

1. Does Aura Power have any connections with IGP Solar the company who were proposing the Gas engine generators on Reach Road?

No

2. Does Aura Power have any connections with project Staunch the joint battery backup and diesel generator development in Newcastle under Lyme?

No

3. The main companies involved in the Bristol Battery Storage Project were Hazel Capital, Noriker Power, Aura Power and Metka-EGN. What were each of their roles in the project?

Hazel Capital – Funder

Noriker Power - Operator

Aura Power – Developer

Metka-EGN – EPC Contractor

4. Will the same Bristol Battery Storage Project partnerships be involved in the Burwell project? If not who will take on their roles?

There are several funders and EPC contractors who could be involved in this project, but it is too early to say for certain the eventual parties.

5. Who will manage and maintain the plant once commissioned?

As above.

6. What are the guarantees that the specified essential maintenance, servicing and safety checks will be carried out throughout the life of the installation.

In order to comply with Insurance policies, the project must meet all the essential servicing and safety checks.

Is it correct that because the industrial cells / batteries to be used in this installation do not have the same size restrictions as consumer batteries, the issue of short circuits, overheating and fire caused by separator metal contamination should not arise?

Correct – we have a separate fire report see attached. Utility scale batteries operate in a much more controlled environment, with more sophisticated control,

monitoring, isolation and fire suppression systems in place than batteries typically found in consumer electronics.

7. There are ethical issues involved in the manufacture of Lithium Ion batteries. Lithium mining can have a severe adverse environmental impact. Cobalt is a major component in Lithium Ion batteries and there is widespread use of child labour in the Democratic Republic of the Congo where children as young as seven work in appalling deadly conditions. The DRC is a major supplier of Cobalt for Lithium Ion battery manufacture? Some companies are more concerned than others regarding the sourcing of basic materials. What company will be the manufacturer of the batteries for the Burwell Development?

At this stage we don't know who the supplier of the batteries will be but we can reassure you that it will be a reputable Tier-1 supplier.

8. For this application Lithium Ion batteries are considered to be at the end of life when they drop to 70/80% of the original charge capacity. How will these batteries be disposed of?

It is important to note that the batteries in the facility will be carefully managed to optimise both performance and expected lifetime. The battery cells will be replaced and either repurposed or recycled according to the legislation that is already in place.

9. Lithium Ion cells / batteries operate at maximum efficiency and safety within a defined temperature range. Will the installation have a temperature conditioning system within each battery pack enclosure or will forced air cooling be used? In either case what is the expected noise impact and how will it be minimised for the surrounding area?

The battery containers will be climate controlled to maintain the optimum operating temperature for the batteries. A comprehensive noise study will be submitted as part of the planning application that includes a background noise study demonstrating the impact of noise on nearby sensitive receptors. Following consultation with RADE Burwell, we have agreed to locate the air conditioning units facing west to minimise their impact. Furthermore, we will erect an acoustic fence around the site to further reduce any impact.

10. Will the installation cause any increase in the 50Hz transformer hum?

The noise study that will accompany the planning application evaluates the impact of the transformers at the site on nearby sensitive receptors.

11. If the battery management system indicates overheating and / or fire how is this dealt with?

Individual battery cells are monitored and can be automatically isolated before they pose risk of catching fire.

12. If fire is confirmed are there automatic integral foam or water extinguishers or is the fire allowed to burn but remain contained within the outer container with the cooling switched off and power disconnected?

The fire suppression system is automated so in the unlikely event of a fire the system will be isolated and the fire extinguished.

13. How are Fire and Rescue and the installation operators advised of the fire?

The system is monitored 24/7 by an operating control centre which will alert the local fire service.

14. Will Fire and Rescue be made aware of the particular hazards of a fire in the installation?

Yes

15. In the unlikely event of a fire occurring what pollutants would be released into the atmosphere?

The containers are sealed units so in the event of a fire any pollutants would be contained within the unit.

16. What are the Lightning Strike precautions?

If deemed necessary, the site could have lightning protection rods fitted. However, much larger metal structures (two substations) are adjacent which would minimize any risk of lightning strike to the site.

17. Are the Container units bought in, off the shelf, completely self-contained integrated units with fitted battery racks, individual AC DC AC conversion and battery management systems etc.? If so who is the Manufacturer and what are the product details?

This is subject to confirmation as each manufacturer takes a slightly different approach. The most common approach is to customise the containers in the factory (i.e. battery racks, doors, fire suppression equipment, lighting etc) and then install the battery cells once the container is positioned on site. The primary reason for this

approach is that it prevents the batteries being damaged in the container while it's transported to the site.

18. Or are the units in house design? If so who is responsible for design and what experience do they have with battery backup systems?

The units will be designed and specified by the battery or EPC supplier. Broadly speaking they are off-the-shelf systems with some customisable features.

19. There are concerns with the physical positioning of the installation. In the proposed position it would have the stream on three sides and may have a detrimental effect on wild life in and around the stream. Is it necessary to have the installation so close to the stream?

The planning application includes an ecological survey and report that evaluates the impact of the developments on the ecology of the local area. We have agreed to set the development back further from the surrounding watercourses to mitigate any impacts. Furthermore, the site will be screened visually by native plant species which will provide additional habitat for wildlife.

20. How much traffic will be involved in the construction of the installation and how long will it take to commission the installation?

A detailed traffic management plan including the type and number of vehicles expected during construction and operation will be included with the full planning application.

21. What additional traffic will there be to the site when it is in operation?

The site is remotely operated once operational and there will be only occasional visits for maintenance.

22. Will this installation reduce the likelihood of there being another application for the siting of a Gas Generator System in the village?

We believe the development will reduce the likelihood of a gas generator connecting by securing much of the remaining feasible grid capacity.

23. The National Grid holds Grid Capacity Auctions sometimes known as Subsidy Auctions. Capacity Providers who are successful in the auction are awarded Capacity Agreements. These agreements appear to be for a minimum of one year in advance. If a Capacity Award is not held can Aura explain the contractual arrangements for the operation of the Burwell installation, and how it will have a sustainable income?

There are a number of revenue streams that will provide income for the project including the capacity market.

24. Will the operators of the Burwell Battery Storage Scheme be bidding for a Capacity Award?

The project needs to have planning consent before it can bid into the capacity market. Some funders look for capacity market contracts, others operate on a pure merchant model.