

# New boiler house at major brewery saves £256,000 per annum

Projective were engaged to design, install and commission a purpose built boiler house, replacing ageing steam boilers to achieve enhanced reliability. Our solution minimised operational cost and water use.

## The Challenge

To design a boiler house to produce steam efficiently to match the widely varying site demand.

## Our Approach

Utilising the Process Energy model a steam demand profile was generated for the current production requirements. Future expansion requirements were then incorporated to determine the boiler size.

## Intelligent Solution

Steam demand varied greatly across the working week and weekend and so a solution was engineered with varying boiler capacities. Utilising high efficiency burners and sophisticated controls, the site load is met by the most efficient boiler or combination of boilers.

Economisers were specified on the three boilers and heat is recovered from rejected condensate and boiler blowdown to maximise efficiency.

A Process Water review brought further benefits. The boilers are supplied by concentrate (usually discharged to drain) from the main process reverse osmosis (RO) plant after being treated and softened.

## The Result

Projective acted as Principal Contractor under the CDM (Construction, Design and Management) Regulations to deliver the boiler house (capacity 32 tonnes per hour). We also achieved:

- ▶ Substantial energy savings
- ▶ Reduced water consumption
- ▶ Reduced effluent discharge volumes
- ▶ Heat recovery from waste streams

## Benefits

- ▶ Net annual savings of **£256,000**
- ▶ Site **exceeded** water savings targets



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