**To receive a report on solar PV and consider any actions and associated expenditure**

1. Solar Panels, battery storage and Charger point for Isambard House

The Service delivery department have looked at the option to install solar panels with a battery storage system and EV vehicle Charger to the building. This would also have a management system to monitor the generated electricity, storage and being able to sell electricity back to the grid.

Selling back to the grid the Town Council will generate £0.15p per kWh but will depend on the supplier. This is based on some assumptions, but the generation figures will be accurate.

The EV Charger would use power from the system so not impacting on any extra cost for the building.

The solar panels would be fitted to the trackside part of the roof allowing maximum sunlight. Management unit will fit either into the electrical cupboard or next to the battery storage unit placed in the extension room. The EV Charger will be to the external corner facing the road in the car park area.

Blow is one quote provided by a recommended contractor for a guide at this point. This will be subject to change depending on time of instruction and available funding.

**Solar PV, Battery Storage & EV Charger**

Supply & Fit the following to Isambard House also known as Saltash Train Station.
35No. 440w JA Solar Bifacial Solar Panels (15.4kWp) Mounted on a K2 Mounting System and using Genius Slate Flashing Kits complete with 1No. 10.5kW Fox ESS H1 Hybrid Inverter & 1No. Fox ESS ECS4800 Leader Battery & 4No. Fox ECS Follower Batteries giving a total of 23.3kWh of Battery Storage.
Option for Bird Blocker to be installed around Panels.
Includes Scaffolding, Installation, Related Electrical Works, G99 Application & Submission to National Grid, NICEIC, MCS & Building Control Certification & IWA Insurance Backed Guarantee.
Option for Rolec Zura 7.3kW EV Charger complete with Monta Back-Office Software to manage users and accept payments.
Monta requires a monthly subscription of £7 per month per charge point.

| Description | Quantity | Unit Price | VAT | Amount GBP |
|---|---|---|---|---|
| 15.4kWp Solar PV with 23.3kWh of Battery Storage | 1.00 | 23,448.70 | 20% | 23,448.70 |
| Optional Bird Blocker for Solar Panels | 1.00 | 580.00 | 20% | 580.00 |
| Rolec Zura 7.3kW EV Charger complete with Monta Back-Office Software | 1.00 | 1,475.00 | 20% | 1,475.00 |
| | | | Subtotal | 25,503.70 |
| | | | TOTAL VAT 20% | 5,100.74 |
| | | | **TOTAL GBP** | **30,604.44** |

Blow is the technical data supplied by the contractor of the management and equipment to be installed.

Management

file:///C:/Users/ian.bovis/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/C8ACFRJ0/ACD%20Electrical%20Monta%20Information.pdf

EV Charger

file:///C:/Users/ian.bovis/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/C8ACFRJ0/EVZD-V02-R0%20Zura%20Data%20Sheet.pdf

Solar Panels

file:///C:/Users/ian.bovis/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/C8ACFRJ0/JA%20Solar%20JAM54D41-435_LB%20Solar%20Panel%20All%20Black%20Datasheet.pdf

Battery Storage System

file:///C:/Users/ian.bovis/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/C8ACFRJ0/ECS-4800-Datasheet-12.09.pdf

Inverter details

file:///C:/Users/ian.bovis/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/C8ACFRJ0/EN-K-Series-Datasheet-V1.7-7.7.pdf

Members will need to consider the time of year and time it will take to arrange the ordering plus fitting of the system as this may cause disruption to potential room bookings and use of the building. The café may be effected when installing the roof solar panels with scaffolding.

The contractor works to a 4-6 weeks lead time to start work for receiving the contract agreement.

The installation would be completed in approximately 2 weeks.

To register they system the contractor will send in a G99 Application to National Grid prior to the installation to gain permission to connect to the grid.

The National Grid will give the permission (not had one refused) but may impose an ELS (Export Limitation Scheme) where they look at the capacity in the area and look at the inverter capacity, in this case 10.5kW and might impose a 5kW Export limit. This would mean that after any self-consumption of the generation and after the battery storage is full, if then the system is generating 9kW, the inverter would only let 5kW to be exported to the grid.

After the installation we then send in a G99 A3-2 to the National Grid and then they send us a Confirmation of Connection Letter which we will require to sell back to the grid.

They will also register with MCS (Micro Generation Certification) and provide us with a certificate which will also have to be provided to our supplier to sell back to the grid.

We also notify building control of the installation as Solar PV is deemed “Permitted Planning Rights”

In brief they notify the following,

- National Grid
- MCS
- Building Control

Members to note that current funding for the installation is not available for this year. This would need to be considered within the budget setting process for the year 2025/2026.

**End of Report**
**Service Delivery Manager**