Airsynergy’s Independent Smart Pole (ISP) uses rapid-deployment technology for Intelligent Transportation Systems on M50 in Dublin

The M50 is an orbital motorway around Dublin city and the busiest motorway in Ireland. The use of Intelligent Transportation Systems (ITS) on the Irish road network allows for safe and efficient management of the national roads and is integral to provision of an effective service. This technology enables road users to be better informed and make safer, more coordinated and ‘smarter’ use of transport networks. The client required a rapid-deployment power solution for 4G traffic surveillance. Traditional methods of bringing a power and fibre source to each point were deemed too expensive and disruptive to normal motorway operations and a fast, efficient deployment was needed.

**SOLUTION**

An Airsynergy ISP2 hybrid wind/solar unit powers roadside equipment to provide live traffic monitoring to the Motorway Traffic Control Centre. Rapid-deployment technology enabled installation and commissioning of the unit in one day, minimising disruption to normal motorway operations and reducing the duration of traffic management. As the ballast foundation does not penetrate the ground, there is no need for trenching or reinstatement. It also enables the unit to be relocated to other locations as needed. For ease of servicing, the ISP2 is designed as a low maintenance system and includes remote connectivity for unattended configuration and system health monitoring.

**DEVICES DEPLOYED**

- ISP2 using above-ground temporary foundation
- Traffic cameras with video analytics
- Interchangeable with radars and sensors for vehicle counting, classification, automatic incident reporting, average speed, ANPR, VMS signage

**USE CASES:**

- Blackspot motorway junctions
- Temporary highway works - road works monitoring
- VMS Signage
- Events - entry/exit/roads monitoring

**BENEFITS/SAVINGS**

- Standalone system with independent traffic monitoring capability
- Unit can be deployed or relocated in one day using flexible and efficient rapid deployment technology
- Above-ground foundation avoids need for trenching and reinstatement works
- Unit can be monitored and configured remotely, minimising disruption during maintenance or support
- Minimal interruption period - hours as opposed to weeks or months to deploy a pole at a site by pulling power/fiber
- Reduced cost compared to traditional power/fiber provision
- Extensive intelligent video analytics capability can be tailored to suit particular site conditions

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