

DESIGN AND ACCESS STATEMENT
PROPOSAL— INSTALLAION OF BATTERY AND ASSOCIATED CAR CHARGING SPACES WITH SOLAR
PANELS AND SAFETY BARRIER AT Y TWYNI (TEMPORARY TEACHING SPACE)
BAY CAMPUS, SWANSEA UNIVERSITY.

CONTENTS

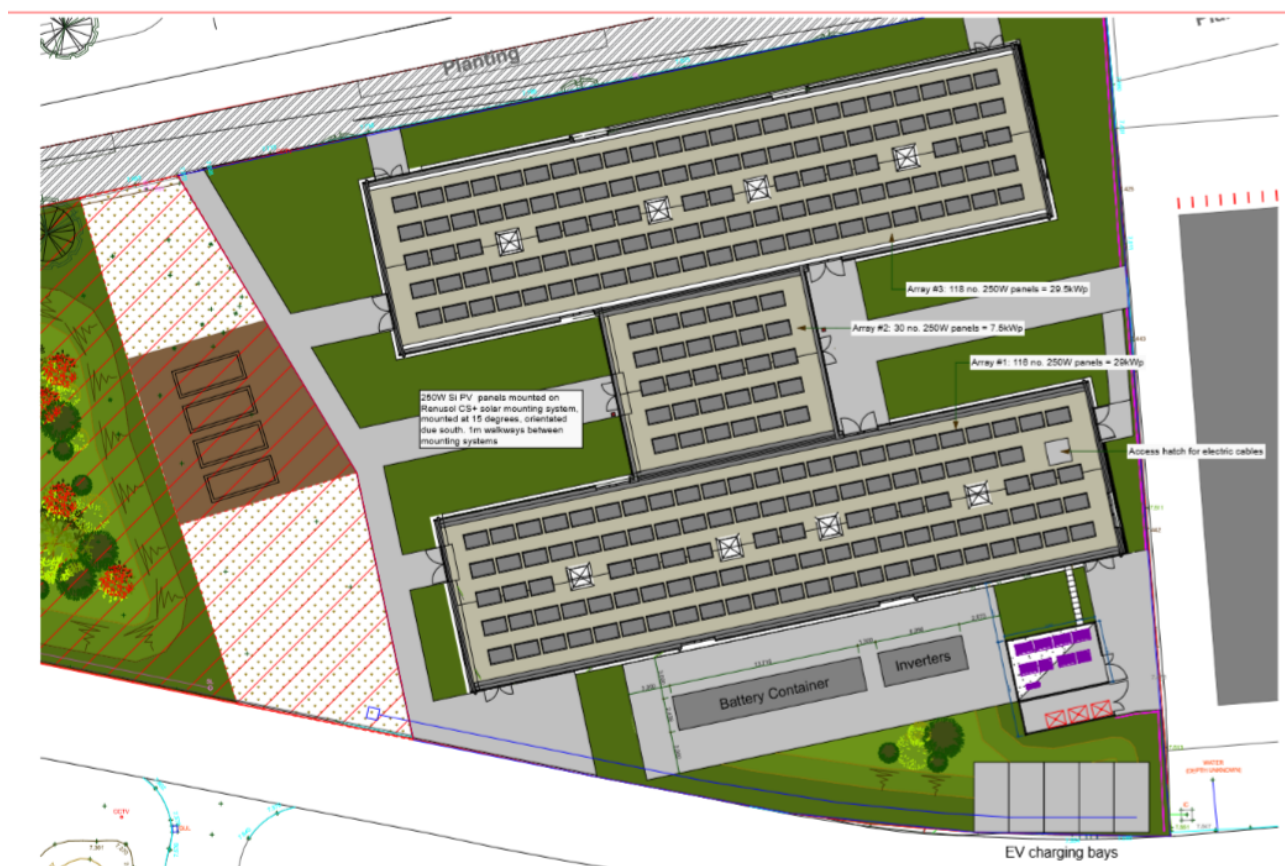
1. Background	Page 2
2. Function of the building	Page 2
3. Design Concept	Page 2
4. Siting, Layout and Form	Page 3
5. Massing	Page 9
6. Access	Page 9
7. Context Analysis	Page 9
8. Policy Context	Page 10
9. Response to the objectives of good design	Page 11
10. Environment Sustainability	Page 11
11. Movement	Page 11
12. Conclusion	Page 12

1.0 Background

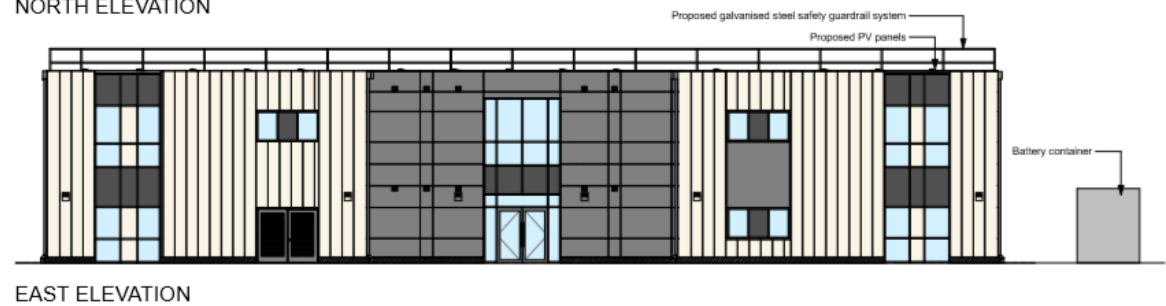
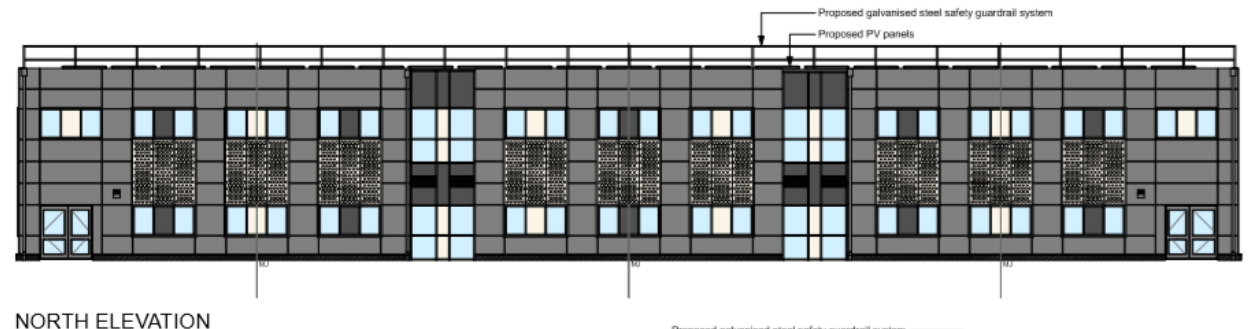
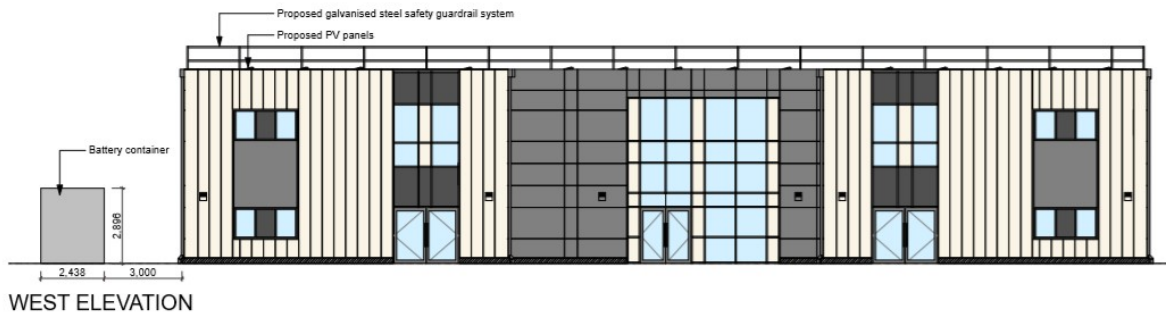
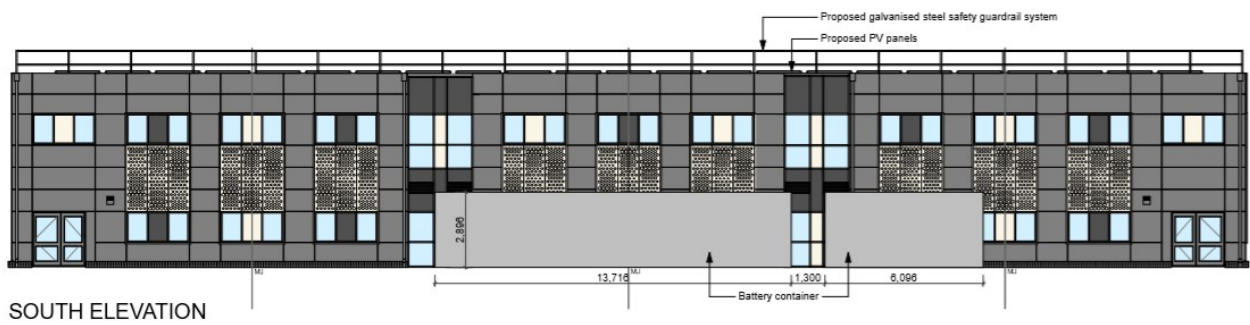
- 1.1 Temporary planning permission was recently granted for the erection of a modular constructed Teaching block for a 5 year period at Swansea University Bay Campus. The building lies to the immediate west of the School of Management building, the north of the newly constructed Academic Building (The College) and the south of the residential buildings and main access road promenade.
- 1.2 The building was required to meet the growing student population on Bay Campus to meet the timetable requirements over the next 5 years.

2.0 Proposal

- 2.1 ABC have recently received some additional grant funding to install a large battery, associated fast car charging points, PV on the roof and associated plant facilities. The scheme will utilise the existing flat roof and support Swansea University's power requirements through additional renewable energy generation.
- 2.2 The battery storage and inverter containers will be sited on the southern elevation of the building with the parking spaces adjacent to the existing plan compound. Some railings will be accommodate on the roof for health and safety reasons to allow safe access to the roof mounted solar panels.



- 2.3 The siting of the solar panels is to maximise solar gain and parking and plant siting the most accessible locations via the existing access roads. The plant equipment will be sited on a hardstanding.



- 2.4 The project is a research based facility which will enable the Temporary Teaching Building to generate renewable energy to power itself. The battery will also store energy which can then be redistributed back to the Temporary building and the adjacent school of management which will contribute significantly to the power requirements of these buildings.
- 2.5 The proposed battery is a prototype which if successful could result in research game changer for the renewable sector. It is hoped that this research based facility will be fully operational by June 2020.

3.0 Main Issues

- 3.1 It is felt that the main issues for consideration during the determination of an application such as this relates to the potential social and economic impact of the installation and the resultant impact of the physical development upon the visual amenity of the area.

4.0 Social and Economic Impact

- 4.1 From a purely research perspective, the approval of this application would help facilitate the expansion of the research capability of ABC on Bay Campus and help transform construction through the utilisation of a new form of battery. The scheme will also incorporate fast charging points for electric vehicles. The provision of the PV will help meet the power requirements of the Temporary Teaching Space and enable the ABC Team to monitor building performance at a high level.

5.0 Visual Amenity

- 5.1 From a visual amenity perspective, the proposal incorporates two main elements:
1. PV on the roof.
 2. Battery and inverter storage in containers.
- 5.2 The PV panels will be sited on the flat roof of the Temporary Teaching space and will not be overly prominent from wider vantage points. Furthermore, the proposed hand rail will not appear a dominant or oppressive structure when viewed from the wider area. As such these elements of the proposal are considered acceptable in visual terms.
- 5.3 The battery and inverter containers will be sited to the southern elevation of the building and will be readily accessible from the distributor road which runs to the immediate south. They will be grouped with the existing building and adjacent to the proposed charging points.
- 5.4 It is felt that the batteries will be focal point and result in an opportunity to showcase innovative modern technology which if successful could be a catalyst for other forms of development such as this throughout the Campus.

6.0 Conclusion

- 6.1 In conclusion it is felt the proposal is an opportunity to test case a modern new form of battery which will help develop the ABC projects goals of transforming construction. Moving forward, the installation will also help meet Swansea Bay Campus energy requirements whilst providing places for fast charging points to encourage the use of electric vehicles. With this in mind it is hoped you will support our proposal.

8. Policy Context

National Guidance

Planning Policy Wales 2018

Planning Policy Wales supports the provision of good quality education facilities in sustainable locations such as this. Bay Campus is in a highly accessible location and this building will help provide opportunity for all.

The new building will help provide additional infrastructure which will sustain the University and enable it to provide sufficient accommodation for the 2019 Academic Year and help the wider economy in accordance with the provisions of Planning Policy Wales 2018.

Local Policies

Neath-Port Talbot Local Development Plan

Policy CCUC 1

Coastal Corridor University Campus Land is allocated on Fabian Way for the development of the Swansea University Science and Innovation Campus, comprising academic university facilities, research and development and student residential accommodation.

The Bay Campus is a strategic site identified in the NPT LDP as a potential catalyst for Countywide regeneration which could result in additional major inward investment, create a knowledge based economy and attract high tech industries.

INVOLVEMENT

Community/neighbour engagement: To date no neighbour or community engagement has taken place.

9. RESPONSE TO OBJECTIVES OF GOOD DESIGN

Access: Access will be provided via the creation central link which will enable access to the building from both the west and east. This will enable students to access from the car park, from the adjacent residences and other academic departments within the Bay Campus. Each wing will also accommodate sufficient fire escape staircases to meet the needs of the occupiers. The site is served by excellent public transport via numerous bus connections to the wider area.

Character:

Amount of Development: The proposal will involve the provision of a 2,400 sqm building which will provide 8 x 150 teaching spaces and 8 x 40 teaching spaces to cater for the Swansea University growth. The building will also provide sufficient toilets to cater for the occupiers.

Scale:

The proposal has been carefully designed to ensure the development complements the size and scale of the adjacent buildings. With this in mind the development has sought to remain subservient to adjacent buildings and retain a strong relationship with the adjacent promenade.

Appearance:

The building will be modular construction and will have a brick plinth with rain-screen cladding system treating the remaining elevations. The colour of the cladding system is yet to be determined.

Landscaping: The scheme will involve minimal opportunity for landscaping.

10. Environment Sustainability:

Where possible the materials used in the conversion will be locally sourced. The development has tried to maximise natural light into the teaching spaces throughout the day, thus reducing the need for lighting.

The building will have an efficient boiler plant and ventilation. Materials will be sourced from sustainable sources where possible. Furthermore the building will be modular and the majority of the building can be dismantled and reused.

11. Movement:

The building will be situated on Bay Campus within close proximity to the student residences and other academic buildings and as such increasing the potential to cycle, walk and use public transport safely, whilst simultaneously reducing the reliance on the car.

12. Conclusion

The development will introduce a temporary teaching space for period of up to 5 years in order to accommodate the growth in the number of students attending the courses at Bay Campus. The scale, design and massing of the proposal is considered in keeping with the character and appearance of the area. The site will be accessible to all and the building will have recognisable and legible entrances and exists. The Bay Campus has excellent public transport links reducing the reliance on the private car thus improving sustainability.

The development will help improve and ensure the long term vitality and viability of the University enabling the institution to be able to provide sufficient space for the 2019 Academic Year. Furthermore the proposal will help attract money and investment into the local economy. Local workers and suppliers will be used during construction and future students will be well placed to use surrounding businesses, thus improving both the immediate and long term economy of the wider area.