



Automation | Valves | Measurement | Process Control

Making Sense of Methane

Brian Van Vliet, P.Eng
Environmental Solutions Leader



Environmental Leadership – Vision / Mission

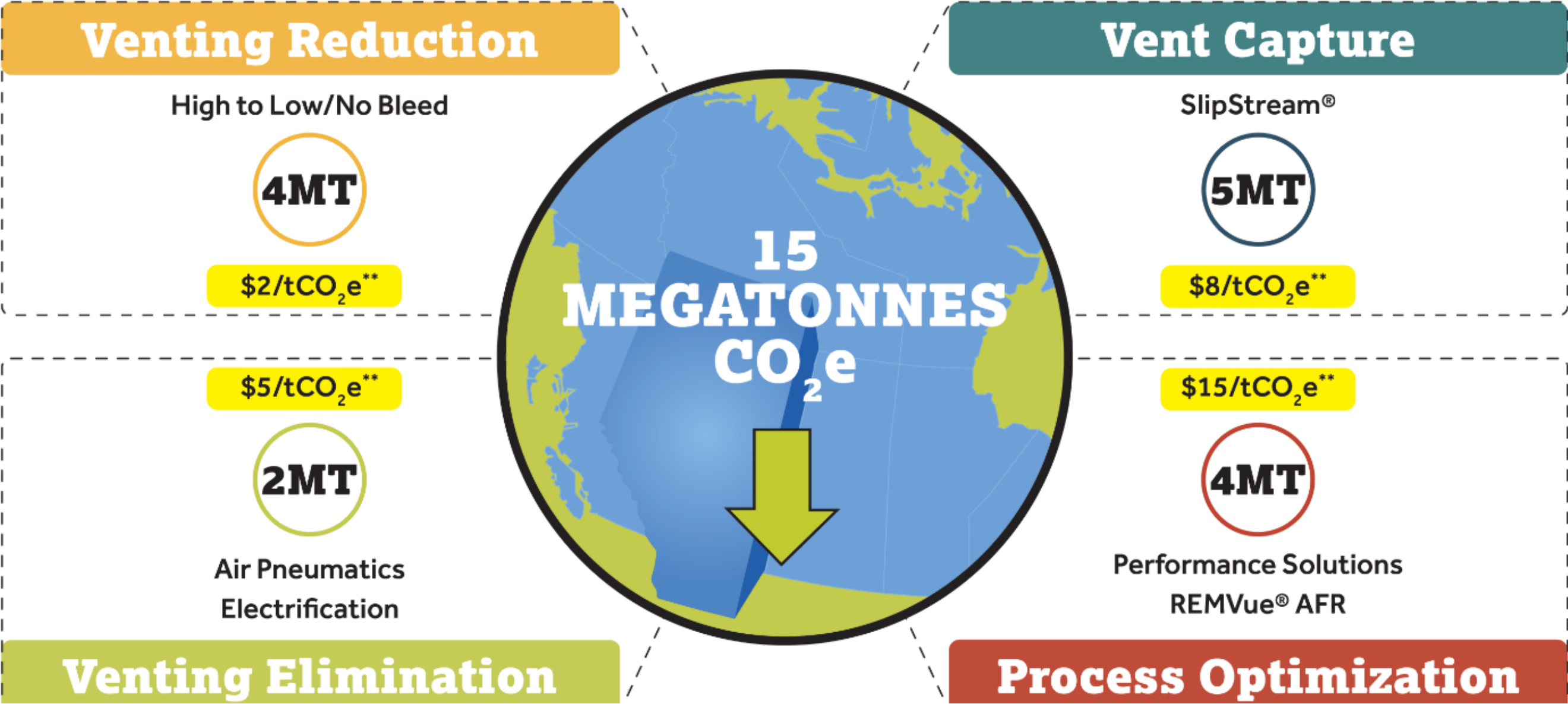


“Spartan Controls is committed to environmental leadership within our community, our business operations and the industries we serve through education and the application of best practices and technology.”

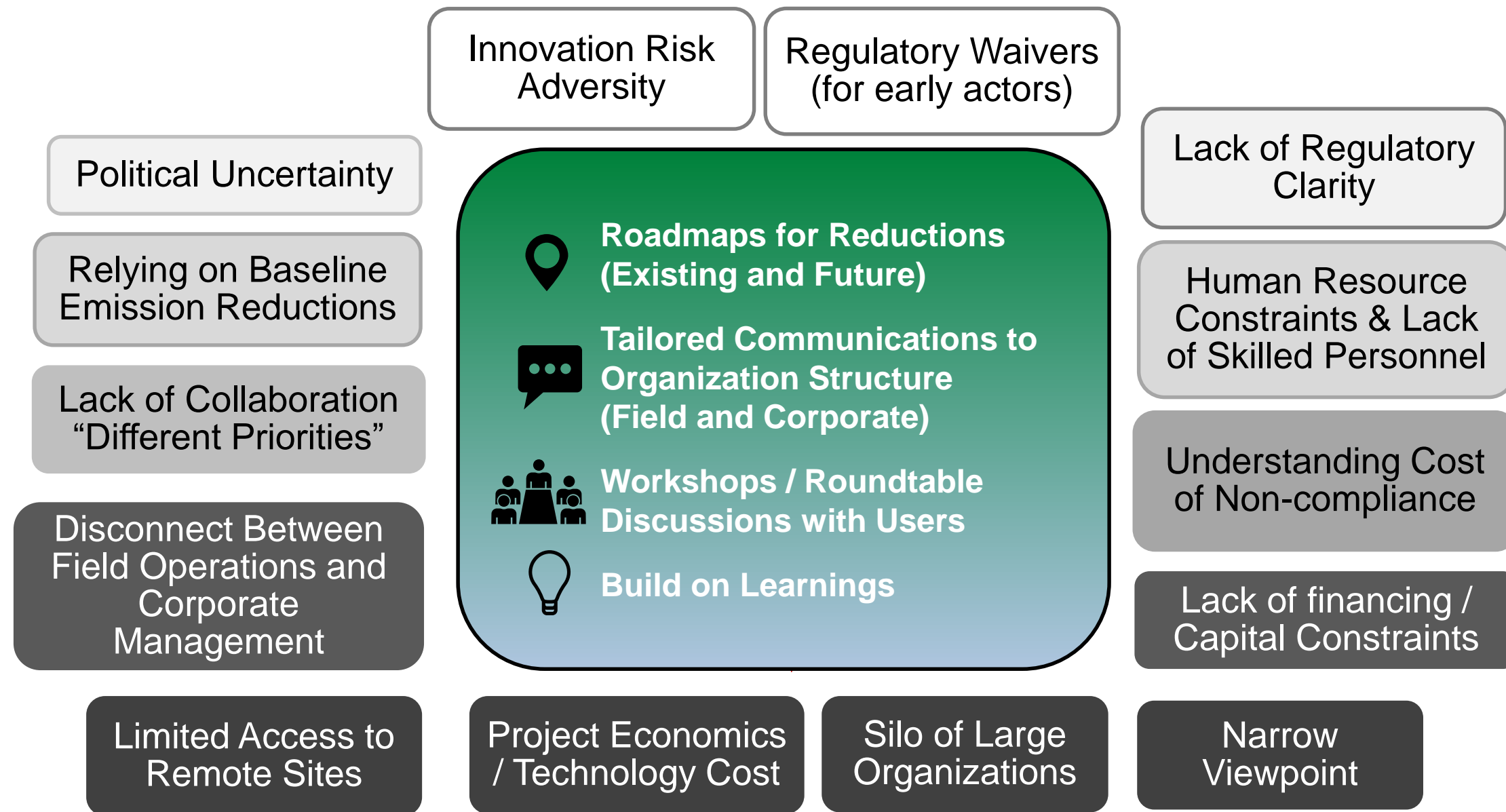
- Effective management of energy, emissions and environmental performance are critical in driving costs down and meeting regulatory compliance requirements
- Together with our principals, Spartan strives to provide solutions that focus on further developing our customers' sustainability, profitability and improved environmental performance across all industries served
- Our focus on efficiency improvement, environmental leadership technology and compliance provides our customers with proven and ***“implementation ready”*** solutions to meet voluntary and regulatory emission reductions



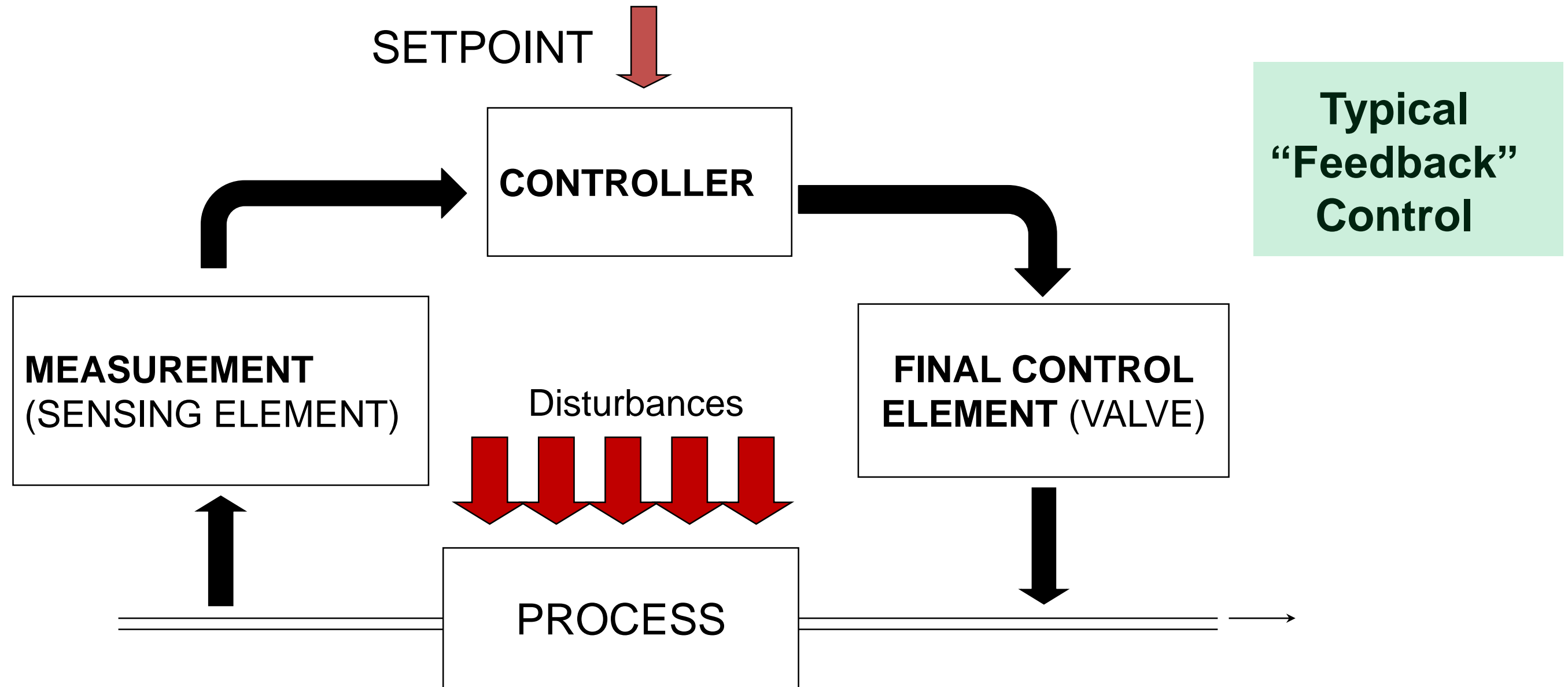
Environmental Leadership - GHG Emissions Reduction Potential



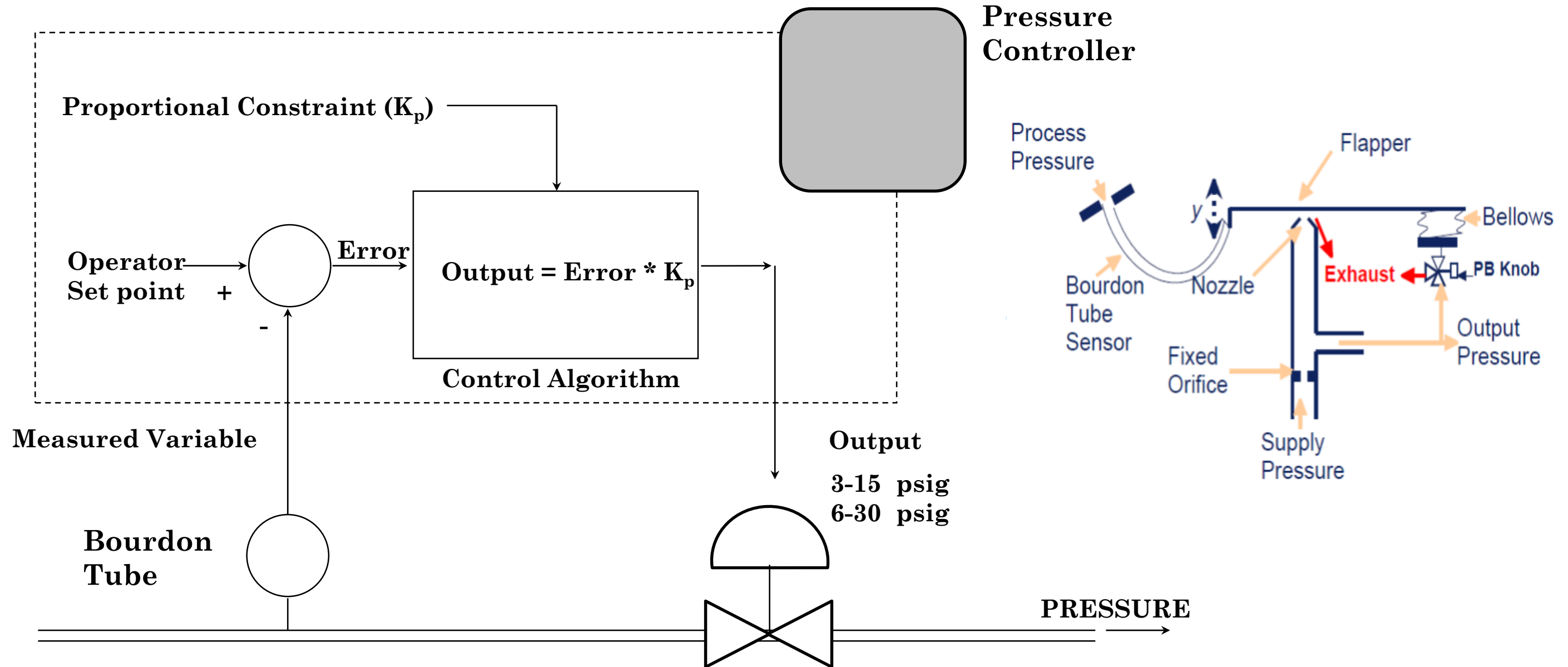
Barriers to Deployment and Potential Solutions to Overcome*



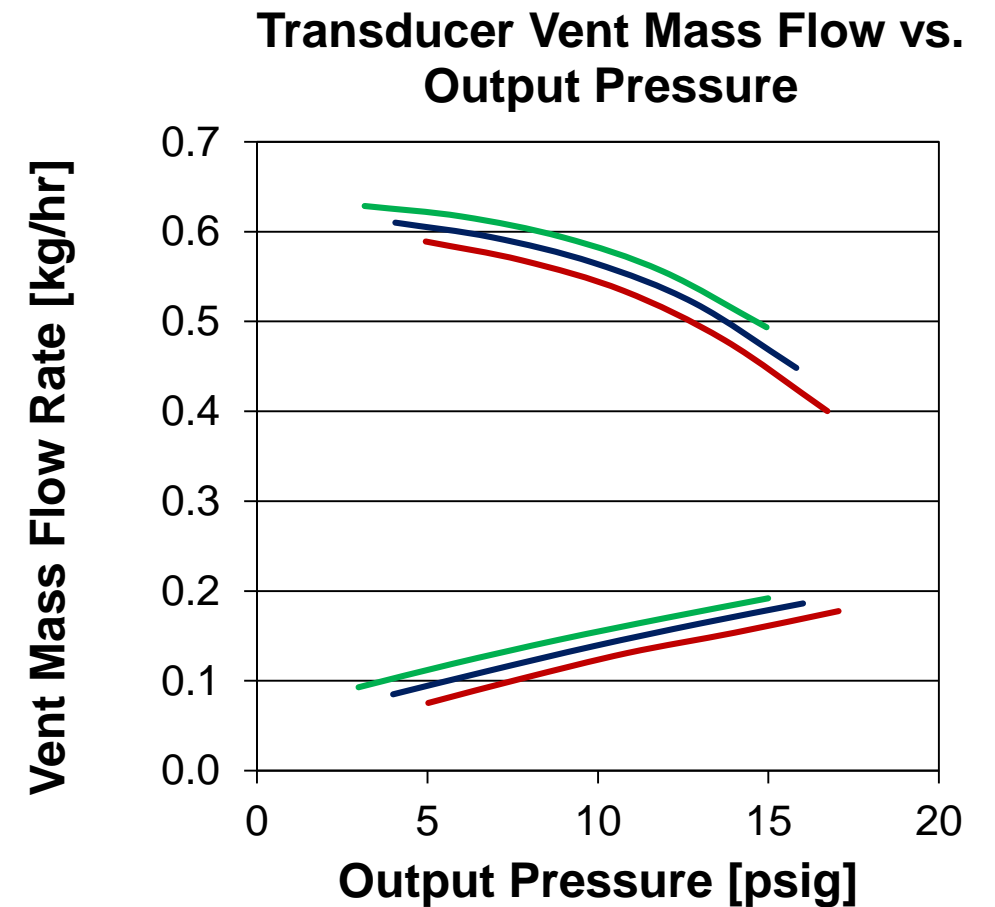
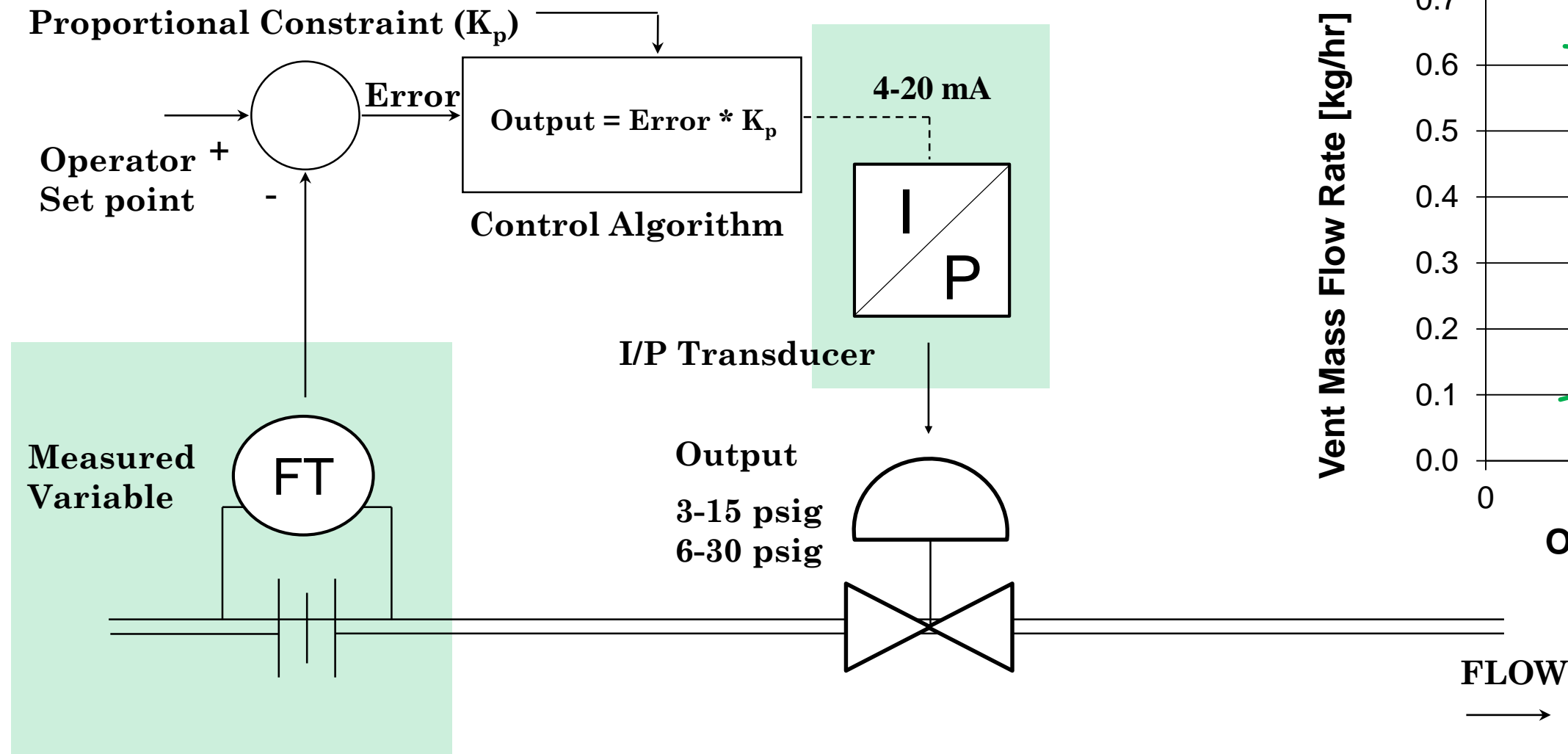
Control Loop Overview



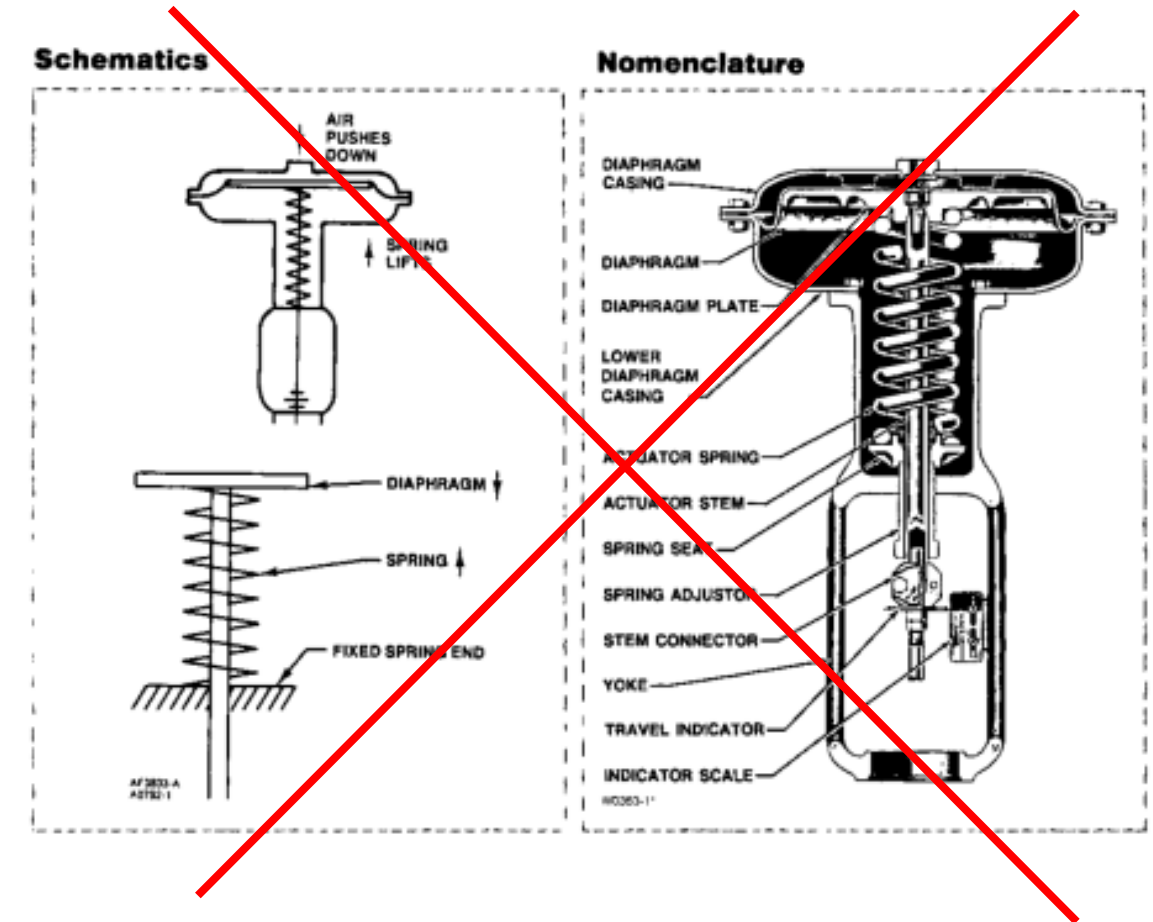
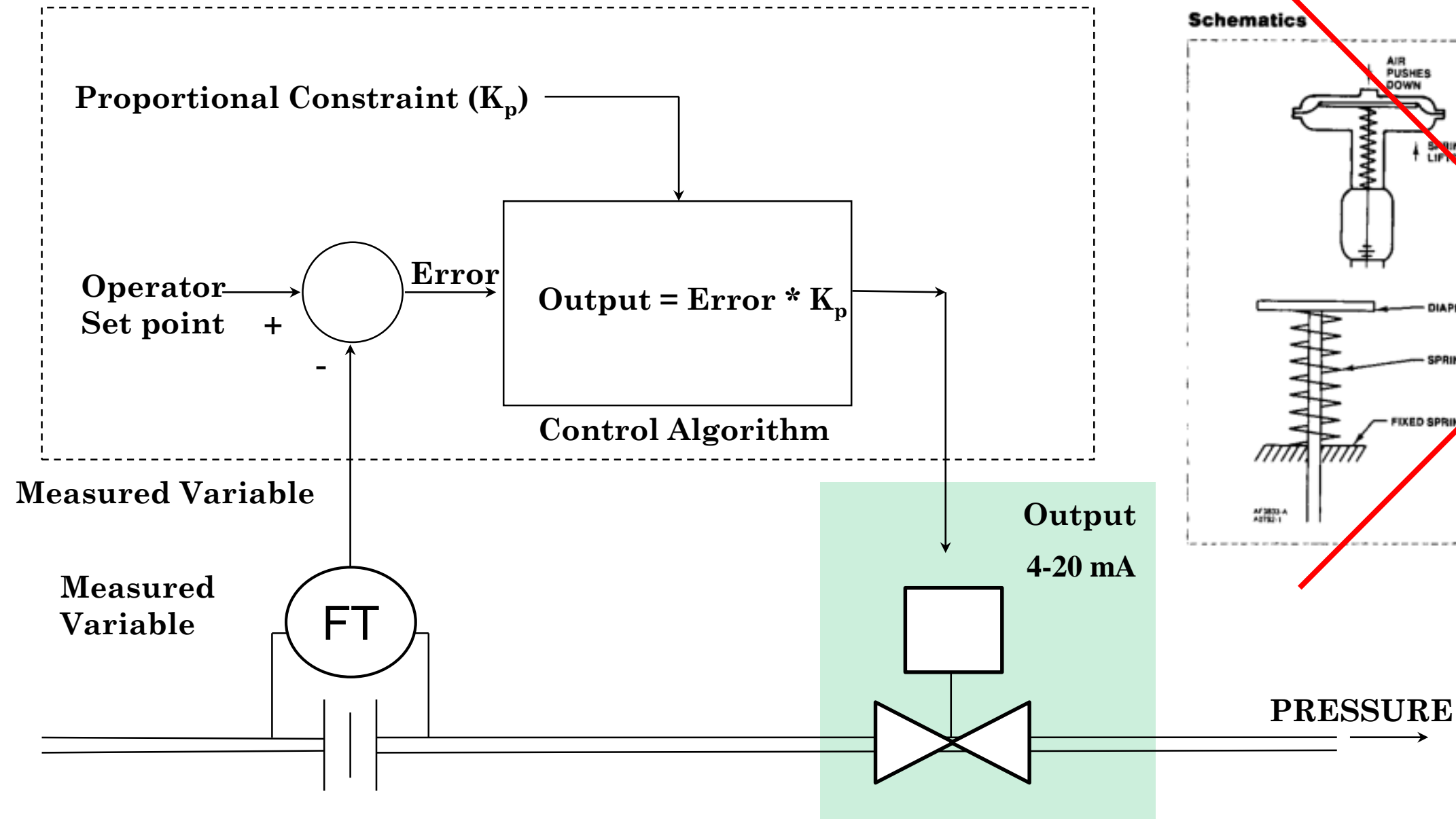
Venting Reduction - Pneumatic Control Loops



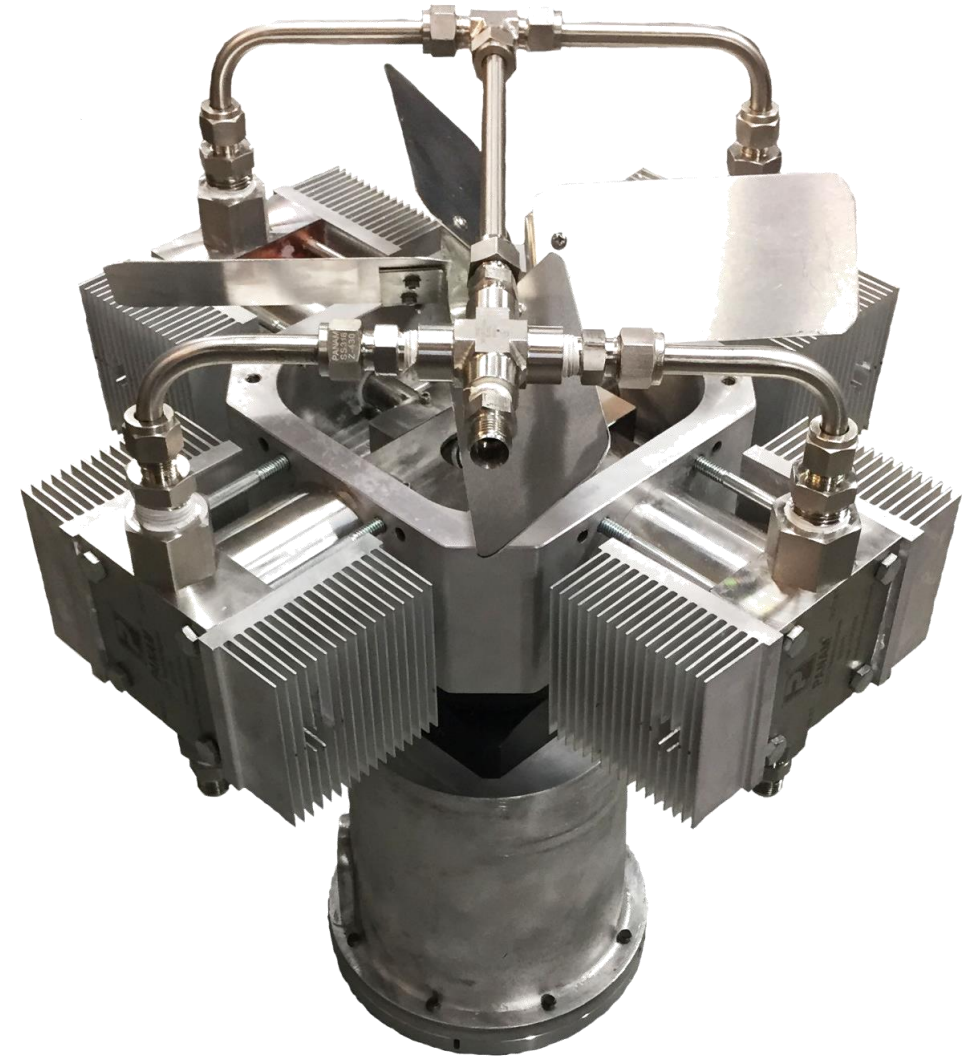
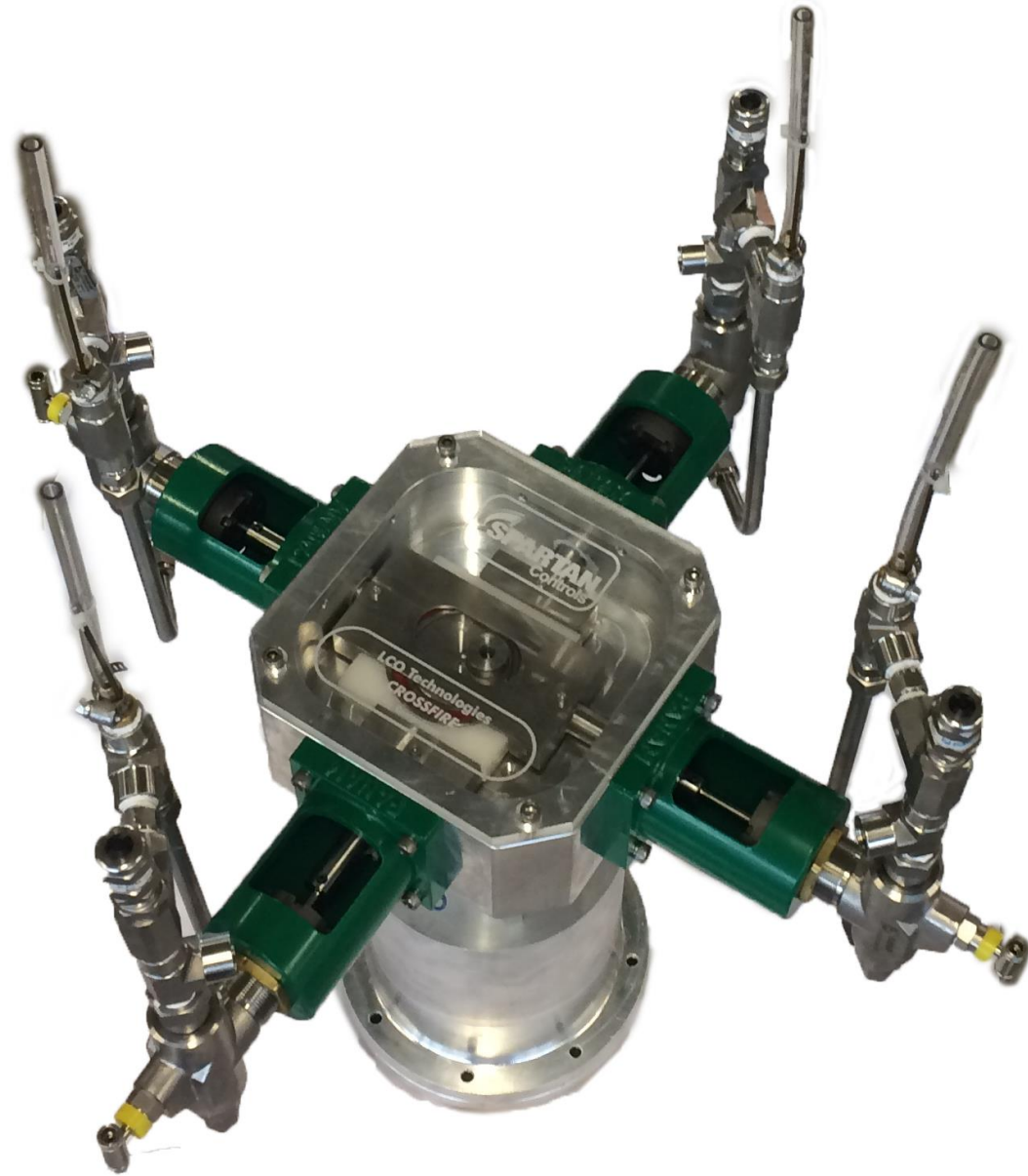
Venting Reduction - Electro-Pneumatic Control Loops



Venting Elimination - Electric Control Loops



Venting Elimination - Chemical Injection / Air Compression



Venting Elimination - Remote Power Options

Grid



Fuel Cell



TEG



Solar



Process Optimization - REMVue® AFR

REMVue®

- Rich-to-Lean burn conversion control system



- **Average fuel savings of 15%**

Vent Capture - SlipStream®

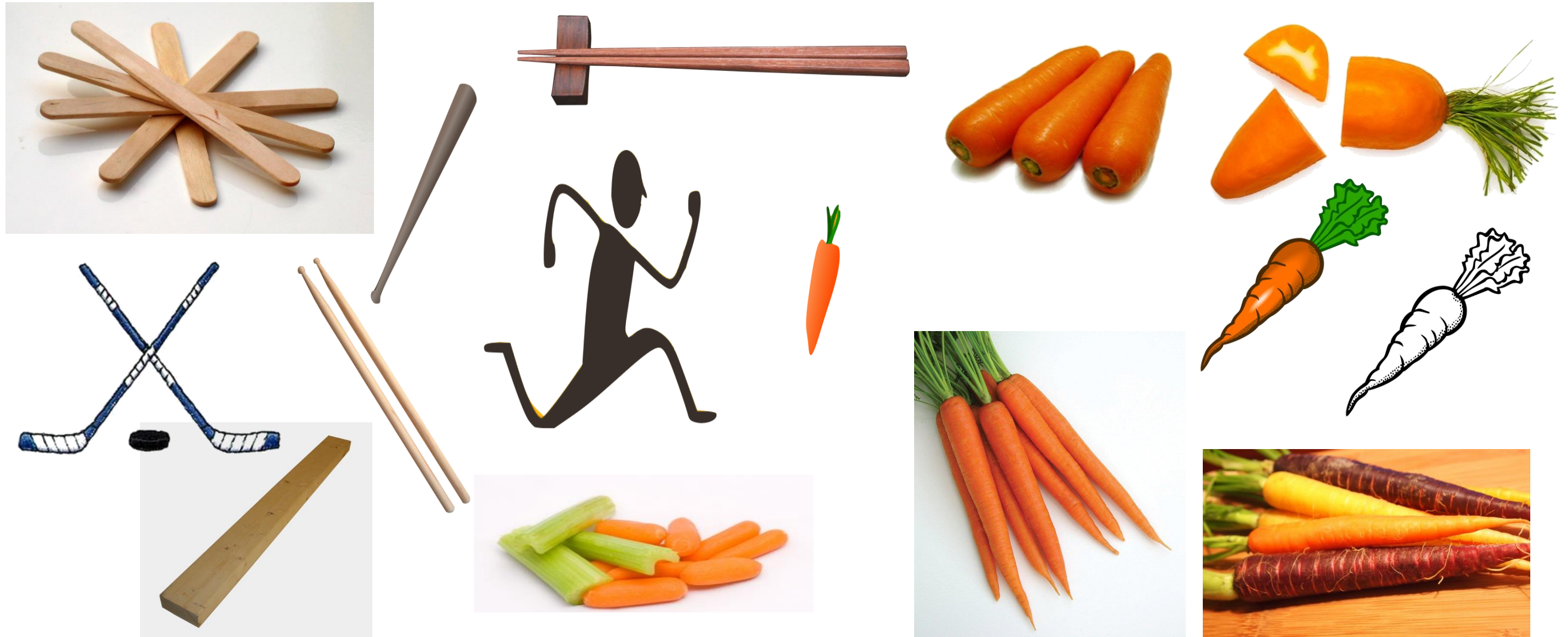


- A system that captures normally vented hydrocarbons and uses them as supplementary fuel



- Another means of achieving venting elimination

Incentives and Regulations - Carrots and Sticks

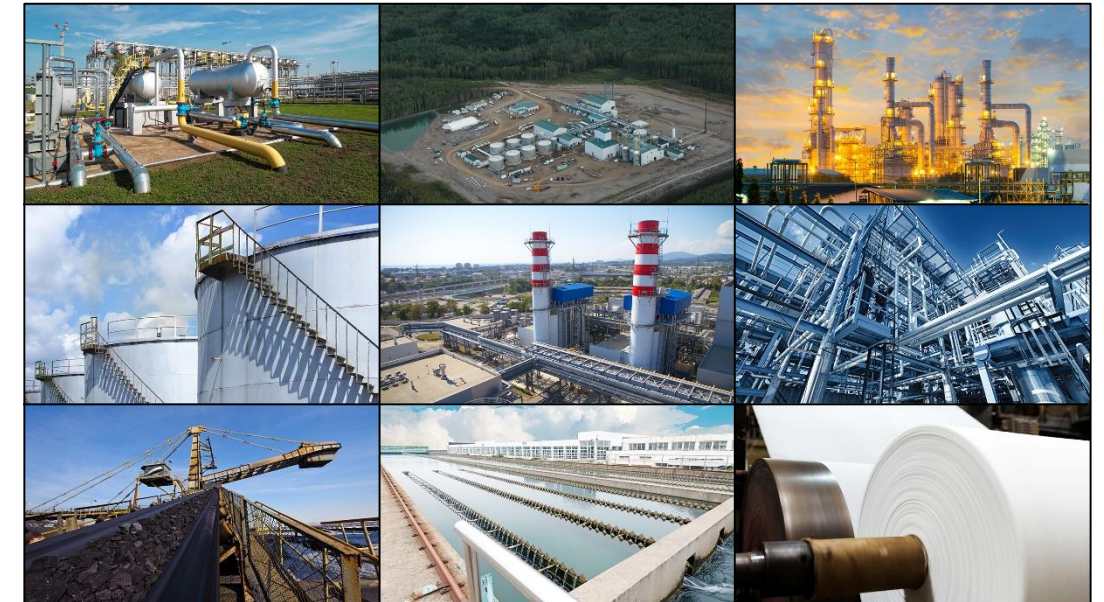


Contact Me

Brian Van Vliet, P.Eng

+1 403-589-1743

vanvliet.brian@spartancontrols.com



join the conversation



THANK YOU

NATURAL GAS WORLD

