



SHOWCASE

PCK refinery – Schwedt, Germany



The new control center at the PCK refinery in Schwedt is housed in an explosion-proof and therefore windowless building. In cooperation with the Fraunhofer Institute for Industrial Engineering (IAO), Lichtvision Design and LightLife, the company responsible for design planning and implementation, a lighting concept was developed that creates a pleasant working atmosphere for the employees even without daylight. Innovative LED modules and lighting control from Traxon and e:cue play a major part.

The PCK refinery in Schwedt/Oder turns around 12 million tonnes of crude oil into mineral oil and petrochemical products each year. The company's new control center is located in an explosion-proof and windowless building. The Fraunhofer Institute for Industrial Engineering (IAO) and Lichtvision Design have therefore designed an LED ceiling lighting system which provides a pleasant working atmosphere for the employees even without daylight.

To achieve this, LightLife developed a special video shader with which different weather patterns can be simulated via random generators. Depending on the time of day, cloudy skies with different color temperatures, brightnesses and cloud formations are generated.

Together with the Fraunhofer Institute the values were matched to one another according to the latest scientific findings to ensure optimum conditions for a 24-hour shift operation. In addition to cloudy skies, there are airplanes and birds flying across the light ceiling every now and then, and shift changes are accompanied by colorful mood lighting.

The 108 square meter video light ceiling comprises a total of 1,724 Traxon 16 PXL Board RGB LED modules. 8 e:cue Video Micro Converters (VMCs) convert the digital video signals to e:pix control signals.

FEATURED PRODUCTS

METHOD OF CONTROL

PROJECT DETAILS



16PXL Board RGB

Category: Hospitality
Location: Schwedt, Germany
Lighting Designer: Lichtvision Design
Installer: LightLife
Client: PCK Raffinerie GmbH
Completion Date: Dec 2016