

Case Study

PROJECT NAME: BELFAST ROAD
PROJECT TYPE: FLOOD RISK ASSESSMENT FOR A SOLAR FARM
PROJECT SIZE: 10MW
CLIENT: LIGHTSOURCE LTD
DATE: JUNE 2014



Neo Environmental were commissioned by Lightsource Renewable Energy Ltd to produce a Flood Risk and Drainage Assessment to support a planning application for a 10MW solar energy development near Dundrod in Northern Ireland.

Neo Environmental's involvement:

- Carried out a Flood Risk & Drainage Assessment in accordance with PPS15: Planning and Flood Risk for the proposed development.
- Propose mitigation measures including raising floor level of all site building above 100mm above ground level; forming the proposed access roads using permeable materials and proposing 104m of swales sown with an appropriate seed mix upon construction.

Project Outcomes:

- A small section of the site was found to lie within a 1 in 200 year surface water area.
- The provision of swales would lead to an overall reduction in surface water flow rates from the site, mitigating any increase in run-off due to the minor reduction of less than 0.07% in the overall permeable area of the site.
- It was found the development would have a negligible impact upon site drainage and natural drainage would be retained except in the extreme storm event.