



## case STUDY

## ●●● Fuel Stations

### CLIENT - PAZ

Paz is the leading energy company in Israel. Established in 1922, the company initially operated under the Shell brand name. Today, Paz's services include: fueling stations, corporate automatic fueling cards for vehicle fleets, LPG gas distribution for residential and industrial users, distribution of lubricants and chemicals, aviation refueling services, transportation services and many others including rest stops, convenience stores and car wash services located at Paz roadside fuelling stations.

Paz holds about 30% of the Israeli domestic fuel market. The company has 257 fuelling stations, constituting about 28% of the country's total fuelling stations, spread throughout major highways and cities of the country. Lighting in Paz fuel stations consists of 400W Metal Halide lamps installed in the roof above fuel pumps, area lighting and lighting for illuminated billboards. Lighting costs at Paz's fuelling stations constitute a significant part of the corporation's operational costs and a solution to reduce this was sought.

### SOLUTION

Power Electronics System (PES) proposed installing its Lighting Energy Controllers at 140 Paz stations which operate 24x7. After analyzing Paz's specific requirements and needs, the LEC B Super was selected for this project. LEC B Super has a built-in astronomic clock that enables defining exact time for switching on/off lights and scheduling activation of an electricity saving mode. Each station has been equipped with one LEC B Super controller in the range of 3x20A up to 3x50A to match the electrical and lighting circuit configuration.

### RESULTS

Following the positive results of the initial deployment, the next stage of this project will be extending energy saving applications to convenience stores (including restaurants) at Paz fuel stations throughout the country. This extension of Lighting Energy Controllers deployment will see Paz benefit from additional savings in lighting energy and costs. According to PAZ reports annual financial savings are estimated at over USD 120,000.

PES Lighting Energy Controllers proven to be a viable solution for electricity costs savings at fuelling stations

Savings of  
**18% - 24%**  
in lighting electricity

Built-in astronomic clock for operating roof and outdoor lights exactly when needed

One system for Metal Halide, HPS and fluorescent lighting circuits

Solutions implemented  
LEC B Super, LEC A  
3x20A – 2x50A



## CLIENT - OMV

OMV, Austria's largest listed industrial company, is the leading oil and gas group in Central Europe. OMV has explorations and production activities in 18 countries on five continents. In 2004 OMV successfully acquired 51% over Romanian oil and gas group Petrom SA including the network of fuel stations.

## SOLUTION

Power Electronics Systems and its Romanian distributor LANTEK, have successfully installed LEC A controllers in all 72 OMV fuel stations in Romania. Each station was equipped with one LEC A device for saving electricity in outdoor lighting (metal halide lamps) and in convenience stores (fluorescent). Most of the fuel stations operate 24 hours a day.

## RESULTS

The project was carried out in 2006, after which OMV reported over 20% savings in electricity costs.

During 2007, PES installed its Lighting Energy Controllers in additional fuel stations throughout the world, including Sonol in Israel, Rompetrol in Romania and BP in Poland.

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