Written by Jane Alexander, Editor with John Schulkins, TAS Online
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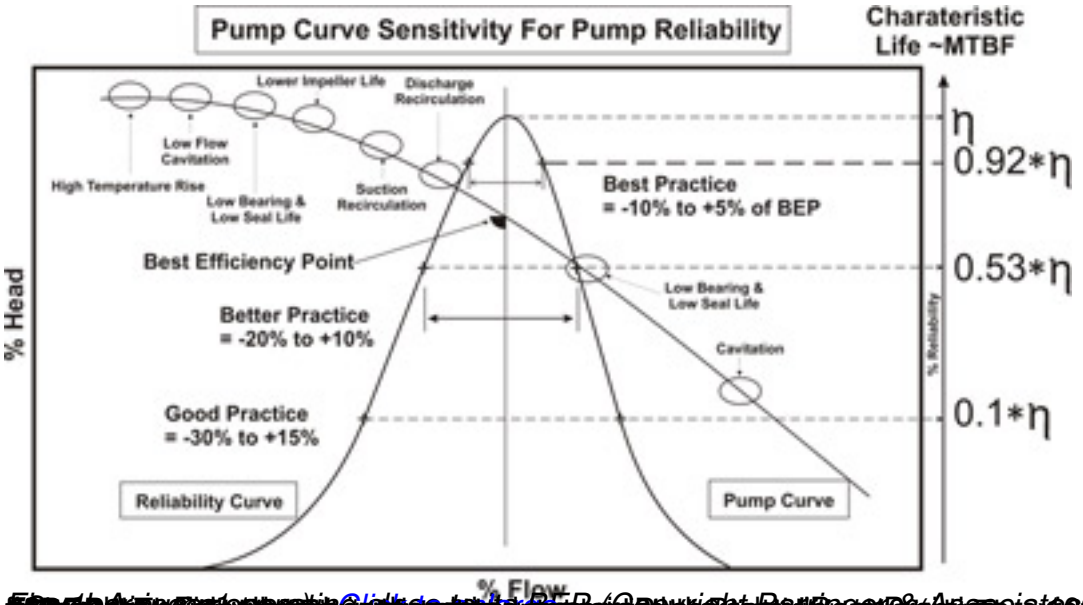
**How do we adapt these systems to operate in an era of limited, expensive electricity and increasing environmental concern without incurring a hefty financial burden?**

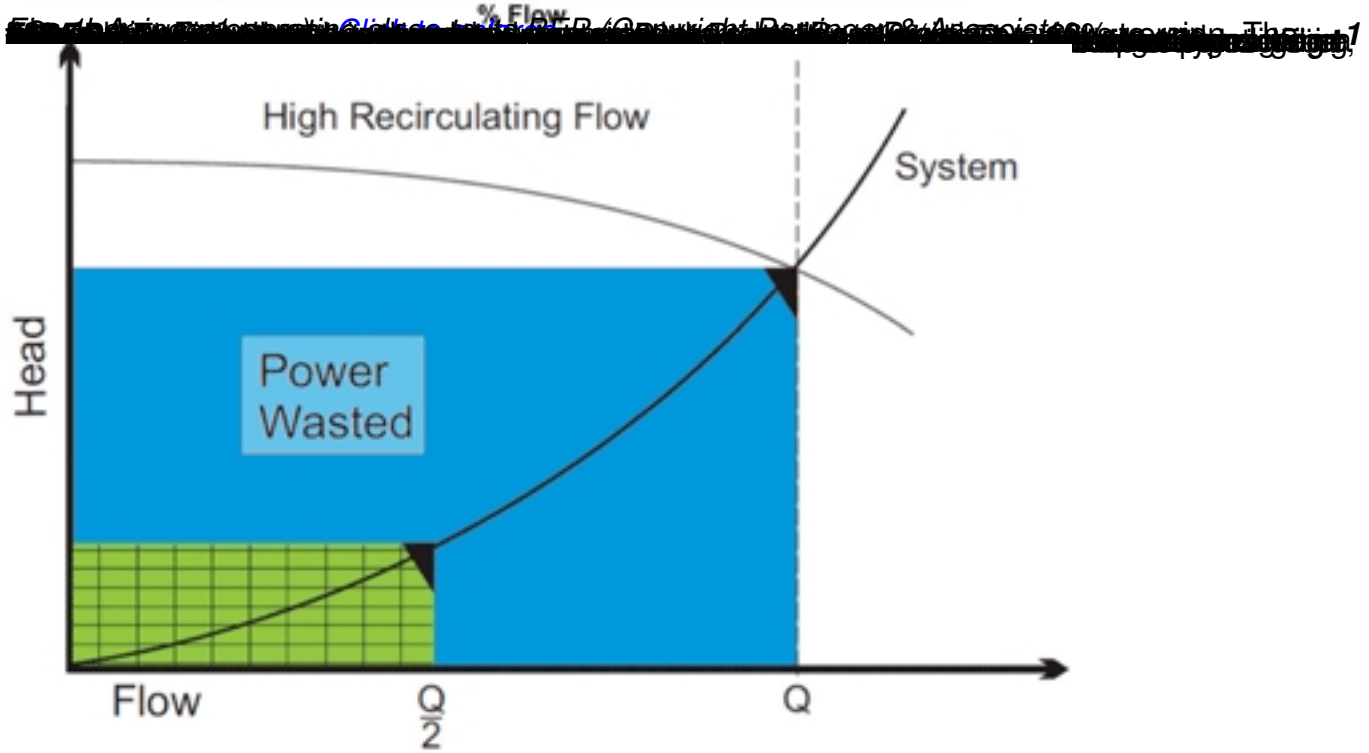
Pumps, the heart of industry, consume about 15% of the world's electricity. When other industrial machinery directly affected by pump efficiency is taken into account, that number rises to approximately 30%. And if those statistics aren't intriguing (or troubling) enough, now consider that 15 – 40% of all this power is wasted.

Centrifugal pumps are designed to operate within a very confined efficiency envelope. A pump operating close to its Best Efficiency Point (BEP) consumes less power, requires less maintenance and fails less frequently than one operating away from its BEP (see Fig. 1). Unfortunately, most pumping systems were designed when electricity was abundant and cheap. Production throughput and stability was king. Once in place, pumps are seldom the focus of the operation, as long as they are running—*and the wasted power is not easily seen.*

**What to do?**

While one-off system assessments can identify "low-hanging fruit," when it comes to the greatest savings potential, they're mere snapshots of an operation: Without ongoing monitoring, such assessments can't accurately quantify wastage over time. Thus, it's difficult to develop a business case for improvements and, once changes are implemented, to quantify results.




## 'Logical and Powerful'

*According to Gunnar Hovstadius, an internationally recognized authority on pumping-system efficiency, TAS PumpMonitor is a logical and powerful extension of current system-assessment efforts. The key?*

*"This product provides pump users and consultants a convenient means for accurately quantifying savings potential AND tracking the success of improvements."*

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