

PROTECT YOUR PEOPLE  
PROTECT YOUR SITE

 **solar  
gates** UK

Innovative • Capable • Passionate • Compassionate





## ABOUT US

### Our Values

With two decades of experience, Solar Gates UK are renowned for innovative products, cutting-edge technology and a relentless drive to transform the industry. Our values – **innovative, capable, passionate, compassionate** – are reflected in everything we do. Our commitment to sustainability guides us in creating top-notch solar-powered solutions that are built from the solar upwards. It's a unique way of thinking that comes from our heritage.

### Our Team

We couldn't achieve our goals without our talented team of 'misfits who fit.' With nearly half of our workforce overcoming barriers to employment, from addiction to past convictions or seeking refuge, their incredible journeys demonstrate the power of second chances. Our team members are living proof of the great things that human beings are capable of.

### Our Mission

We are passionate about giving back to the community and supporting the environment. With a dozen beehives around our factory, we *believe* in also contributing to the ecosystem and wildlife preservation.

**Solar Gates UK** are the leading innovator in solar powered security, dedicated to enhancing safety and efficiency in roadworks, construction and infrastructure projects.

Our products are designed to provide reliable, sustainable and cost-effective solutions.

Creators of the **INSTABOOM** and **SOSEC** barriers.





**INSTABOOM** is the market-leading, solar hybrid portable barrier that's fully HSE compliant and UKCA marked.

Built to meet the highest safety standards and rugged enough to withstand being on a worksite, **INSTABOOM** is a 'game changer' in highway safety.

It is deployed in minutes to fully secure a road.





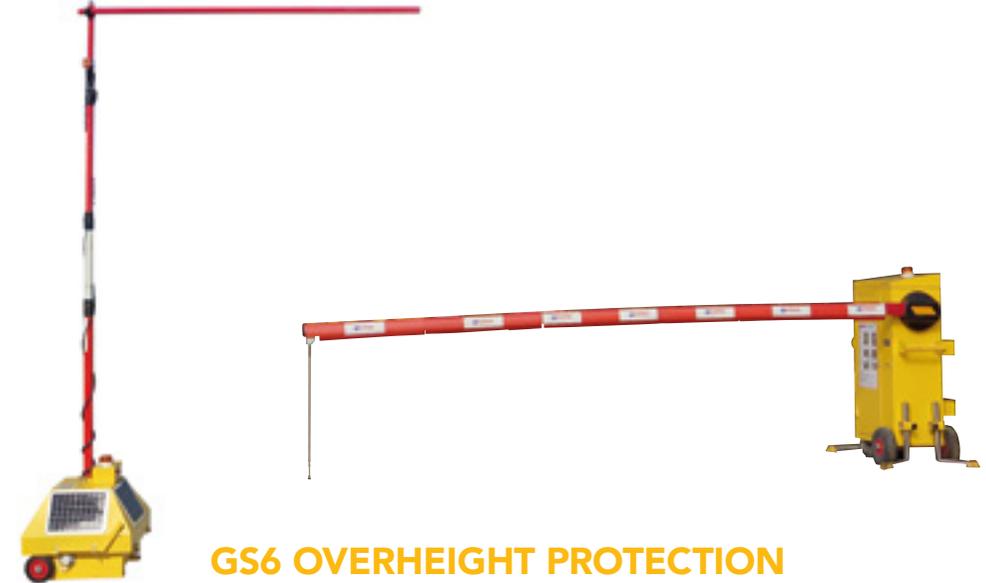
**INSTANT CLOSURES** – deployed by one person

**SIMPLE** – 800m radio fob and quick collapse boom

**TELEMATICS** – online monitoring, status and instant alerts

**COMPATIBLE** – with GS6 over height strike protection

**SOLAR HYBRID** – provides up to 20 days of run time between charging



### GS6 OVERHEIGHT PROTECTION

**CLOSURES** – instant lane closure when overhead breach detected

**SAFE** – reliable failsafe over height hazard protection system

**TELEMATICS** – instant hazard alerts and optimal fleet performance

**PORTABLE** – simple cabled connection to **INSTABOOM**

**SOLAR HYBRID** – provides up to 20 days of run time between charging



## CASE STUDY

### BALFOUR BEATTY VINCI JV

Balfour Beatty Vinci JV were responsible for the M4 (junctions 3-12) motorway upgrade. The 32-mile site required up to 110 banksmen daily and multiple physical barriers were needed along the motorway to protect workers and reduce incursions, while staying within budget.

Solar Gates UK provided the answer with **INSTABOOM**, a 'game changer' in highway safety that automated the role of manning barriers, reducing the need for operatives to stand dangerously close to moving traffic.

**INSTABOOM** offered a physical remote barrier that stopped unauthorised vehicles from entering active construction zones, significantly lowering costs and reallocating staff to more productive tasks.

Mike Omond, Plant Specialist at Balfour Beatty explained:

*"Introducing **INSTABOOM** solar barriers significantly improved safety by replacing static barriers with ones controlled by machine operators, ensuring safety across our sites."*



*"We had over 70 **INSTABOOM** barriers on the M4 contract alone, projecting savings of around £2 million over two years from our manned guarding budget. Due to its success on the M4, we expanded **INSTABOOM** to multiple highways projects across the UK."*

Mike Omond, Plant Specialist at Balfour Beatty



# GO INSTABOOM

**INSTABOOM Go** is a portable, remote-controlled, solar-powered Stop/Go board that allows traffic to be controlled efficiently in an instant.

It has been designed to be deployed by a single person with ease and simplicity in mind.

The system is controlled from a safe distance, ensuring the safety of both operatives and motorists.





**GO INSTABOOM**



**RUGGED** – deployed as 2, 3 or 4 way control

**PORTABLE** – at just 23kgs it's perfect for a 1 person deployment

**SOLAR** – 2 week run time on one charge, even without sunlight

**CONTROLLED** – rugged radio fob, operate from a safe distance

**VISIBLE** – 60cm RA2 Stop/Go sign, high intensity LED beacon



**GO INSTABOOM**



### **SIGNAGE KITS**

**13 SIGNS** – Red Book compliant

**3 RUGGED** compact carry bags

**COMPACT** – reduces vehicle capacity and payload

**UNPARALLELED STABILITY** – designed to flex in windy conditions

**SMALL FOOTPRINT** – TriFlex kit ideal for urban areas

**SIGN FACES** – RA2 reflectivity



## CASE STUDY

### READING BOROUGH COUNCIL

Reading Borough Council faced challenges with roadworks and traffic management, needing a solution that ensured safety, efficiency, and showcased their commitment to innovation. The Borough manages its own traffic operations within the county and has 15 Highways and Drainage 2-man crews operating from the central highways depot.

Initial training was provided to all Highways Operations Crews, and the units have since been extensively used for various tasks, including pothole repairs, emergency works and RTA assistance with the police.

Highways and Traffic Services Manager, Sam Shean says:

*"The remote operation feature has been particularly beneficial, allowing our crews to manage traffic control without having to be in close proximity to moving vehicles.*

*This has drastically reduced the risk of accidents and near-misses, providing a safer working environment for everyone involved."*



Reading Borough Council integrated **INSTABOOM GO** into various roadwork projects, utilising its remote operation capabilities to manage traffic effectively.

**INSTABOOM GO** significantly enhanced safety by reliably removing workers from the road. This reduced the risk to workers and drivers, as traffic flow could be managed without manual intervention. The system also streamlined traffic management processes, reducing delays and improving overall efficiency.

The use of **INSTABOOM GO** resulted in notable **cost savings** for the council. The reduced need for manual traffic management meant that the council could allocate resources more effectively. These savings were reinvested into other critical areas, further benefiting the community.





The UK's **leading** mobile barrier. **Tried. Tested. Trusted** on construction sites, haul routes and infrastructure projects all over the UK.

Combining **SO**lar power and **SEC**urity in a simple, rugged, visible and mobile platform. It is ideal for use within the UK's construction, highways, mining, retail, event and emergency markets.





### SOSEC 200 BARRIER

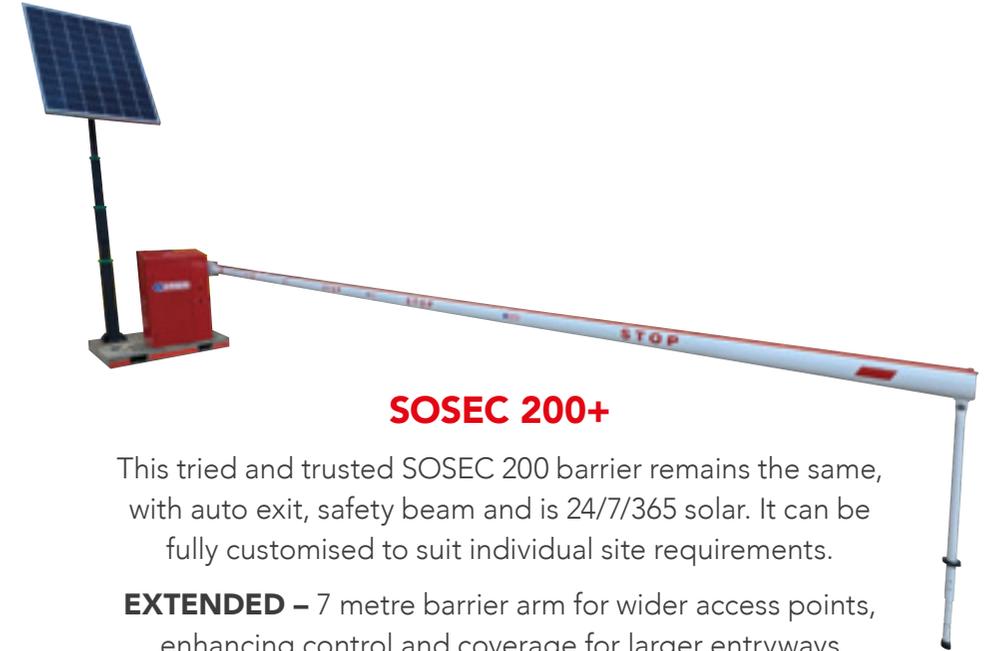
**BARRIER** – 5m boom with drop skirt or red/green LEDs

**SAFETY** – auto exit and non contact safety

**SOLAR** – 24/7/365. Up to 900 daily operations, all year round

**CUSTOMISABLE** – number of access control options including ANPR

**FORKLIFT READY** – 1.2 x 1.2m steel base, 350kg



### SOSEC 200+

This tried and trusted SOSEC 200 barrier remains the same, with auto exit, safety beam and is 24/7/365 solar. It can be fully customised to suit individual site requirements.

**EXTENDED** – 7 metre barrier arm for wider access points, enhancing control and coverage for larger entryways

**UPGRADED** – solar mount redesigned for enhanced deployment, making it easier and safer to reposition the solar panel or move the barrier, reducing risks during setup and maintenance.

**IMPROVED** – solar efficiency for more usage





### **SOSEC 100** BARRIER/GATE COMBO

**BARRIER** – 5m boom with full drop skirt or red/green LEDs

**SAFETY** – auto exit and non contact safety

**SELF-CLOSING** – pedestrian gate with keyed lock

**CODE** – for pedestrian entry/exit

**SOLAR** – 24/7/365. Up to 900 daily operations, all year round

**FORKLIFT READY** – 1.2 x 1.2m steel base, 450kg



### **SOSEC 600** WELFARE HUT

**BARRIER** – 5m boom with full drop skirt or red/green LEDs

**SAFETY** – auto exit and non contact safety

**SOLAR** – 24/7/365. Up to 900 daily operations, all year round

**FORKLIFT READY** – 1.2 x 1.2m steel base, 450kg

**WELFARE COMFORT** – LED lighting, desk, USB points



## CASE STUDY

### SOSEC HS2

The Skanska, Costain, and STRABAG joint venture (SCS JV) is one of the key HS2 construction sites, a project critical to UK infrastructure. SCS JV collaborated with Solar Gates UK to use their solar-powered **SOSEC** and **INSTABOOM** barriers across their sites to enhance efficiency and maintain security.

With more than 100 barriers across the HS2 sites, they have been chosen for their reliability, portability, and environmental efficiency.

Creating secure 'airlocks' at vehicle entry/exit points to prevent unauthorised access and deployed across the site with the added GS6 accessory to prevent potential over height vehicle collisions.

**SOSEC** and **INSTABOOM** barriers are deployed in minutes and are fully solar powered (SOSEC) or solar/hybrid (INSTABOOM) ensuring operational goals and sustainability targets are met.

SCS JV also praised the responsive support provided by Solar Gates UK, enabling swift adjustments based on evolving security requirements.





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