03/05/02

UK Engineering Software Company Offers Speedy Relief for Iraq's thirst.

A UK engineering software company pioneering software to help water engineers design inexpensive and effective water and sewage treatment plants in Iran, hopes war torn Iraq will benefit from its expertise.

The Flowmaster Group is urgently talking to Government agencies about the benefits of flow systems engineers using its specialist knowledge and IT tools for the mammoth task of rebuilding clean water and waste water distribution systems quickly and efficiently.

The internationally acclaimed business is confident bomb blasted communities facing thirst, disease and death in Iraq will benefit financially and physically from the unique computer modelling system already transforming lives in the Middle East and elsewhere.

The Northampton based company believes the coalition or future Iraqi government will save countless research hours by employing flow systems engineers using its skills and technology.

The UK software business has many strategic partnerships with flow systems engineers around the world and hopes to have a similar relationship with top Iranian engineering company Mahab Ghodss, which has recently purchased the system for difficult projects in Iran. Lessons learned are expected to impress project managers and water engineers plotting current and future water needs in Iraq.

Richard Tickle, Flowmaster Group Managing Director said: "We have been instrumental in the design of thousands of fluid flow and thermo-dynamic systems in many varied applications, saving customers time and money, helping to improve the world's technology base and making a positive difference to people's lives around the world. We are confident we can help the devastated families in Iraq."

Recognised as the leader in its field, the Flowmaster system has been tailored for the design of all types of automotive fluid systems, as well as space technology, aircraft, ship, power generation, process and petrochemical, water and gas utilities in USA, Europe and the Pacific Rim.

Knowledge gained over the years allows the Group to bridge the gap between engineering and computer science so that customers can meet tough challenges. Case studies prove the technology saves developing companies millions of pounds, and, the company plans to bring them to the attention of UK and US agencies making decisions about rebuilding Iraq's infrastructure.

Today, the water industry has to meet the high expectations of its customers on:

- Water quality
- Constant supply
- Lower costs

Flowmaster helps engineers in many areas of the water industry to:

- Predict water distribution to meet cyclic demands
- Optimise pump station sizing and energy consumption to minimise
- pumping costs
- Predict pressure surges to ensure safety and pipe integrity
- Size piping systems
- Provide quantities data to base cost decisions on when upgrading existing equipment/systems

One of the cases likely to be of interest, apart from the work in the Middle East, is the assistance given to the Australian Electricity Company (AUSTA) which almost cut 40% of the electricity generating capacity in Queensland when a four-year drought caused a lack of cooling water.

Austa had to address the problem swiftly with a new 78km pipeline to augment the supply and praised Flowmaster Group for the significant role it played in the accurate, fast and safe design of its new system.

Iranian Project
The current project with Iranian engineering company Mahab Ghodss is a large clean water and waste water distribution system for a major city with millions of people. Both companies are involved in an additional project to develop a water distribution system to cope with the demands of the increasing population, ensuring the City has the basic standards of water and waste services to promote future growth and prosperity. The water and research department of Mahab Ghodss has previously designed treatment plants for densely populated cities, including Tehran.

Andrew Pearson, Managing Director of Flowmaster UK who was in Iran during the latest Gulf War and has just returned, said: "The population of Tehran has grown significantly over the last 25 years. In 1939 the population was only 0.5 million. It is now estimated at nearer 12 million. Since the end of the Iraq/Iran war more people have moved back to cities and the infrastructure is groaning under the pressure"

"London faced a similar situation many years ago when its old fashioned Victorian system needed replacing. Our customer, Thames Water, which is responsible for the London water system, was faced with the task of working out future needs and rebuilding a complicated system with minimum disruption. Tehran will be exactly the same. Projects include water distribution networks for the water main systems delivering clean water for families and offices workers as well as sewage treatment plants for waste water."

It is not just work in the cities. Mahab Ghodss have been active in employing various methods of hydropower generation for many years. It's Dam and Hydropower Department has successfully designed and supervised many hydropower plant structures, reservoirs, head works and tunnels. Computer models have been used to great advantage simulating the power generation potential of complex systems, resource appraisal, feasibility assessment and system modelling.

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