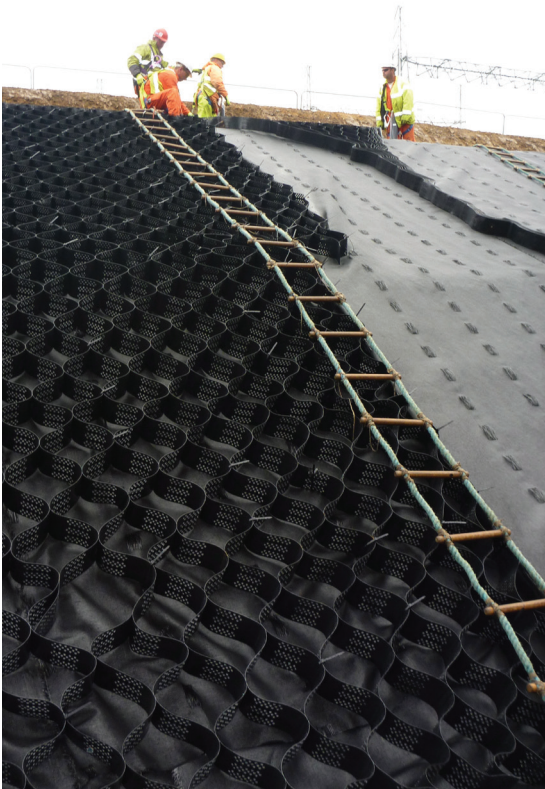




## Geomembrane Protection and Top Soil Retention on Steep Slopes, Great Island Power Station, County Wexford, Ireland

## Top Soil Retention

Erosaweb has been used to contain topsoil on the inside faces of a secondary containment bund within the construction of a new 460MW Combined Cycle Gas Turbine Power Station on Great Island, County Wexford.



*Erosaweb laid on over looped Abtex. The loops onto which the Abweb is fixed are clearly visible.*

### Project Information

Client **Scottish Southern Energy (SSE)**

Main Contractor **Balfour Beatty**

Sub-Contractor **Lining Technology**

Products

- **Abtex SG60P/60PL Looped Geotextile**
- **Erosaweb GWX 150/300**
- **Abfix Ties**

Benefits

- **Rapid installation**
- **Protects geomembrane from damage**
- **Allows vegetation to establish on steep slopes**

The inside faces are formed from very steep slopes of 45° and consists earth faces overlaid with a protection geotextile which sits beneath a LLDPE geomembrane which forms the barrier in event of a failure occurring within the bund. Over the geomembrane liner is a Abtex looped geotextile and then finally the Erosaweb which is fixed to the Abtex using Abfix ties rather than with fixing pins that would puncture the geomembrane.

Erosaweb is a three dimensional matrix that works by confining materials within its cellular structure. On steep slopes it prevents top soil slipping down the slope allowing vegetation to establish. In this project a perforated Erosaweb has been used, this allows root interlock to take place between adjacent cells and also allows lateral drainage to occur.

The inclusion of Erosaweb offers a couple of key benefits for the project:

1. Using Erosaweb allows the formation of a protective layer over the geomembrane protecting it from damage and also from degradation as a result of exposure to UV.
2. By filling the Erosaweb with a top soil it is possible to establish vegetation on the steep slopes minimising the visual impact of the bund on the surrounding environment.

Contact ABG to explore how Erosaweb can help your client achieve a sustainable, cost effective and carbon neutral solution on their project.



## About ABG

ABG are a market leading developer of high performance geosynthetic solutions for use in a wide range of civil, environmental and building applications. Established for 25 years and based in the UK ABG pride themselves of delivering outstanding customer service along with innovative solutions.

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