Flow Meter Selection Strategies and Best Practices

"If you cannot measure it, you cannot improve it." — Lord Kelvin, scientist

With data... you are able to drive your processes for improving your processes or services.

"You need flow meters to measure water, chilled/hot water and steam usage.

Flow meters help optimize and control plant utilities and buildings.

Many factors affect the flow meter you pick.

Process
- Flow rate
- Process temperature
- Process pressure
- Fluid density
- Fluid flow stability

Environmental
- Ambient temperature
- Humidity
- Vibration

Site and installation
- Will it be exposed to outdoor environment?
- Will it be exposed to aggressive environment?

Communications
- Data transmission
- Data storage
- Data retrieval

Maintenance
- Maintenance requirement
- Maintenance accessibility

Measurement technology
- Ultrasonic
- Turbine
- Vortex

Advantages of ultrasonic flow meters

Types of ultrasonic flow meters

Advantages of clamp-on flow meters

Examples of clamp-on meters

Big government...small energy consumption

Being cool and smart at the same time

Prescription for cost savings

Baker Hughes, a GE company