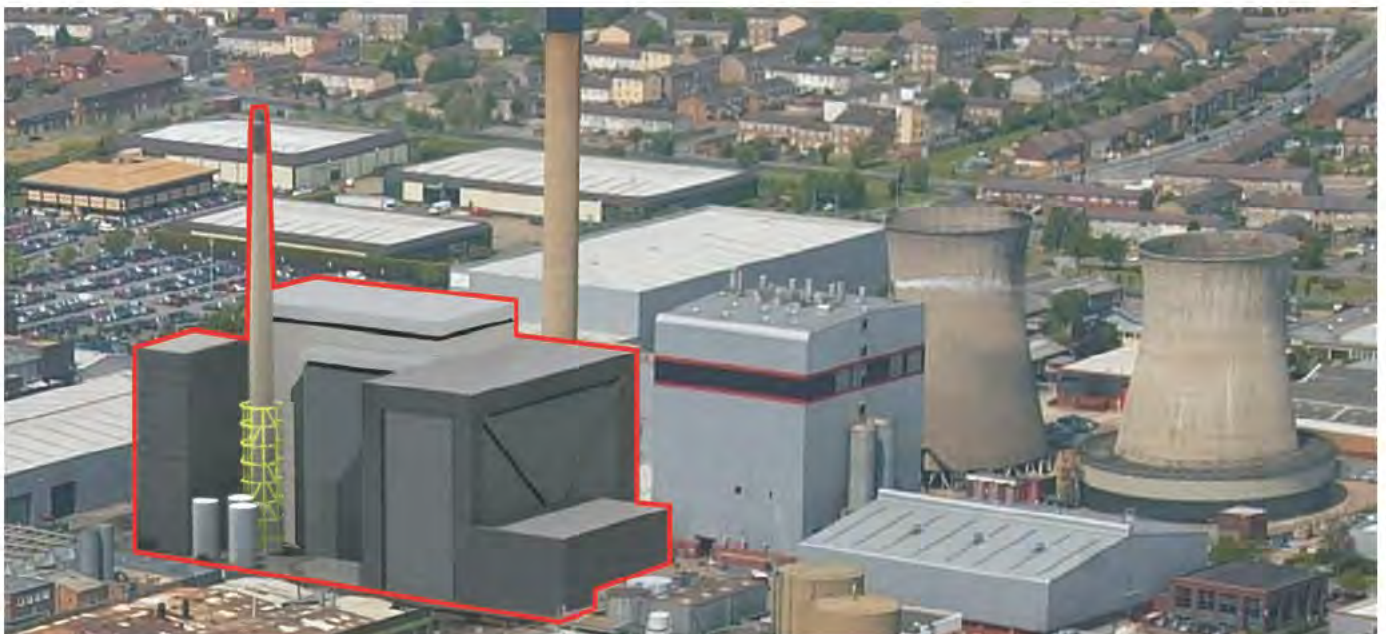
We are also the leading generator of electricity from renewable resources with a total generation capacity of 3,208MW.



Other parties

Slough Borough Council will be responsible for determining the planning application for the proposed combined heat and power plant.

URS is conducting an Environmental Impact Assessment (EIA) on behalf of SSE as part of the planning application process.



Slough Multifuel Combined Heat & Power Plant



The proposal

Slough Heat and Power (SHP) currently operates combined heat and power (CHP) plants at its Edinburgh Avenue site on the Slough Trading Estate. The SHP site is already used for generating electricity and produces heat which is distributed via a network around the northeast area of the Trading Estate. SHP's main sources of fuel are waste wood chips, biomass and waste-derived fuels.



SSE's preferred option is to use the existing chimneys and cooling towers, subject to the findings of the EIA.

The development will require the demolition and removal of various gas fired plant which have reached the end of their natural working lives.

The proposed new plant is expected to use up to 300,000 tonnes of waste derived fuels (WDF) each year and will have a capacity to generate up to 40MW of low carbon electrical output.

The new plant is expected to supply up to 20MW of heat to the local network.

Together, this is enough to power approximately 75,000 homes*.

*Based on Ofgem average domestic consumption of 3300kWh/annum

The proposed new Multifuel CHP

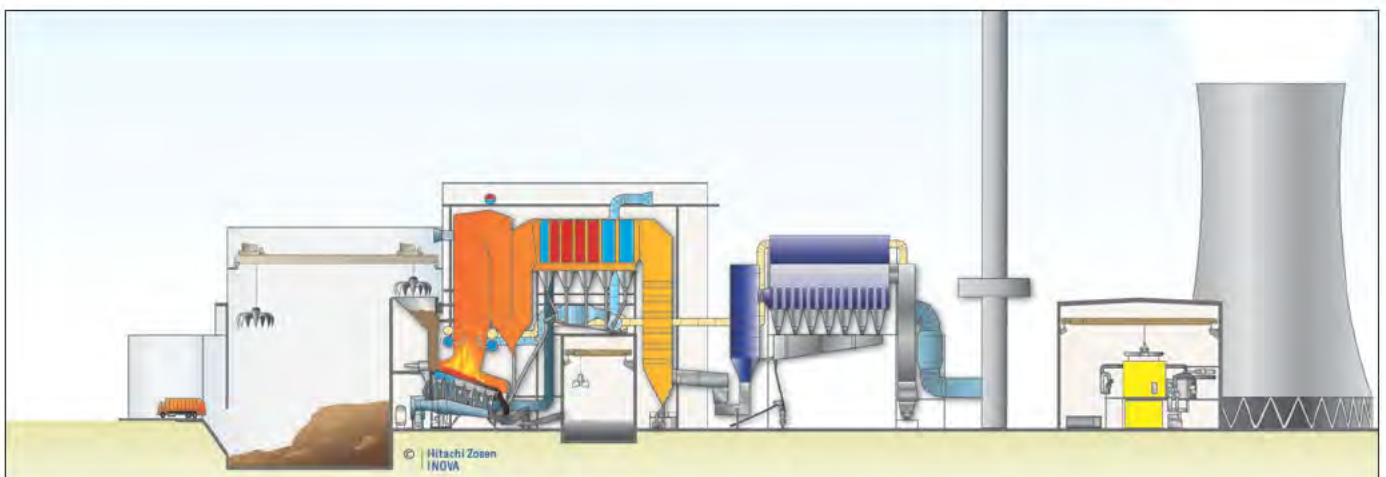
SSE is intending to submit a planning application to Slough Borough Council for a new Multifuel CHP plant, situated inside the existing SHP site boundary, to make use of the ever increasing range of low carbon fuel sources available.

The new plant will occupy around a fifth of the existing SHP site, with new buildings no higher than the existing cooling towers.

The fuel

The new plant will use a range of non-hazardous, waste derived fuels that will be delivered to the site ready to use. These low carbon fuels will be Solid Recovered Fuels (SRF) and Refuse Derived Fuels (RDF) which come from processing municipal solid waste and Commercial and Industrial Waste. Waste wood chips could also be a source of fuel.

No waste processing will take place on site.



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The application process

SSE must apply to Slough Borough Council for planning permission for the new plant. As part of this, an Environmental Impact Assessment (EIA) will be completed. This will look at all potential effects on the environment associated with site preparation works, construction and operation of the new power station.

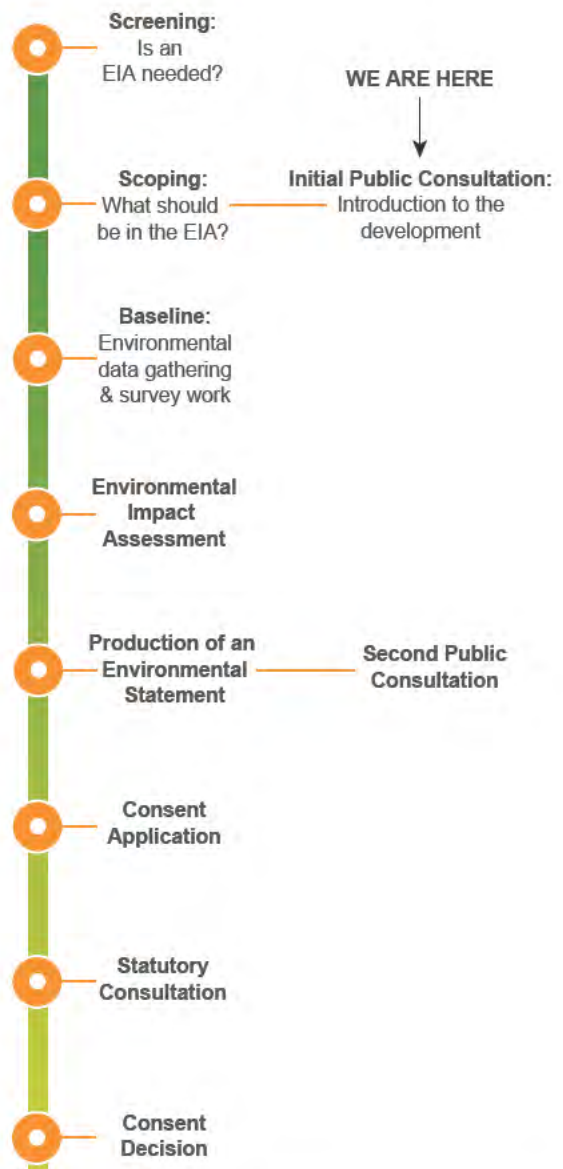


SSE proposes to assess the impact of the new power station in relation to the following environmental effects:

- **Air Quality** - looking at the effect of the additional emissions of the new plant, in particular the effect on the nearby Air Quality Management Areas;
- **Ecology** - considering the effect on the local wildlife including birds, as well as vegetation;
- **Ground Conditions** - this will assess the effect of disturbing potentially contaminated ground within the site;
- **Water Resources** - looking at the effect of altering the site drainage and the effect of any additional cooling water demand;
- **Landscape and Visual impact** - this will include projected images of the new plant so that it can be assessed in relation to its surroundings;
- **Noise** - assessing whether the new plant has the potential to cause a noise nuisance;
- **Traffic and Transport** - assessing the effect of construction traffic and fuel deliveries on the local roads.

If any of these are assessed to have a significant adverse effect, measures and mitigation will be suggested to reduce that effect. The assessment and mitigation will be described in an Environmental Statement that will accompany the application to Slough Borough Council.

URS EIA Timeline



Slough Multifuel Combined Heat & Power Plant



Frequently asked questions

What is a multifuel plant?

Our proposed plant will be designed to generate heat and electricity from a range of low carbon waste derived fuels. It will work in a similar manner to the existing SHP power station, where solid low carbon waste-derived fuels are currently used to raise high temperature steam which is then used to generate electricity.

Is this just a waste incinerator?

No. Non-recyclable waste will be converted to a fuel at a number of facilities elsewhere. These fuels will be produced to a specification before arriving at SHP to produce electricity and heat.

Is this a substitute for recycling?

No. We only use fuel that has already been through a process elsewhere to extract recyclable material.

Will you convert hazardous waste to energy?

No.

Will you convert medical waste to energy?

No.

How will the fuel arrive at site?

The fuel, which has already been processed elsewhere to extract recyclable materials, will be delivered to site in enclosed lorries. It will then be unloaded in an enclosed building with air extraction to control any odour.

What will be done about odours from the new plant?

The planning permission and environmental permits required to build and operate the plant will set strict limits for all factors, including odour, to ensure that there is no unacceptable impact on local people or the environment.

Will there be a lot of smoke produced?

No. There will be a substantial investment in environmental control equipment. The regulatory regime and operating licence will not permit smoke, although there may be a visible plume resulting from condensing water vapour during colder weather.

How long will construction take?

Subject to planning permission, we expect construction to take approximately three years.



How noisy will the construction be?

There will be strict limits on noise levels during construction activities. In addition, the new plant's location inside the existing SHP site will help serve as a screen to minimise the impact of any construction noise.

What will the local impact be from construction traffic?

We will operate a process of strict traffic management. This will minimise the effect on the local community, with restrictions on days, times and enforcement of the cleanliness of vehicles leaving site.

Will there be any disruption to local/neighbouring property during construction?

We will look at ways to minimise any disruption that may be caused during construction, and these measures will be described in the Environmental Statement.

Will any permanent jobs be created?

Yes. There will be some involved in transport and fuel preparation as well as supporting existing jobs at SHP, including local businesses which provide services to SHP. The numbers will not be established until we have completed our full project evaluation.

Will the development create any jobs during construction?

The construction phase will require the creation of approximately 200 jobs. Recruitment will be carried out by the main contractor on a subcontracting basis. As part of the pre-construction programme, SSE and the main contractor will liaise with the Council to host a 'Jobs Fair', where local businesses will be able to learn more about the opportunities on offer.

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Your input

You are invited to submit comments or concerns on the general proposals now.

We will hold a second public exhibition once the EIA process has been completed, prior to submission of the planning application, to update the local community and interested parties on the final proposal.

Once the application is submitted to Slough Borough Council, there will be a further opportunity to comment on the proposal by submitting comments as part of the statutory consultation period for the application.

How do I get my say?

We are keen to receive comments and views from the local community and interested parties on the initial proposal outlined.

Please also take the time at the exhibition to speak to our project team and raise any questions or concerns that you may have at this stage.

Comments can be submitted as follows:

- **At the exhibition today** - Please take time to speak to our project team and raise any questions or concerns you may have at this stage.

You can also complete a comments form and place it in the box provided.

- **By post** - Complete a comments form and post it to our Liaison Manager (details opposite).
- **By email** - Complete a comments form and email it to our Liaison Manager (details opposite).

Comments forms and information can be downloaded from the project website (details opposite) or posted out to you by our Liaison Manager upon request.



Please make your comments as specific as possible in order to help us assess them in relation to the proposal.

The closing date for comments is:

10th January 2013.

Contact details for the Project Liaison Manager are as follows:

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