



ATM-AMAC

Infrastructure Mobile Surveys & Asset Management

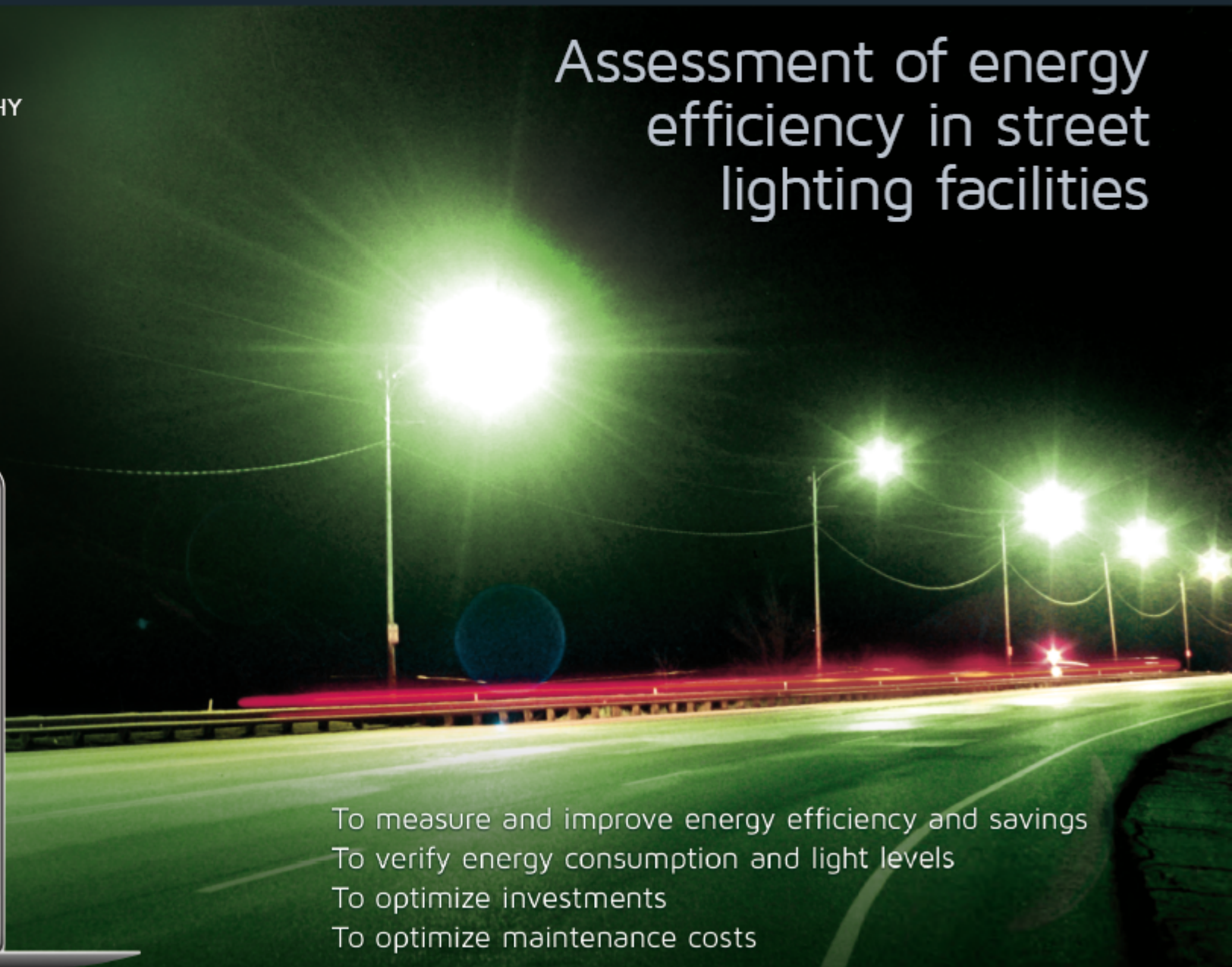
Bell Wood House, Minskip Rd, Boroughbridge YO51 9HY

Tel: 01423 324418

Email: david.villars@atm-ltd.co.uk

Web: www.atm-ltd.co.uk/services/amac/

Assessment of energy efficiency in street lighting facilities



- To measure and improve energy efficiency and savings
- To verify energy consumption and light levels
- To optimize investments
- To optimize maintenance costs

illumetric ... an advanced dynamic system conceived to evaluate and inventorise street lighting facilities

Illumetric allows the measurement of light levels on public roadways according to the established standards (EN 13201-4) in an accurate, quick and effective way, at road speed and without traffic management. It also creates at the same time the inventory of the light sources in the analysed zones.

This system is applicable to urban zones, roads and tunnels.

WHY ASSESS STREET LIGHTING FACILITIES?

- To know the energy efficiency and potential savings of our clients
- To prioritise actions and optimise investments
- To verify energy consumption and light levels before, at the delivery and after our intervention
- To optimise costs by selecting the most adequate alternatives according to the current standards (luminance and illuminance criteria)

OUR METHOD

We use a high performance vehicle equipped with the most advanced technology to measure light properties whilst in operation. These values allow us to assess the performance and energy efficiency of the facilities.

- Measurement of illuminance and luminance according to EN 13201-4
- Measurement of light spectrum to identify colour parameters and light source type
- Automatic and accurate inventory of light sources (GPS position, height, interdistance)
- Calculation of real energy efficiency based on measured light values (not on theoretic values)



WHAT DO WE OFFER?

We offer a complete assessment of street lighting facilities, looking for the energy efficiency and the maximum proficiency of the investments.

We are flexible to the particular needs of our clients (administration, ESCO) offering the maximum guarantees of independency, professionalism and technical skills.

DYNAMIC ASSESSMENT

MEASUREMENT IS PERFORMED BY MEANS OF AN INSTRUMENTED VEHICLE WITHOUT TRAFFIC INTERRUPTIONS



- Maps of illuminance and other light related parameters (luminance, uniformity), measured according to the current standards
- Energy efficiency maps
- Highly accurate inventory:
 - High precision Geo-tagging of luminaries and control panels
 - Height and inter-distance of light sources
 - Type of light source (LED, HPS, MH)
- Easy and complete management of the information, including a visualization software application, databases, raw data, shapefile and KMZ files
- Assessment and analysis of the facilities
- Street lighting energy audits
- Mobile Mapping:
 - High resolution & georeferenced road network video
 - Road assets accurate georeferenced inventory & GIS platforms integration

