



# Premier petrol service stations for Iraq

SINCE THE IRAQ WAR ENDED IN 2011, THE 38 MILLION PEOPLE COUNTRY IS RAPIDLY DEVELOPING IN MANY AREAS, AMONG WHICH ITS INFRASTRUCTURE. QAIWAN GROUP, A LEADING CONGLOMERATE IN IRAQ WITH KEY INTERESTS IN REFINING, POWER GENERATION AND REAL ESTATE DEVELOPMENTS, PLANS TO ROLL OUT A MODERN PETROL STATION NETWORK IN OTHER PARTS OF THE COUNTRY.

Qaiwan Group, industry leader in the Northern part of Iraq - Kurdistan - owns the Bazian refinery in the northern part of the country and operates several petrol stations in that area. Its retail department is now planning to expand its network to other parts of Iraq, designed with latest technology and environmentally friendly systems.

## International standards

Tebodin developed a concept design with various options for these petrol service stations. 'The challenge was to



Darek Szymonik

establish the correct requirements for each station type as the plot sizes and station parameters were undefined. In order to generate a design basis, we rolled out queries, defined performance and physical parameters, and applied modelling techniques for the selection of layouts and variety in options', explains Tebodín's Project Director Darek Szymonik. Qaiwan's Executive Director Mr. Rowan Jamal adds: 'The conceptual design will follow local and international standards as a reference for our operating model'. This project is part of the framework agreement Tebodín and Qaiwan signed in 2012. Previously Tebodín performed detailed design projects for the Bazian refinery.

## Country's first premier facilities

New technology and sustainable solutions will be implemented in this project. A vapour recovery system is suggested for the gasoline dispensers to help save a significant amount of gasoline per day. Darek: 'Qaiwan has a

strong focus on environmental friendly solutions, so we proposed a modular water recycling unit to conserve car wash water by recycling and reusing the water for car washing. This is expected to save about 40 to 50% of the required water. A solar photovoltaic system, as an alternative (renewable) energy source, is proposed to use on-grid. All available roof areas will be used for solar panels. This is expected to generate 30 to 40% of the total electrical consumption. Last but not least, the design is carried out using BIM technology (Building Information Modelling) for easy development of different options and to have a final 3D walkthrough product available for presentations'.

'The project is envisioned to be the first modern category of petrol stations in Iraq offering premier, environmentally friendly facilities to the customer', concludes Mr. Jamal. ■