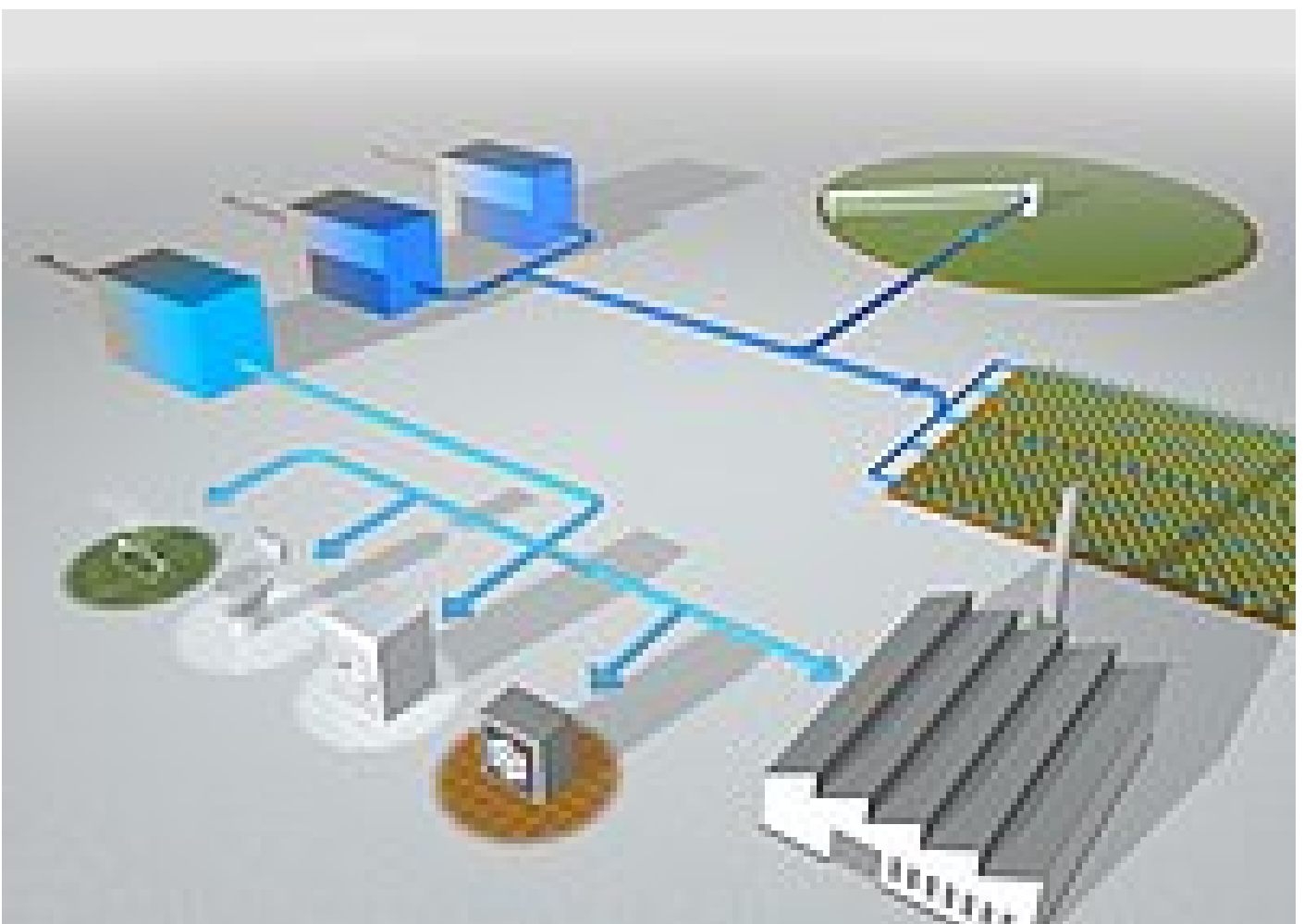


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## Energy Efficiency by Wastewater Reuse





Reuse of treated wastewater, e.g. for irrigation or as service water, saves water and power for its supply. This is particularly the case where:

- water is in short supply and has to be produced by expensive and power consuming processes; e.g. power consumption of desalination is around 4.0 kWh/m<sup>3</sup>.
- water is supplied from far away; e.g. power consumption of water supply in Southern California is 2.3 kWh/m<sup>3</sup>.
- water is produced from surface water with a power consumption of 1 – 2 kWh/m<sup>3</sup>.

Costly and energy consuming nutrient removal is usually not desired. Nutrients add value to irrigation water.

Wastewater treatment processes depend on the required reuse water quality. In some cases mechanical/chemical treatment (See HUBER MeChem® Solutions) is sufficient while in other cases excellent effluent quality of [membrane bio-reactors \(MBR\)](#) is required.

[HUBER ReUse Solutions](#) offer a wide range of options.

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