

Sunstone work with Sunbelt Rentals to deliver advanced renewables for Costain

Customer: Sunbelt Rentals
Region: North



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Key Features



Latest Technology

State-of-the-art analytics which detect incidents on the road and alert operators in seconds.



Connected

Stream live surveillance with integrated SVD analytics to any monitoring centre via 4G and Wireless Networks.



Simple to Deploy

The ARC is easy to deploy and requires no groundworks, data, or electrical cabling.



Environmentally Friendly

Zero emissions and saves up to 900kg of Co2 per year.

As a leading manufacturer of renewable platforms for surveillance and telecommunications, we have been working with Sunbelt, who are a strategic supply partner supporting Costain to deliver major improvements to the Testos roundabout on the A19 in the North East. Work began in March 2019 to construct a flyover over the existing roundabout and build new slip roads to connect it to the A184. This significant project will alleviate severe congestion in the area and we worked with Sunbelt in partnership to provide vital equipment for Costain supporting delivery of this project.

The Challenge

Both [Sunstone](#) and [Sunbelt](#) are environmentally responsible businesses, fully committed to doing the right thing for our planet. Sunbelt worked closely with us to leverage their unique position to bring innovations to work sites and construction across the UK.

We believe that technology is advancing in a way that we are all able to operate more sustainably and reduce our impact on the local environment.

The innovative team at Sunbelt are continually seeking ways to bring these latest technological innovations to site, to lower the impact of construction and reduce emissions wherever possible.

The site at the A19 is extremely busy. It is an open site which has public access and is near a road. Effective CCTV monitoring is vital.

Whilst reviewing the most effective approach, Sunbelt identified the opportunity to work with us and put in place a more environmentally focused product.

The Solution

The team at Sunbelt worked closely with us to trial the latest environmentally friendly surveillance equipment that meets the needs of the modern, digital world. They deployed two Autonomous Remote Communication (ARC) Systems on the A19 site.

These rapid deployment CCTV towers are powered entirely by solar energy, meaning no generators, groundworks or cables required. They give a complete outdoor surveillance solution and each unit can help to critically reduce carbon emissions by over 900kgs per year.

The ARC functionality is vast and incredibly versatile. The systems monitor critical areas of the site 24/7 using three HD static cameras, all with integrated video analytics which are remotely monitored by Sunstone's security partner, Ward Security one of the UK's leading security companies with a state-of-the-art monitoring centre.

As well as being solar powered, the innovative equipment has advanced digital security features, including:

- A PA horn with live audio capabilities to challenge intruders on site
- The streaming of footage to mobile devices through the Tether application, which gives an online viewing portal with user-friendly tool to access images without the need for an additional Video Management System (VMS) platform



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“At the forefront of evolving technology and sustainable working practices, the trial run by Sunstone and Sunbelt was a great success. As well as the benefits of rapid deployment due to the quick installation, we jointly assisted Costain in eliminating their carbon footprint for its CCTV equipment”. Sunbelt Rentals

Key Features



Traffic Monitoring

Our approved systems can be deployed anywhere on the SRN and provide real time monitoring in HD.



Automated Alerts

Our smart software can detect stopped vehicles and provide immediate alerts.



Roadworks Safety

Our systems can provide crucial surveillance during roadworks, helping to improve safety.



Smart Analytics

Our software is embedded onto the camera, providing fast alerts.

- Remote power management and health check software with monthly solar and CO2 reports
- The ability to integrate into existing security systems or operate standalone
- The ability to stream anywhere via 3G/4G to monitoring centres or mobile devices
- The option of adding monitoring by a control centre, who provide event response out of hours. They will respond to any alerts remotely and liaise with authorities and key stakeholders to resolve
- Each tower provided over 40m of detection with a field of view of 345°

The Results

The use of the towers saved an average of 1 litre of diesel consumption per day versus traditional CCTV monitoring systems.

This equates to a daily CO2e saving of: 2.54 kg CO2e per unit, which results in a total kg CO2e saving for these two units over the 30 day trial of 152.8 kg CO2e.

The annualised CO2e saving for this product will be 1,859kg CO2e. This equates to social value created over the trial of £10.11 or annualised £128.93 in carbon emission savings.

To put this in perspective, this is the equivalent of 89 trees being planted or 1.25 cars being taken off the road.

