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Acrow Beam Bridge Provides Fast, Permanent Access Solution for Devon Solar Farm

Pre-fabricated, cost-effective steel structure enables efficient site construction

In early 2024, renewable energy company RWE announced construction had commenced at seven new UK solar and co-located battery projects, including Langford Solar Farm, near Cullompton, Devon. To provide safe and reliable access for equipment during the construction of the new farm and for maintenance vehicles after the facility is operational, a steel beam bridge from Acrow was installed at the site.

Acrow sold the bridge to the project's contractor, Ethical Power. With an installed capacity of 35MW solar and 35MW BESS, the farm is expected to reduce its carbon emissions while benefitting the local community by creating new jobs.

The beam bridge measures 13.41m long by 5.49m wide and is designed to Eurocode LM1 and LM2. It was delivered to the farm, pre-constructed, in late October 2024, and was lifted onto the abutments in several hours. The bridge is hot-dip galvanized to protect against corrosion and reduce maintenance requirements throughout a service life of 100 years.

Acrow's rapidly installed beam bridges are a proven, cost-effective solution for both temporary and permanent short-span applications. Expertly manufactured with high-quality steel, they are available off-the-shelf in standardised lengths and widths, and can be customised to a variety of highway loadings and vehicle types as well as pedestrian applications.

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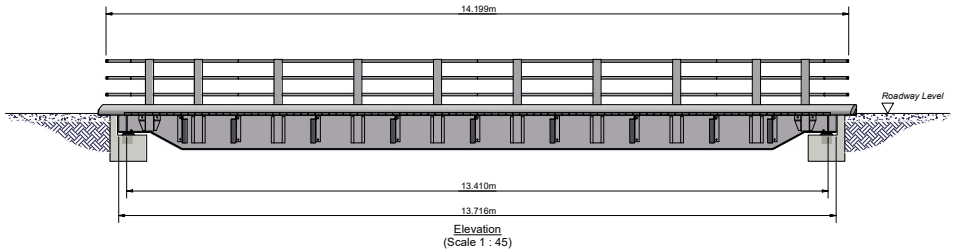

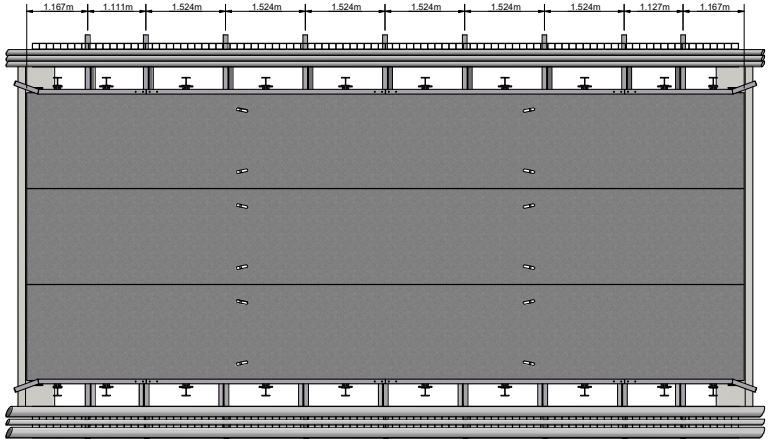

Specifications

Bridge length:

13.41m

Roadway width:

5.49m

Parapets:

P2 Parapets

Deck surface:

Anti-skid epoxy aggregate

Bridge erection method:

Crane lift in

Design load:

Eurocode LM1 and LM2

Standard Acrow Bridge finish:

- All major components galvanized to AASHTO M111-ASTM A123
- All bolts are hot-dip galvanized

Standard Acrow Bridge specification:

(A) Plate, beams and framing to AASHTO M223 GD 50

(B) Bolts to AASHTO M164M – A325

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