



# Rubb Buildings

## BIOMASS FACILITIES

### DESIGNS FOR CHANGE

Biomass fuel processing and storage facilities



[www.rubbuk.com](http://www.rubbuk.com)



## E.ON Energy biomass plant

31.5m span x 137.5m long BVC type structure

**Rubb worked with AJS Contracts Ltd to provide an innovative biomass fuel processing and storage facility to energy giant E.ON UK.**

Rubb Buildings Ltd manufactures custom engineered fabric structures for the renewable energy and biomass power sectors. Rubb biomass facilities provide the ideal building solution for material processing, bulk handling and storage.

The 31.5m span x 137.5m long fuel storage building at Ironbridge Power Station has an apex height of 21m, making it Rubb UK's tallest building to date. The roof provides rigidity with minimal deflection, providing stability and support for a 200 ton roof-mounted conveyor system used for the dispersal of biomass fuel products. The complex has helped facilitate the coal to biomass conversion at the power station in Shropshire, UK.

The handling and storage structure features a roof pitch of 35° which was designed around the angle of repose of the biomass materials. The UK based Rubb team was readily available to provide advice, support, recommendations, site visits and ongoing solutions regarding the challenges that arose during the project. These included structure height, weight loadings, access and custom door designs.

Rubb successfully met with AJS/E.ON requirements that all elements of the structure were to be designed and manufactured

in the UK. The steel framework of the building is protected from corrosion by hot dip galvanizing. Galvanising is the process of metallurgically bonding a tough coating of zinc in to the steel surface. The frame is clad with polyester woven base cloth covered on both sides by PVC and coated by a PVDF finish.

Martin Wylie, Renewable Energy Divisional Manager at AJS Contracts Ltd, said: "Rubb Buildings supported us throughout all aspects of the project, from initial concept design to construction completion. It was clear from the outset that Rubb were determined to deliver what was their most challenging build ever in the most professional way possible, on a project that had an almost impossible timescale. Working on a renewable energy project in the UK brings its own challenges. This combined with constructing within a world heritage site, such as Ironbridge, really increased the need and focus to operate efficiently and to achieve a build that is aesthetically pleasing.

"The real breath of fresh air for AJS was to work with a UK turnkey contractor, a company who can design, manufacture and install the complete package, providing auditable quality procedures and more importantly an excellent understanding of UK Health, Safety and Environmental regulations. This helped remove additional pressure from the principle contracting team. Rubb Buildings have developed a product that can be rolled out globally across the renewable industry sector and AJS Contracts would be more than happy to recommend their services to any prospective client."





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