



Glen Moray

Increasing Steam Capacity, Efficiency and Safety

Increased Output Case Study

Location: Glen Moray Distillery, Elgin, Scotland.

Challenge: Specification and installation of a larger, more efficient boiler in response to increased site activity that would meet future emission regulations.

Solution: Installation of a new Cochran Thermax boiler, coupled with an Equinox gas burner, economiser, feed water tank and blowdown vessel, controlled by Cochran's Synergy boiler house control and monitoring system.

Results: Increase in boiler efficiency to 95 %, with installation of high efficiency ancillary equipment cutting boiler electricity consumption by 35 %.

The famous Glen Moray Distillery at Elgin in Scotland is undergoing significant expansion in response to buoyant global sales of the famous Malt Whisky. This increased output meant that the distillers needed to increase process steam output at the site through the installation of a larger, more efficient boiler that was future proofed against stringent upcoming emission and H&S regulations.

Project Background

The Elgin Distillery's steam requirements had for many years been serviced by a Cochran Thermax boiler. Glen Moray also placed great value on the long track record of efficient local service, maintenance and breakdown backup provided by Cochran's extensive national network of specialist Service Engineers.

Finally, the original Thermax's reliability and impressive efficiency at the time of original installation and Cochran's pre-eminent position as THE boilermaker to Scotland's distillery industry made Cochran the first choice provider for Glen Moray's new, higher output boilerhouse capability.

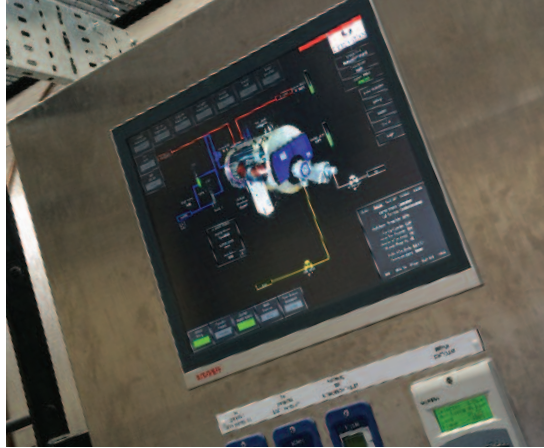
The Cochran Promise

- 95 % efficiency achieved by installing a Cochran boiler/ economiser combination. The supply of VSDs for the FD Fan and Feedwater motors would also reduce the boiler electrical consumption by 35 %.
- Highly efficient and reliable equipment specified to meet and exceed stringent new emissions and Health & Safety legislation.
- Use of the Synergy boiler management system to provide the client with accurate data on boiler operation and comprehensive touchscreen plant control.
- The Synergy system also offered the ability to deliver real time fuel and water consumption data against steam production, enabling accurate costing of steam production, aiding overall plant financial management.



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Energy Solutions Worldwide

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The Solution

Cochran's solution was the installation of the latest generation of Thermax boiler. This well-proven unit was coupled with the Company's Equinox gas burner, an economiser, feed water tank and blowdown vessel.

The boiler and associated equipment is now also controlled using Cochran's advanced touchscreen Synergy boilerhouse control and monitoring system.

The Synergy system seamlessly integrates all of Glen Moray's boiler and equipment, providing real time fuel and water consumption data compared to steam production. This invaluable information now enables the Distillery to calculate the exact cost of its process steam, assisting in accurately identifying the overall production cost of the famous Malt Whisky.

Cochran's Service Department also interrogate Glen Moray's Synergy system remotely to identify any problems without having to attend site; reducing potential downtime and loss of production.

The Results

By installing a high efficiency economiser, Glen Moray are now reaping fuel savings of between 6 and 7% and a 35% saving on their boiler operation electric bill. These impressive cost reductions suggest that payback time for the boiler and ancillary equipment, will potentially be as little 5 years.

In addition, the client's expectations for reliability of the new system have been far exceeded. The old burner/boiler combination presented various issues, with problems relating to equipment age causing numerous spurious shutdowns...

Glen Moray's new system has proved extremely reliable, significantly cutting costly loss of production through boiler plant failure.



+44(0) 1461 202 111
www.cochran.co.uk

Cochran Ltd, Newbie Works, Annan, Dumfries & Galloway, UK DG12 5QU.