



Handbook of Water and Energy Management in Food Processing (Woodhead Publishing Series in Food Science, Technology and Nutrition)

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Effective water and energy use in food processing is essential, not least for legislative compliance and cost reduction. This major volume reviews techniques for improvements in the efficiency of water and energy use as well as wastewater treatment in the food industry.

Opening chapters provide an overview of key drivers for better management. Part two is concerned with assessing water and energy consumption and designing strategies for their reduction. These include auditing energy and water use, and modelling and optimisation tools for water minimisation. Part three reviews good housekeeping procedures, measurement and process control, and monitoring and intelligent support systems. Part four discusses methods to minimise energy consumption. Chapters focus on improvements in specific processes such as refrigeration, drying and heat recovery. Part five discusses water reuse and wastewater treatment in the food industry. Chapters cover water recycling, disinfection techniques, aerobic and anaerobic systems for treatment of wastewater. The final section concentrates on particular industry sectors including fresh meat and poultry, cereals, sugar, soft drinks, brewing and winemaking.

With its distinguished editors and international team of contributors, Handbook of water and energy management in food processing is a standard reference for the food industry.

- Provides an overview of key drivers for better management
- Reviews techniques for improvements in efficiency of water and energy use and waste water treatment
- Examines house keeping procedures and measurement and process control

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