BATTERY ENERGY STORAGE · PERIMETER SECURITY

BESS security built in during construction

A 1 m electric fence topper, a gate and post layout designed around it, and perimeter alarms linked to the plant's SCADA software.

390 m	1 m	3	SCADA
SECURITY FENCING	ELECTRIC FENCE TOPPER	GATES PROTECTED	ALARM INTEGRATION

01 · THE CHALLENGE

A new battery energy storage system (BESS) plant needed its perimeter secured as part of the build, rather than added once construction had finished.

02 · THE SOLUTION

An electric fence designed into the boundary

APS installed a 1 m electric fence topper across 390 m of security fencing, one 6 m double gate and two 1.2 m single gates.

Extra over-height gate posts, straining posts and additional posts at each change of direction were designed into the fence, so it could carry the topper at gates, corners and along every run.

03 · INTEGRATION

Alarms where operators already work

Perimeter alarms feed the plant's SCADA software, bringing security events into the same control environment used to run the site.



ON SITE · ELECTRIC FENCE TOPPER ABOVE THE SECURITY FENCE

THE RESULT

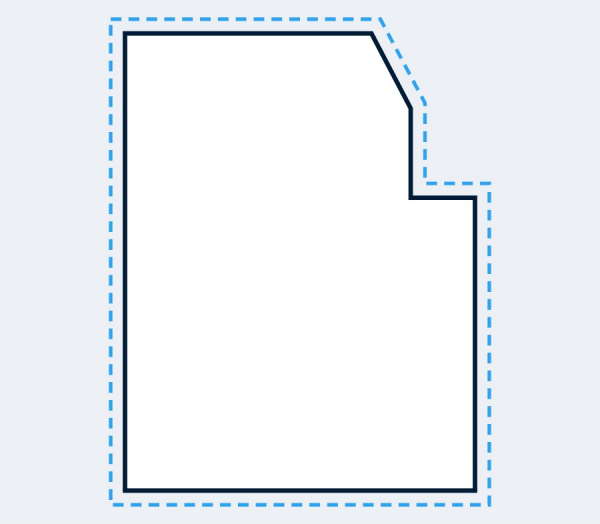
Security in place while the site was still being built

Gates, fence runs and corners were planned together, so the supporting posts went in with the fence.

PERIMETER DESIGN

One coordinated perimeter

Fence, gates, posts, topper and alarms were specified as a single system, so each part was ready for the next as the plant was built.



SECURITY FENCE 1 M TOPPER

SCHEMATIC, NOT TO SCALE · INTERNAL LAYOUT, LOCATION AND GATE POSITIONS OMITTED

Project at a glance

FENCING	390 m
DOUBLE GATE	1 × 6 m wide
SINGLE GATES	2 × 1.2 m wide
ELECTRIC FENCE TOPPER	1 m high
GATE POSTS	Extra over-height
LINE POSTS	Straining + direction change
INSTALLED	Construction phase
ALARM INTEGRATION	Site SCADA software

How it was built

01

Taller gate posts

Extra over-height posts carry the topper across the 6 m double gate and both single gates.

02

Support on every run

Straining posts and extra posts at each change of direction keep the topper supported.

03

Linked to SCADA

Perimeter alarms report into the SCADA software the plant already uses.

Plan security into your BESS project

Talk to APS about electric fence protection, gate and post design, and alarm integration for your next battery energy storage development.

T +44 (0)1786 479862
E admin@apsltd.net
W advancedperimetersystems.com

SCOTLAND
Springkerse Industrial Estate, Stirling FK7 7TP, United Kingdom

ENGLAND
8 Waterside House, Hessle, Hull HU13 0EG, United Kingdom