The water cycle is often cited as an example of a self-sustaining and self-replenishing natural phenomenon. Yet the ready availability of clean water is not to be taken for granted. This issue of *ABB Review* looks at ABB's contribution to the water supply.

The front cover shows the skyline of Singapore with the Marina Barrage pump house in the foreground. This massive project, using ABB motors, protects low-lying parts of the city from flooding while meeting one sixth of the city-state's water needs. The inside front cover shows another pumping station. Toshka in Egypt.



Water supply and conservation

6 Getting fresh water from the sea

ABB's variable speed drives turn the wheels of desalination technology

11 Downloading the cloud

The Spanish experience of smart irrigation with Neptuno

17 Managing water use responsibly

ABB technology helps the process industries achieve sustainable water use

Water control and distribution

23 AquaMaster 3™

Remote water metering with Internet delivery of water-leakage management

29 Every drop counts

Increasing the efficiency of water distribution

34 Introducing Symphony™ Plus

Total plant automation for the power generation and water industries

36 ABB service in water

Provision of eBOP service to world's largest covered wastewater treatment plant

Water and efficiency

39 Water of life

Sustainability and energy efficiency in the water industry

44 Clever pumping

ABB all-in-one drives make the water industry's pumps intelligent

Technology focus

48 Submarine link

Submarine HVAC power cable to the floating oil and gas platform at Gjøa

55 The frugal manufacturer

Part 2, Analyzing industry's commitment to improvement

60 ServicePro 3.0, global best practices

Maximizing ABB service efficiency worldwide

Index 2011

61 Index 2011

The year at a glance