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When most people think of energy shortages that put big demands on the economy, they tend to think of gas and oil. But water is fast becoming one of the most precious resources on earth. That looming shortage increases the urgency for professional industrial process water treatment methods, systems and infrastructure.

Untreated Water Can Disrupt Industrial Processes

Industrial process water treatment is necessary because superior water quality is essential for many manufacturing procedures. A high level of mineral content in water, for example, may create unwanted problems such as streaking and spotting during the application of industrial coatings. Minerals can build up on the components of industrial boiler equipment too, causing scaling. That reduces their performance and energy efficiency, adding to the cost of operations. In order to clean parts and remove scaling it may also be necessary to shut down manufacturing operations, a step that can dramatically reduce production and increase expenses.

Addressing a Wide Range of Problems

Thanks to proper industrial process water treatment, the management of water resources becomes much more effective. This has a positive impact on the natural environment as well as the bottom line revenues of manufacturing companies. Expert treatment can, for instance, reduce the presence of unwanted color, grease, oil, bacteria, turbidity, acidity and organic compounds. There are many sophisticated methods available to accomplish this kind of desirable water preservation and control. Among these are dealkalization, demineralization, decarbonation, nanofiltration, ultraviolet disinfection, and electrodeionization.

Advanced Blowdown Solutions

Another common issue industries face is â€œblowdown.â€• This refers to the stage when water is bled ou of boilers. Since water contains minerals, as the water evaporates into steam the concentration of mineral particles left behind increases. Soon those sediments reach levels that compromise the function of equipment. Proper treatment can, however, significantly reduce the volume of blowdown. This not only preserves more of the valuable chemically-treated heated water, but it also reduces foaming, corrosion, and other conditions that can result in process water impurities, damage to water lines, and reduced equipment longevity.

As the US economy improves, manufacturers will in kind increase production, and industries will ramp up to meet renewed demand. With the help of industrial process water treatment technology, they will be able to contribute to the economy while reclaiming precious resources, using less energy, reducing wasteful expenditures, and improving their revenues. Water as an industrial resource is precious, and astute manufacturers pursue the wisdom of water professionals in order to acquire the many benefits of quality industrial process water treatment.

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