

SOTECA
electric

**SMART
CITY**

CE ISO 9001

A nighttime photograph of a city street. In the foreground, the rear of a dark-colored car is visible. The street is illuminated by streetlights, and palm trees line the right side. In the background, a traffic light is visible, showing a green light and the number '40'. The sky is dark, and there are some red flags hanging from a pole in the upper left.

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electric

**TRAFFIC
LIGHTS**

CE ISO 9001



SOTECA Electric, a limited liability company with a capital of TND 1,800,000 and subsidiary of the HAKIM Group, is specialized in the realization of electrical works.

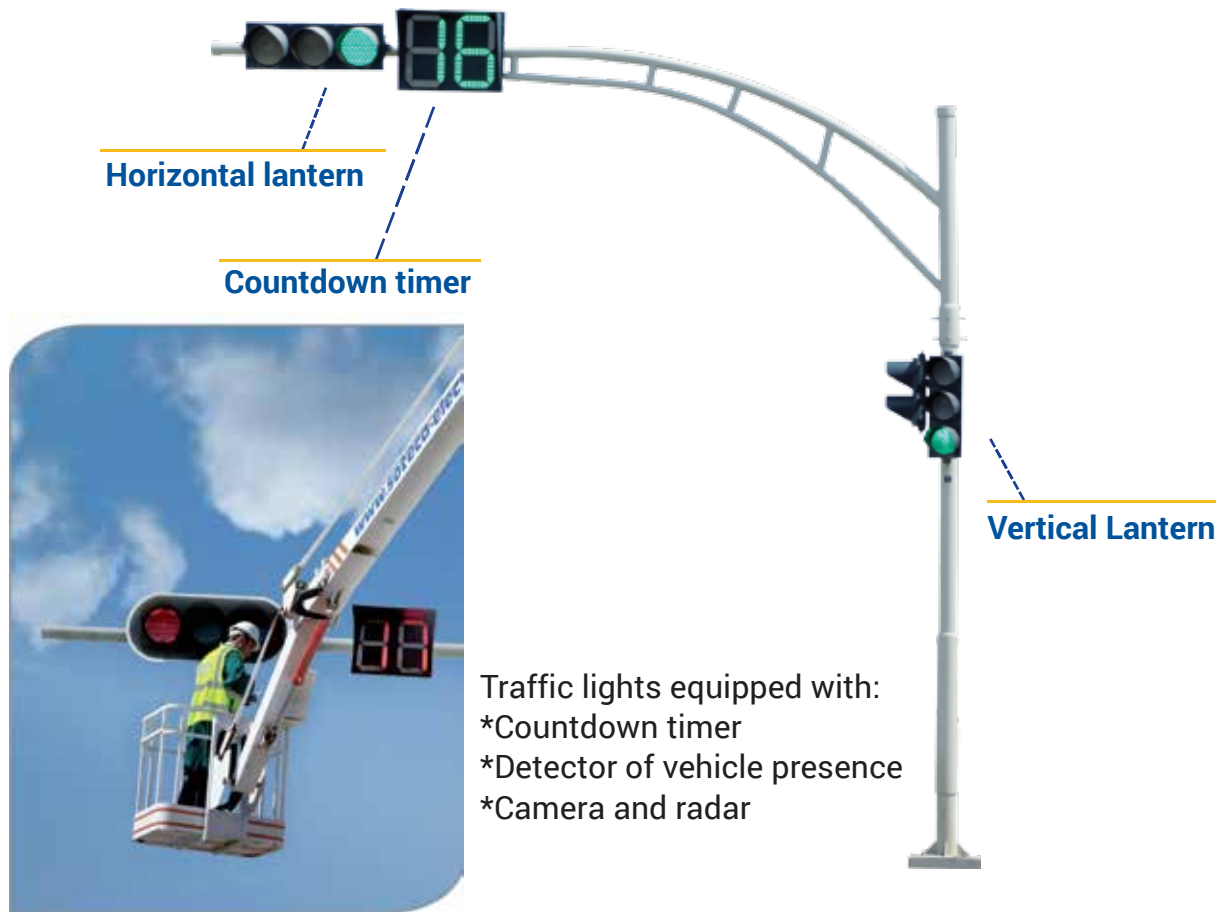
Since its inception in 1994, SOTECA has been growing steadily, and now it is one of the leading companies in the electricity sector in Tunisia with an ever-increasing presence on the international scale.

With experience and know-how unrivalled in Tunisia, SOTECA Electric's engineers carry out the study and design as well as the commissioning of electrical switchboards, wiring of electrical cabinets, electrical works, transformer stations, lecterns and synoptics, automation and instrumentation works, energy efficiency, photovoltaic, GTB-GTC, maintenance and technical assistance, public lighting, and traffic management.

Thanks to its interest in new technologies, the dynamism and competence of its team, SOTECA Electric has become a leader in the field of road traffic management. Our solutions range from ordinary traffic lights to intelligent traffic lights, parking management and remote traffic control from control rooms.



Traffic lights



Horizontal lantern



Pedestrian lantern



Vertical lantern



TRICOLOR LANTERN

- *Vertical and horizontal mounting
- *LED lighting
- *High brightness
- *Low energy consumption
- *Guarantees 24/7 operation in the harshest environments
- *Animated pedestrian lantern



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COUNTDOWN TIMER

- *Self-learning cycle times
- *LED display
- *High brightness
- *Low energy consumption
- *Counting of the time allowed for each traffic lane



Ain road - Sfax



Teniour road - Sfax



Soukra road - Sfax



Traffic light equipped with a surveillance camera
Mahdia road (Moulin rouge)



Projects

VEHICLE PRESENCE DETECTING CAMERA

Environmental benefits:

- *Minimize waiting time
- *Saving energy (fuel consumption)
- *Minimize exhaust emissions

Technical advantages:

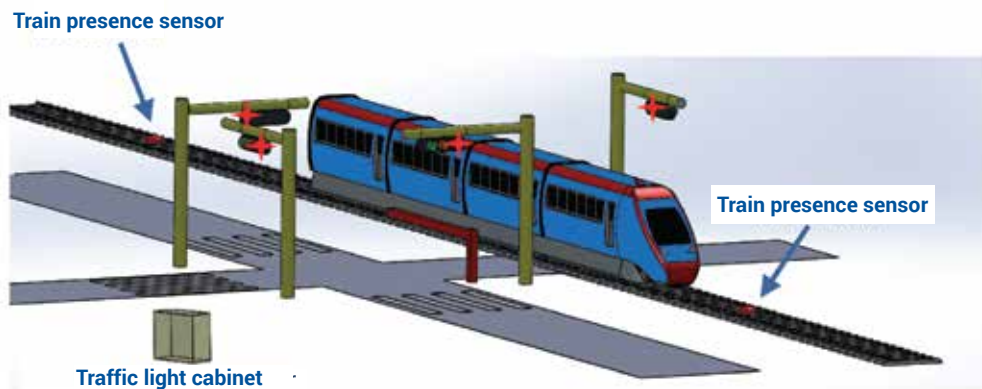
- *Flexibility and ease of use
- *Flexible software: remote configuration and update
- *Traffic statistics: number and speed of vehicles.

Decision support: Adaptive regulation of cycle times.



Traffic lights with presence detector
By-pass Kaid Mohamed

SYNCHRONIZATION WITH THE TRAIN TRAFFIC



Synchronization of light control with the passage of the train

- *Detecting the passage of the train
- *Ensuring the safety of road use

References:

Sakiet Ezzit crossroads, Mahdia Road (Moulin rouge)

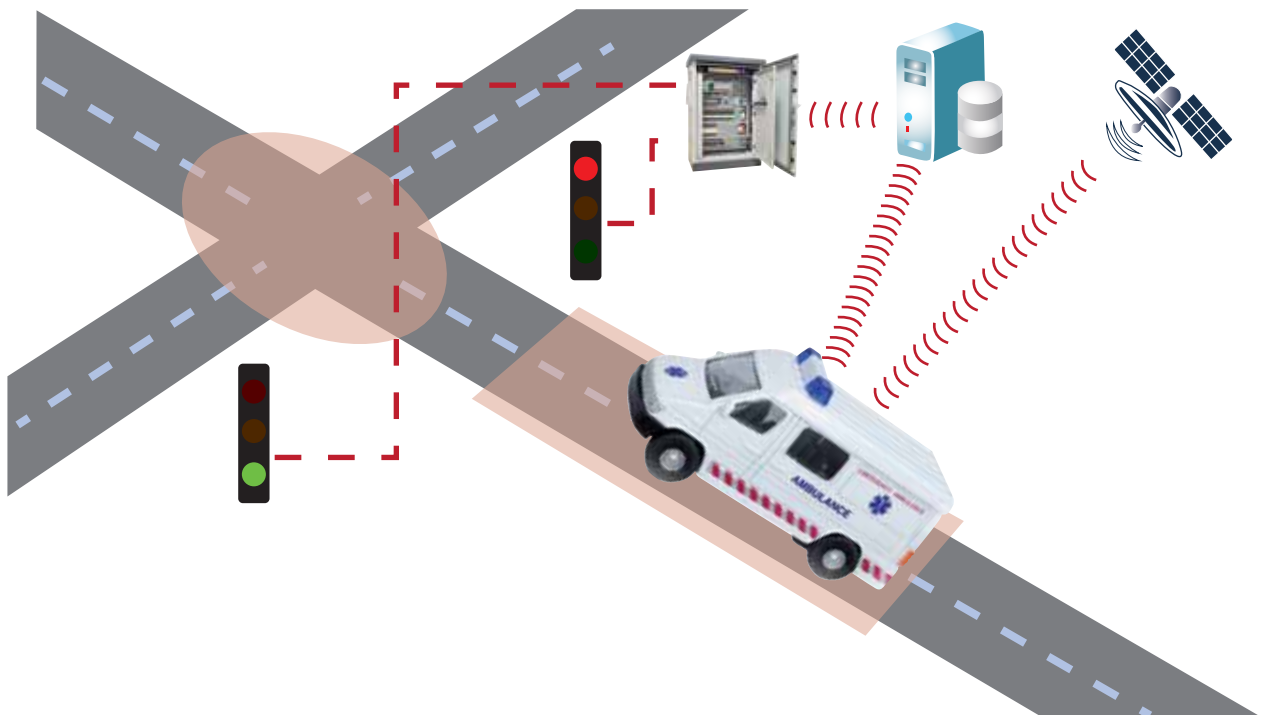


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PRIORITY VEHICLE



It is a system of pre-emption for priority vehicles. It is applicable for ambulances, firefighters and public transport. The GPS location data of the priority vehicle is transmitted to a data server. This server communicates with the control panel based at the corresponding intersection, adjusts the traffic light cycle in a progressive way and gives priority to the detected vehicle.



Closed Area Parking

- *Detection by presence sensors
- *Display of available areas
- *Guidance to available parking spaces
- *Improving parking management



Outdoor display



Presence sensor
Parking Ooredoo Les berges du Lac





Parking Open Zone



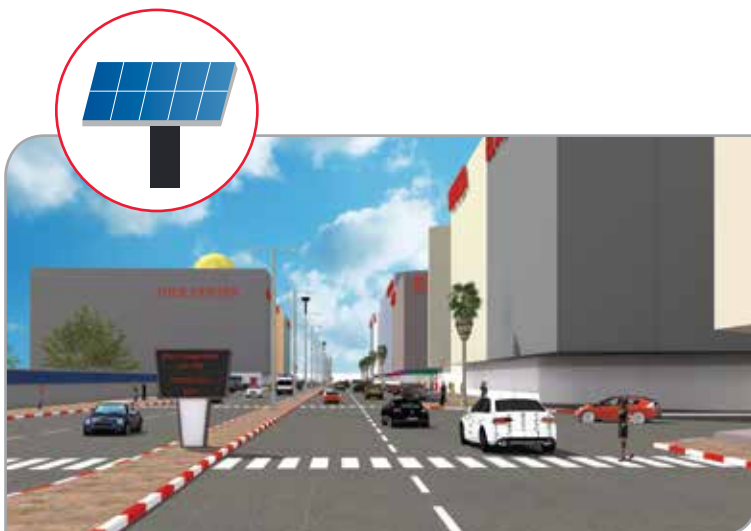
Radio/Wi-Fi wireless sensor

- *Vehicle presence detection
- *Battery autonomy > 5 years
- *Remote configuration, management, parameter setting and maintenance
- *Radio/Wi-Fi communication



Outdoor display

- *Display of available areas



Communication box

- *3/4 G, Radio/Wi-Fi
- *300 m range in street lane



Retractable bollards

- *Block the passage of vehicles
- *Prohibit passage or parking
- *Terminals with local or remote automatic control



Control room



Wall-Screen Monitor

- *Remote management of traffic lights, car parks and surveillance cameras
- *Remote control, modification and updating of operating parameters
- *Reliability and safety of use



Digital Display



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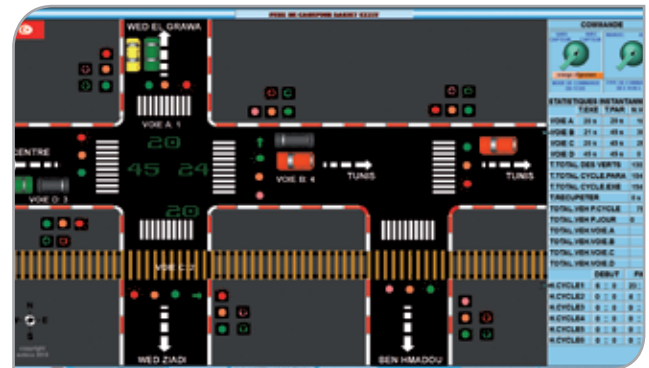
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Supervision and distance control



SCADA SYSTEM:

- *Remote control and monitoring
- *Remote intervention
- *Modification of parameters and operating modes (with/without sensor, automatic manual)
- *Presentation of measurement data, taking statistics in real time
- *Number of vehicles per lane
- *Total vehicle passing per day
- *Archiving all data



Supervision view

SENSOR SETTINGS:

- *Definition of detection zones
- *Visualization of traffic flows per lane
- *Calculation of the number of vehicles



Sensor view

By-pass Kaied Mohamed Sfax

VISUALIZATION OF CROSSROADS:

- *Visualization of the traffic light condition
- *Monitoring of traffic flows
- *Anti-vandalism



Camera view

Mahdia road, Habib Bourguiba Avenue,
Ain road – Albia Avenue – By-pass N°4 Ain road

Equipment



Lantern countdown timer (Small size)



Countdown timer (Big size)



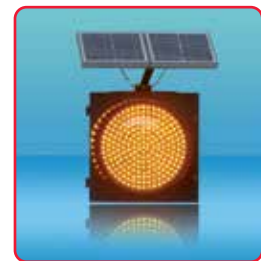
Horizontal lantern



Pedestrian lantern



Vertical lantern



Solar lantern



Road studs with solar LEDs



Parking lock



Radar Camera

- *Safety of vehicular and pedestrian passage at intersections
- *Photos, video and information on red light violation
- *Vehicle images and license plate information



Surveillance camera

- *360° rotating camera
- *High precision and zoom capability
- *Security and real-time monitoring of intersections



Presence Detector

Equipment



Crossroads Lights Cabinet



Automat



XP 30 Display

- *Maximum tightness
- *Outdoor use

- *Programmable automat with XP 30 display (touch, high resolution color)
- *Display of faults, cycles, time settings
- *Cycle settings
- *Display of light status

OTHER SOLUTIONS:

Monitoring via Controller



- *Controller with output modules (12, 24, 32) allowing the possibility of programming the operating cycles in manual or automatic mode.

References:

Crossroads lights Gremda road, Affran, Ain, Sakiet Ezzit, Kaid mohamed, Gabes road, Habib Bourguiba Avenue, Mahdia road (Imm. Sabra), 5 Août Majida Boulila Street, Crossroad part of Teniour road.



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