

Understanding the energy chain



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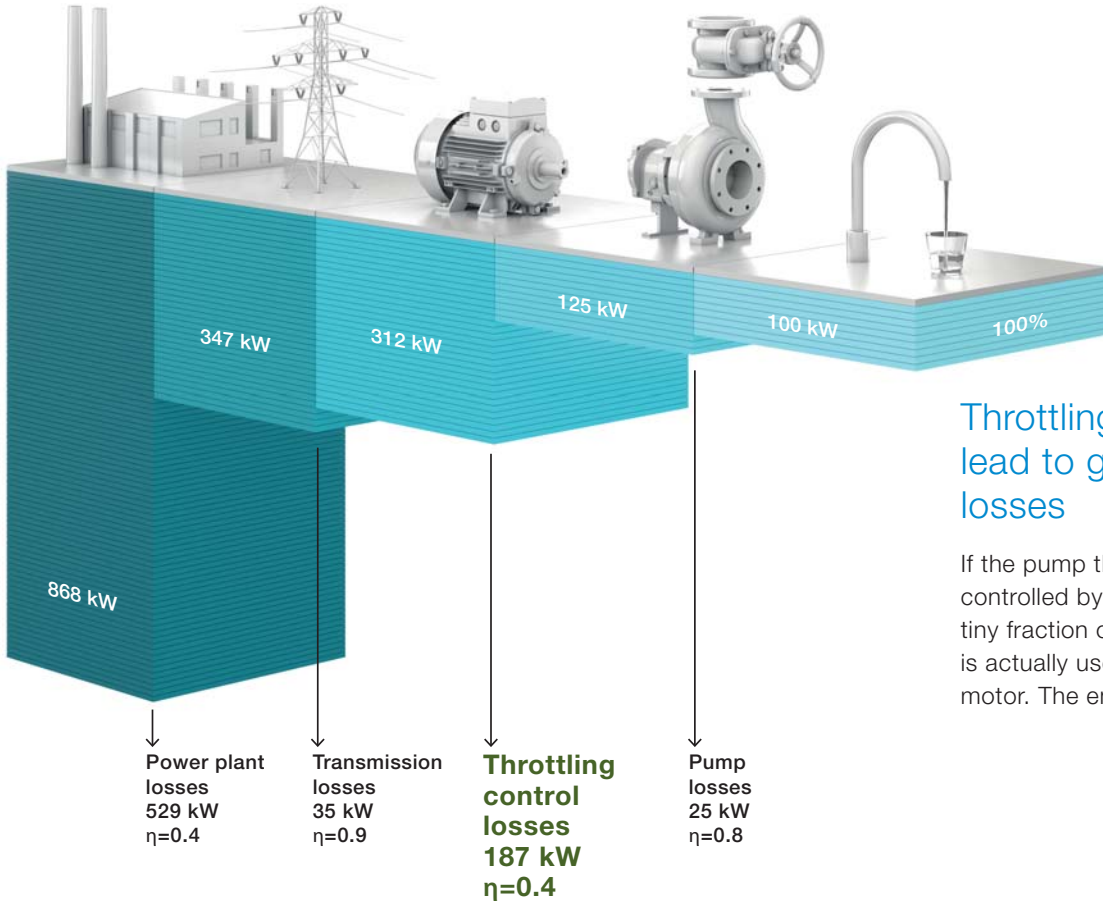
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We know that when it comes to cutting down energy losses, everything counts.

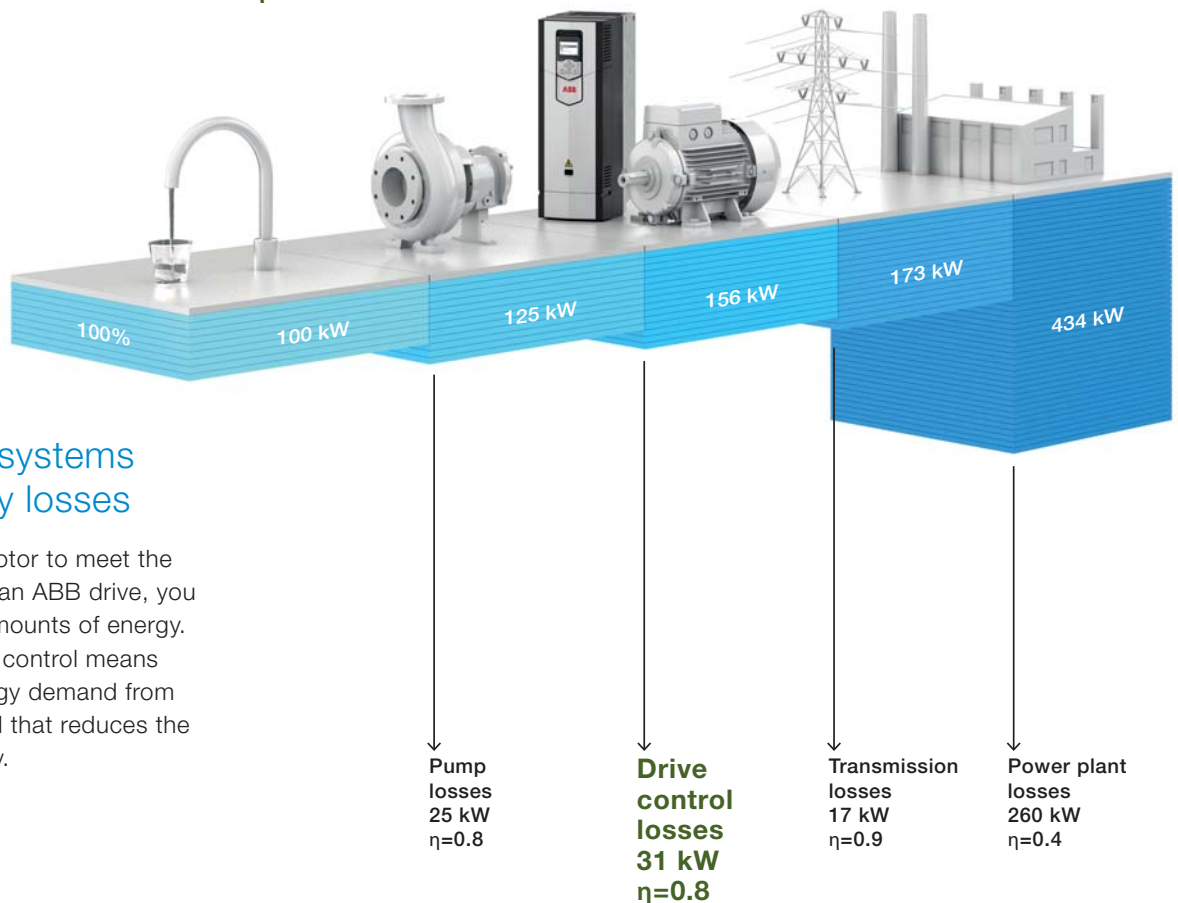
Did you ever think about how much power is used to fill a glass of water?

If you look at the glass of water as a metaphor for any application where a motor is used, understanding where the power losses occur is just good for your business. Knowing what you can do to reduce those losses is even better. Let's look at the power needed and how to reduce the losses.



Throttling control systems lead to greater energy losses

If the pump that fills your glass is controlled by throttling valve, only a tiny fraction of the energy transmitted is actually used to power that pump's motor. The energy losses are huge.



Drive control systems reduce energy losses

By controlling the motor to meet the actual demand with an ABB drive, you can save massive amounts of energy. More efficient motor control means you reduce the energy demand from the power plant, and that reduces the losses along the way.