Do you have enough power to make this water drinkable?

An island with no permanent lakes or rivers depends on underground water to sustain its land and people. Desalination is an energy intensive process to remove salt properties from water to make it drinkable. Water purification can become an expensive endeavor, especially when you factor in the cost to generate the electricity to power those water desalination plants using other natural resources like oil or coal.

Conservation Creates Water

Enemalta, the island of Malta's electric utility, replaced 250,000 utility meters with smart meters that monitor electricity use in real-time. They have set variable rates toreward customers who take steps to reduce power consumption. Sensors strategically deployed along transmission lines and on substations provide information about the grid's integrity to more efficiently manage distribution and detect potential problems. This new smart grid, integrating both water and power systems, allows the utilities to more intelligently plan their investments in the network and reduce inefficiency. By addressing the issues of water and power as an integrated system, the Maltese government can provide citizens with better information to make smarter decisions about efficient energy and water consumption.

Solution Architecture for Energy and Utilities (SAFE) Framework

The Solution Architecture for Energy and Utilities Framework (SAFE) is an innovative, powerful software platform that helps provide network visibility and control, process automation and business collaboration for solutions across the energy and utility value chain.

The framework delivers utility business functionality with industry standards to facilitate integration between applications and devices across the utility business domains. It is flexible and allows the utility to build a plan that leverages this functionality over time based on business needs.

The Solution Architecture for Utilities and Energy Framework strengthens line-of-business and IT collaboration by supporting seven software capabilities critical to smarter Energy and Utility solutions.

- Asset, Device and Service Monitoring
- Asset Lifecycle Management
- Informed Decision Making
- Improved Customer Experience
- Business Process Automation
- Regulatory, Risk and Compliance Management
- Security Solutions

IBM Business Partners augment the Solution Architecture for Energy and Utilities Framework when they enable their solutions on one of the seven framework software capabilities. IBM Business Partner applications enhance the framework, reducing the need for internal integration testing by providing pre-certified compatibility between solutions. Utility companies are better able to accommodate new requirements and components, further streamlining operations. These validated solutions drive innovation by deploying new applications faster and integrating them more easily.

For More Information

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