



## Process Description & Equipment Supplied

Monaghan County Council is responsible for the provision of waste water treatment facilities in Co Monaghan. In this context it seeks innovative methods of treating waste water through SRC Willow plantations whilst encouraging the growth of a renewable energy source in form of wood chip biomass. In 2009 Monaghan County Council made a successful application to the SEUPB to carry out an Interreg IVA project. The SEUPB in Northern Ireland and the Border region of Ireland and western Scotland (Interreg IVA Programme) is a distinctive European Structural Funds programme Monaghan county council's Project "SRC willows" is designed to help meet the aims outlined above. The main thrust of the overall project is to use SRC Willow on local farms, irrigated with partially treated domestic waste water from Clontibret & Knockatallon Sewage treatment works (STWs). This over a 10-year period will provide Biomass for heating/power generation on a cyclical basis. Our full scope included the design, provision and commissioning of all associated controls and Mechanical and electrical packages for the project.

## Project Overview

### Client Name

Monaghan County Council

### Completion Date

September 2014

### Reference Contact

Oliver Mulligan

Monaghan County Council

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### Value of Project

€185,000



## Design Involvement

DPS was involved throughout the design process for the pump station and liaised extensively with Mongahan County Council to develop not only the hydraulic duty for the site and the subsequent pump selection but to also assist in the layout design of the pump station prior to the civil tender documents being issued. This relationship was key to ensuring a coherent solution that would allow site optimisation for both efficiency and ease of access for future maintenance in order to drive down Whole Life Cycle costs of the asset.

Both sites at Knockatallon 5.4ha of willow and Clontibret 6ha of willow utilised the same equipment and both were fitted with a low lift pump station using the Submersible KSB Amarex N range transferring final effluent to pre cast storage tanks. The irrigation system is made up of 15 and 11 zones respectfully using the KSB Movitec Range to pressurise the irrigation and the HUNTER irrigation equipment to control the liquid levels sent to each zone it is a very reliable design

## Ensuring Equipment Installation to OEM Specification

DPS was responsible for the installation of the pumping equipment on site. To ensure installation to OEM specification our team worked with the OEM (KSB) supplier from the design stage to ensure that the bespoke design would work effectively with the pump hydraulic. To this end the design was signed off by KSB as suitable for use. Prior to installation on site an installation plan was developed by DPS based on the OEM installation instructions and the requirements for the site. Prior to installation equipment the site was checked for compliance with the civil design.

## Ensuring Equipment Commissioned to OEM Specification

A key component of our value offering on this project was to ensure that the installed pumping assets were commissioned and put into operation as efficiently as possible. DPS coordinated this phase of the project collaborating with our client Monaghan County Council and their Client AFBNI, their engineering team and our OEM partner which ultimately ensured a positive commissioning phase outcome for the project. Our upfront agreed installation and commissioning plan ensured that all stakeholders were fully aware of our approach and expectations for all involved were managed adequately



## Process for managing relationships with customers delivery team

Having progressed from working with the design team to the supply and installation phase, DPS nominated a Project Manager who was the point of contact for ESB and all other contractors on site and was responsible for all communications from DPS to Monaghan County Council and the project stakeholders.

The Project Manager was responsible for monitoring the schedule and milestone achievements, covered issues such as Health and Safety, Quality and Risks. The outputs of the daily and monthly project meetings were subsequently communicated to the DPS installation team and the OEM as required. The Successful project was completed on time and on budget in late 2014 and DPS still has a key input into the progress and operational modifications of this AFBNI trial Project.