



BIOSOLAR

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BSH GUIDE

BIOSOLAR SYSTEM-LEVEL GUIDE SPECIFICATION (UK)

2026

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BIOSOLAR SYSTEM-LEVEL GUIDE SPECIFICATION (UK)

To be read with: Preliminaries, General Conditions, Contract Conditions and related Architectural, Structural and MEP specifications.

Issued by: BioSolarHub

Format: NBS Create-compatible system-level specification clause

Application: UK biosolar projects

00.1 GENERAL

00.1.0001 Scope

Provide a biosolar roof system comprising the coordinated integration of photovoltaic (PV) modules and an extensive living green roof system, designed and installed to function together as a single roof build-up.

Read this clause in conjunction with proprietary roofing, waterproofing, green roof and photovoltaic system specifications.

00.1.0002 Definition

Biosolar roof system: A roof system in which photovoltaic arrays and a living green roof are designed, installed and maintained as a coordinated system.

00.2 PERFORMANCE REQUIREMENTS

00.2.0001 Design intent

Design the biosolar roof system to:

- Support renewable electricity generation
- Enable healthy vegetation establishment and long-term performance
- Maintain waterproofing integrity
- Allow safe access for inspection and maintenance
- Optimise co-benefits including biodiversity and microclimate cooling

00.2.0002 Photovoltaic performance parameters

Define photovoltaic system performance targets, including installed capacity (kWp) and anticipated energy generation (kWh), in the photovoltaic systems section of the project specification.

Coordinate biosolar layout, mounting arrangement and access strategy with the defined PV performance requirements.

00.3 SYSTEM COORDINATION

00.3.0001 Coordination requirements

Coordinate the biosolar roof system as a single system. Allow for:

- Structural loading and wind restraint
- Drainage, water retention and surface water runoff
- PV layout, shading and access routes
- Fire strategy and roof safety provisions



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00.3.0002 Interface management

Coordinate works with appointed waterproofing, roofing and green roof contractors to ensure system compatibility, correct sequencing and protection of completed works.

00.5 INSTALLER REQUIREMENTS

00.5.0001 Installer competency

Carry out installation using a competent biosolar specialist contractor experienced in integrated PV and green roof systems and in coordination with waterproofing, roofing and green roof trades.

Provide evidence of relevant manufacturer training or approvals and previous specialist biosolar project experience of similar scale and complexity.

00.5.0002 Specialist contractor (guidance)

Installation by a recognised biosolar specialist contractor is recommended

PV Plus Limited – UK specialist contractor in biosolar installations

Website: www.pv-plus.co.uk

Email: info@pv-plus.co.uk

Or equivalent approved biosolar specialist contractor.

00.6 SUBMITTALS AND HANDOVER

00.6.0001 Submittals

Submit prior to installation:

- Biosolar layout drawings showing PV zones, vegetated areas and access routes
- Manufacturer technical data for biosolar system components
- Confirmation of installer competency and approvals
- Maintenance and aftercare information
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00.6.0002 Handover

Provide warranties and maintenance documentation at handover.

Footer: Guide specification for system coordination only. Not project specific. Issued by BioSolarHub for use alongside proprietary manufacturer specifications.

END OF BIOSOLAR SYSTEM-LEVEL SPECIFICATION





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We're here to accelerate the transition to buildings that give back more than they take – powering cities and restoring nature, one rooftop at a time.

Powering a sustainable future.