

# Energy Efficiency in the Water Industry

Available as eBook only.

Over the last decade, energy consumption by the water sector has increased considerably as a consequence of the implementation of new technologies to meet new potable water and effluent quality standards. The price of energy has also substantially increased and these increases will be compounded by the need for additional energy intensive processes to achieve more exacting regulatory requirements.

This GWRC Compendium draws together the best practice in energy efficient design and operation of water industry assets.

**Energy Efficiency in the Water Industry** identifies the developments and future opportunities by detailed examination of current best practice and technologies. It illustrates:

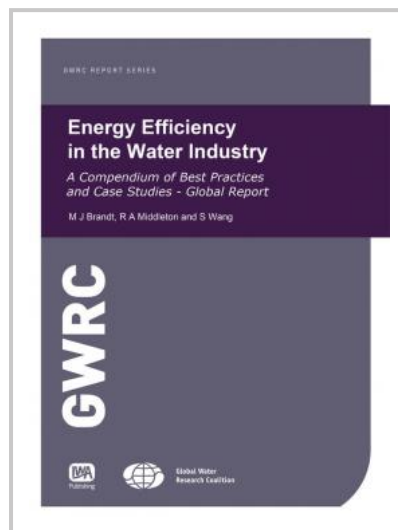
- Incremental improvements in energy efficiency through optimisation of existing assets and operations.
- More substantial improvements in energy efficiency from the adoption of novel technologies.
- Successful case studies based on results of full scale operations

This compendium is an invaluable reference for water engineers, utility managers, and water and energy professionals.

## Table of Contents

Introduction; Methodology, Global project, Project, Scope; Results, Water Transfer and Distribution, Pumps, Blowers and Compressors, Mixers, Dissolved Air Flotation (DAF) process, UV Treatment, Sludge Thickening and Dewatering, Sludge Digestion, Sludge Drying, Building Services, Renewable Energy; Discussion, Energy usage and improvement estimates, Case Study Returns, Subject Area Results; Conclusions, Energy usage, Potential Savings – Pumps, New Technology – Pumps, Potential Savings – Process, New Technology – Process, Sludge, Building Services, Renewable Energy, Future Energy Balance; Recommendations.

Also available as part of your Water Intelligence Online subscription



**Publication Date:** 14/08/2012

**ISBN13:** 9781780401348

**eISBN:** 9781780401348

**Pages:** 438

## Print:

**Standard price:** £37 / €46 / \$56

**Member price:** £28 / €35 / \$42

## eBook:

**Standard price:** £37 / €46 / \$56

**Member price:** £28 / €35 / \$42