

Gatwick Airport Fuel Farm



Run by by Menzies Aviation, GASHCo is a major fuel farm at London Gatwick Airport providing Jet fuel to aircraft refuelling..

Fuel Farms operate on a 24/7 basis and lighting is a critical component for Operations, Security, HSE and CCTV monitoring. Traditional lighting systems that use High Pressure Sodium (HPS) are costly to maintain, energy intensive and often fail to comply with light pollution regulations. In addition, they offer poor colour rendering for CCTV systems

The challenge

GASHCo wanted to increase lighting levels at the fuel farm to:

- Make sure the working conditions for staff were as safe as possible.
- Reduce their maintenance costs due to the constant re-lamping of their current, conventional system.

At a glance

Sector: Aviation
Customer: Gatwick Airport
Location: London, UK
Fuel Flow Rate: 54,000 litres/min
Number of Tanks: 3
Project date: 2016
Hours of Operation: 24/7

LED floodlights installed: 60
Type: Titan Series
Energy Saving: 62.5%
Increase in light levels: 50%
Lux average values: 20 Lux



Our solution

Midstream's compact yet powerful Titan 160 was selected as the right product for this robust and mission critical application. Easy installation and quick turnaround time was paramount and with Midstream's experience of working at Gatwick airport we were the best option on both product, solution and service.

Before and after technical comparison

	SODIUM	LED
Number of projectors	113	113
Nominal power for single appliance	400W	167W
Absorbed power (measured data)	500W	167W
Total power absorbed	56.5 kW	18.9 kW
Energy consumption per year	247,470 kWh	82.655 kWh
Colour temperature	2,300K	5,700K
Colour rendering index	30	70
Average light level	10 Lux	20 Lux*
Uniformity	0.11	0.28
Energy savings	-	62.5%

*Loading areas are above 120 Lux.