

"eBriefing on Resource Efficiency" Reed Consulting Bangladesh Ltd.



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Why measure water use?

Factories use substantial amounts of water and energy during production. In order to have control of energy and water use the first step is to confidently know the amount of water and energy used.

Metered and controlled use of water and energy enables efficient management of production, control of inputs and production quality improvement.

Most inland surface water in Bangladesh is polluted to the extent that it cannot be used for industrial purposes or made fit for drinking. Industrial and drinking water extraction from the aquifers has now passed the point where it is sustainable and the level drops year by year.



Rainwater harvesting is beginning in some factories but it will take a significant period of time before rainwater harvesting and surface water treatment can substantially replace industrial water extraction from the aquifers.

A factory's ability to 'prove' minimised water use during production will be a market advantage for the future.

Advantages from measuring the use of water

Minimising wastage reduces the negative impact of production process on the natural environment and it

reduces your factory's production costs. Reliable information about water used in production enables managers to calculate production costs more accurately. Reliable metered data of the amounts of energy and water used also enables negotiation of selling prices with confidence based on accurate production costs.



Analysing results from metering makes it possible to specify factory water KPIs (Key Performance Indicators). Full metering and careful monitoring improves management control and assists in minimising waste of utilities and of finance. With control based on the data reported in 'real time' it is possible to budget for a reduction of the inputs required to produce finished products. With full energy and water metering in place factory managers will be able to identify and continually improve KPIs.

This is the first of a series of **eBriefing on Resource Efficiency** and future monthly briefings will focus on topics summarised in this eBriefing including:- 'how to select a water meter' and 'how to set and reduce KPIs'.

For further information about engineering consultancy and waste and energy and water minimisation please contact our Principal Textile Engineer Mohammad Abbas Uddin abbas.uddin@reedconsultingbd.org.

RCB provides consultancy in Energy Efficiency, Process Improvement, Water Minimisation, Cleaner Production, Occupational Health and Safety including Electrical System Assessment.

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