

Job Title:

**Conversion of Waterford
Bba Facility**

Company:

**Renegade Spirits
Waterford Distillery**

Location:

**Waterford City, Co.
Waterford**

Duration:

12 months

Objectives:

- **Recommission existing plant for spirit production**
- **Integrate Reporting System**

Waterford Distillery was set up in an existing Waterford Diageo facility. This facility was converted from a brewery into a distillery allow for the production of spirit. Waterford Distillery use multiple varieties of grain to produce different flavoured whiskeys.

The Waterford Distillery Plant contains four 180T grain silos, a 350hL Brewhouse, four 1000hL fermenters, 100hL Yeast propagation unit, 18,000 L Wash Still, 11,500L Spirit Still and multiple CIP vessels. The entire plant also includes over 5000 I/Os.

Customer requirement:

- Initial plant capacity of 1 Million La for 5 years increasing to 3 Million La at the end of year 5.
- Track and trace of product throughout the brewing and distillation process.
- Fully integrated SCADA system allowing fully automated control throughout the plant.
- Data logging of all required data and trends including temperature, flow rate and mechanical failure.

MWCS during project:

- MWCS provide support for the customer, mechanical and electrical contractor during commissioning.
- Commissioning of the Dry goods, Brewhouse, tank farm, Pot stills and CIP vessels.
- Full IO testing through different platforms (Profibus /ASI).
- Change of hardcode settings and main parameters from previous system.
- Full 24 Hour cover during operation.

Implantation of MWCS System:

- Intake of grain from multiple sources with product ID availability.
- Process completed with minimal operator intervention.
- Full HMI system allows the operator to interact with the PLC program.
- Alarms signals for program or mechanical errors.
- Track and trace system allows product to be tracked throughout the plant.
- Reporting system provides trend and data analysis.