

# Fisher™ C1 Controller Saves Gulf Oil Producer \$2,900 USD Per Unit Per Year

## RESULTS

- Conducted study and predicted savings of \$1,600 USD per unit per year in reduced natural gas consumption alone
- Reduced emissions and saved another \$1,300 USD per unit per year, including carbon credits
- 22 Fisher C1 controllers saved the oil company \$65,000 USD during their first year of operation



## APPLICATION

Fisher C1 controllers replace older model 4150/4160 controllers

## CUSTOMER

Oil producer in the Gulf of Mexico

## CHALLENGE

An oil producer in the Gulf of Mexico had been working to respond to new directives from Washington D. C. Greenhouse gas emissions and the excessive waste of natural gas continue to be topics of concern for the federal government and the general public.

The John H. Carter Company, an Emerson local business partner in the Gulf, agreed to conduct a study for the end-user. The goal was to determine how much natural gas could be saved by switching from the older Fisher 4150/4160 controllers to the Fisher C1 controller.

The C1 controller has a patented proportional band adjustment assembly to replace the three-way valve. This innovative feature provides reliable control and increased safety. The C1 controller compares sensed process pressure to an operator-adjusted set point and sends a pneumatic signal to the adjacent control element that maintains the set point value. Available models include proportional only, proportional-plus-reset, differential gap, or transmitter options.

## SOLUTION

John H. Carter Company engineers completed the calculations and estimated the savings at roughly \$1,600 per unit per year in natural gas consumption alone.

*“With the data and proven savings from this application, this oil producer is convinced that the upgraded technology, particularly the C1 controller, is well worth the investment.”*

**Ron Best**  
Account Manager  
John H. Carter Company

Even more impressive, however, were the potential emission reductions. The John H. Carter Company team determined that applying the C1 would reduce emissions by 231.7 MCF/year and prevent up to 90 Carbon Dioxide Equivalent metric tons from leaking to the atmosphere.

The oil producer could reduce CO<sub>2</sub> equivalent emissions, trade the carbon credits (\$15/metric ton), and save an additional \$1,353 per unit per year.

(NOTE: The calculations described result from multiplying the air usage by 1.29 to convert to natural gas usage in SCFH. Refer to the [Specifications footnote in the C1 bulletin.](#))

Convinced by the numbers, the oil producer ordered and installed 22 C1 controllers. Each of them saved the end-user about \$2,974.90 per year. Collectively, they saved an estimated \$65,000 dollars during their first year of operation.

### RESOURCES

#### Energy Responsible Tool

<http://www.fisher.com/energyresponsibletool/>

#### C1 Controller Product Webpage

<http://www.emerson.com/en-us/catalog/automation-solutions/valves-actuators-regulators/controllers-instruments/fisher-c1>



*Each Fisher C1 pneumatic controller uses 1/10th of the natural gas of older, high-bleed models. A green label and green Bourdon tube symbolize the C1 controller's energy- and cost-saving benefits.*

 <http://www.Facebook.com/FisherValves>

 <http://www.YouTube.com/user/FisherControlValve>

 <http://www.Twitter.com/FisherValves>

 <http://www.Linkedin.com/groups/Fisher-3941826>

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