

Smurfit WestRock Power Export Increase



Case Study: Power Export Limit Increase from private generation.

Client: Smurfit WestRock
Project Partner: WJ Project Services

Location: Smurfit WestRock Townsend Hook Paper Mill

Scope: Power Quality Monitoring to demonstrate compliance against the relevant EREC specifications, Survey, Design, Installation, Test and Commission. Stakeholder Management, leading interface with the DNO.



Project Overview

WJ Project Services lead delivery of Power Export Limit Increase project, remitted in increase power export limit from 1.2MW to 7.5MW from embedded private generation to Grid. The work involved G99, G5/5, P28 & P29 compliance studies, design, installation, test and commission into operational service. Management of interface with DNO.

Approach

Works started with review of existing connection agreement with the DNO, review of the latest applicable ENA's Engineering Recommendations (EREC's), engagement of and filing of application form to the DNO. Once the scope has been defined and agreed, power quality monitoring was carried out to support the relevant studies. Following the completion of PQ studies, design work was undertaken. Design was coordinated with the DNO's counter design and approved for construction before commencement of installation works.

Installation, Testing & Commissioning

The installation works were carried out under suitable access to minimise disruption to operation of the plant, in line with approved methodology and risk assessments (RAMS). Following installation, the scheme was commissioned into operational service, jointly with the DNO, where all of the cross-boundary checks were carried out. All of the G99 hot commissioning forms were signed; test results and applied protection settings were captured in the relevant Inspection and Test Plans.

Outcome

Additional revenue to the client generated from increased power export. Greater generating flexibility and more efficient operation of generating plant.