

Case study

# Conversion of Industrial Unit into Oat Milk Manufacturing Facility

Alan Wood & Partners (AWP) provided comprehensive Civil & Structural Engineering services to facilitate the conversion of a 34,000m<sup>2</sup> industrial unit into a state-of-the-art oat milk manufacturing facility.

This transformation aimed to enable production capacity up to 300 million litres annually, with future scalability to 450 million litres, positioning it as one of the world's largest plant-based non-dairy factories.

The project was a pivotal part of Oatly's strategic initiative to establish environmentally sustainable manufacturing hubs. By 2029, Oatly aims to achieve 100% renewable energy use in production, halve water withdrawal compared to 2019 levels (4.3 litres per litre of Oatly), and eliminate all production waste to landfill. AWP's role involved intricate mechanical and process design integration, overcoming challenges within a dynamic project environment.

Cont'd...



Location:  
Peterborough



Client:  
Oatly



Architect:  
Cox Freeman



Value:  
£20m



Civil  
Engineering

Structural  
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Engineer/  
Manage/  
Deliver/

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Continued...

Collaborating closely with EPCM specialist Niras, AWP adapted the existing industrial structure to accommodate specialised process equipment. This included meticulous analysis and modification of structural load paths, ensuring efficient alignment with new operational requirements.

Additionally, AWP engineered adjustments to the facility's drainage systems and service yard layout to support the facility's high-volume process water needs and logistical demands.

Through these efforts, AWP played a crucial role in transforming the industrial site into a cutting-edge facility that supports Oatly's mission of sustainable production and global leadership in oat milk innovation.



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