



Swinefleet & Hertford Drain Tilting Weirs

Client: Yorkshire & Humber IDB
Location: South Yorkshire

Situation

As part of the LAPSIP (Lowland Agricultural Peat Small Infrastructure Pilot) programme, Yorkshire & Humber IDB sought to implement measures that would raise water levels to aid carbon sequestration in drained peatland. A reliable and automated solution was needed to precisely manage water levels within the drains at Swinefleet and Hertford to support environmental targets.

The Project

ACE supplied two stainless steel tilting weirs (TWs), each integrated with the innovative VLAAR Compact Solar Control (CSC) system. This setup allows for fully automated operation and remote monitoring powered entirely by solar energy – ideal for rural or off-grid locations.

The Hertford site required a larger structure, and ACE delivered a full stainless steel TW measuring 5 metres wide by 1.5 metres high. At Swinefleet, a smaller unit was installed (1.5 metres wide x 1 metre high). Both were installed directly into sheet piles, ensuring structural stability and ease of integration with the existing infrastructure.

Summary

The use of solar-powered VLAAR CSC units allows for remote control and monitoring without reliance on external power sources – a key advantage in remote or sensitive environments.

The full stainless steel construction of the tilting weirs provides durability, low maintenance requirements, and long-term value for the IDB.

Installation into sheet piles ensured a quick and effective fit, reducing the time and complexity of civil works on site.

Both systems now allow the IDB to control and maintain optimal water levels with minimal manual input. This improves the potential for peatland rewetting, supporting long-term carbon sequestration and contributing to national environmental goals.



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