

MARITIME PROJECT CASE STUDY

Terminal Intermodale Venezia (TIV)



TIV's location has made it the perfect meeting point between land and maritime transport for goods and commodities coming from, or going to, the Mediterranean, Black Sea, Middle and Far East and India. Dealing with both conventional and containerised modes of transport, it handles 320,000 TEU and anticipates a 10-15% growth in the next five years.

The challenge

TIV needed to:

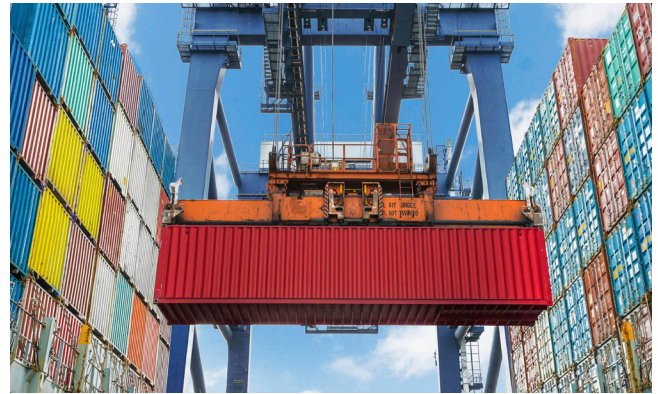
- Replace its outdated and highly inefficient 2kW HPS floodlights installed on aging high masts – without having to replace crowns or bracketry.
- Some of these masts were suffering from excessive weight loads. So, reducing wind exposed surface area and weight was paramount.
- The solution also had to guarantee a light level of 20 Lux – in a working environment often affected by dense fog.

So, they came straight to Midstream Lighting to help them meet these challenges.

At a glance

Sector: Maritime
Customer: TIV Terminal Intermodale Venezia
Location: Italy
Working area: 130,000m²
Project date: 2017
LED floodlights installed: 60
Type: Titan Series

Number of masts: 6
Increase in light levels: 50%
Energy Savings: 62%
Lux average values: 20 Lux



Our solution

We installed our Titan 720 floodlights, which thanks to the compact size and flexible mounting options had no problem fitting on the existing structures. Their high lumen output also guaranteed the required light level in a true 1 to 1 replacement, light spill was reduced to zero, helping to cut the light pollution of the terminal, which sits in the lagoon opposite the famous San Marco Square.

Before and after technical comparison

	SODIUM	LED
Energy consumption per year	483,750 kWh	181, 890 kWh
Colour Temperature	2,700K	5,000K
Colour Rendering Index	25	70
Average Light Level	20 Lux	20 Lux
Uniformity	0.11	0.28
Energy Saving	/	62.5%