



Case study DNATA

Location
Philips Lighting

DAFZA, Dubai
Philips Lightolier Smartbay, TCW216 & Lighting Controls

PHILIPS



“ Lighting a warehouse is a complex exercise. Large spaces to be covered, costs/carbon emissions to be considered yet adequate illumination is required, at all times. Thanks to Philips, we were able to integrate all these factors and come up with a solution that addressed these key criteria.”

Mr. David Harris, Director - Logistics Investment Support, Foreign Investment Office, Dubai Government.

DNATA; more for less



Fast facts

Client
Dubai Economic Department

Project
DNATA Warehouse Freight Gate – 5

Location
DAFZA, Dubai

Luminaires and controls
Philips Lightolier Smartbay, TCW216 & Lighting Controls

Lighting Support
Philips Middle East

The Background

DED had an ambitious goal: To help business and government manage energy and carbon costs. In association with DHL Neutral Services and DNATA, they were aiming to achieve competitive advantage through carbon reduction. And they strove to achieve operational efficiency and cost reduction, in alignment with organizational metrics and objectives. In this holistic exercise, lighting was one of the three major areas. A lighting audit was necessary, supplemented by a feasibility study, to help achieve the required results.

The Challenge

To achieve savings of 37% on the electrical load with zero compromise on the light quality in the current facility. The new lighting solution had to deliver this high saving percentage and replace the existing 400W metal halide high bays. It was also expected to work with lighting controls while offering the desired lux levels.

The Solution

Philips conducted an extensive study to determine the lighting requirements at the facility and innovated a lighting solution that delivered – and exceeded – on every pre-set parameter of the project. Energy savings were at the heart of the new solution and the desired lux levels were achieved too. Total energy saving: 39.38% – exceeded the target set by DNATA.

	Existing Installation	Philips Solution	Number of Fixtures - Existing installation	Number of Fixtures - Philips Solution	Connected Load - Existing Installation	Connected Load - Philips Solution
Warehouse Area	400W Metal Halide with 2X 58W TL-D with Conventional gear	18 Exceline 4X54W TL-5 SmartBay with Electronics gear	257	257	97200 W	57346 W
Loading Bay	1X150W Metal Halide with conventional gear	TCW 216- 2X54W TL-5 with Electronic gear	150	75	12930 W	8850 W
Outdoor Parking	2X36W TL-D with Electromagnetic gear	TCW216 – 1X54W TL-5 with Electronic gear	66	66	5610 W	3960 W
				Total Watt Load	115740 W	70156 W



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