

Case Study

On-Site Power Generation | Dublin



Project: Pressure Reduction - Moyne River Advanced Control
Product: CLA-VAL pressure reduction valve, e-Power IP generator

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The majority of pressure reduction applications and at most pressure reduction sites there is a large pressure differential or hydraulic drop created across the pressure reduction valve. Cla-Val have taken advantage of this available hydraulic energy and produced a series of hydro electric generators that can typically produce sufficient power to operate the connected devices within the proximity of the PRV, which in turn, negates the need for a connection to the electricity grid. At Moyne River in Dublin, IPL group supplied a Cla-Val e-Power IP turbine installed on a 200mm PRV that can supply voltages at either 12 VDC or 24 VDC and with a power supply of 14 watts continuously, 36 watts for 10 minutes per hour or 60 watts for 1 minute per hour. The devices powered are three pressure transmitters, an e-Drive motorised pilot system, an e-Lift valve position indicator and a D22 valve controller with cloud based data monitoring and control. Advanced control has been made possible at Moyne River using on-site power generation and has proved to be a successful solution for this site where mains power supply was not available. As a result of on-site power generation and PRV advanced control, Dublin City Council are now saving approximately 200 M3 of potable water per day at this site.



Further information on CLA-VAL valves including kiosk installation is available from IPL group. Measurements and weights are approximate. The designs are the property of Innovative Products Ltd (IPL group) and may not be reproduced without express permission. Innovative Products reserve the right to amend specifications or to withdraw models without prior notice. © May 2021.

