

# Retro-Commissioning Program Case Study



## What is Retro-Commissioning?

The DTE Energy Retro-Commissioning (RCx) Program provides a professional study of your existing building and process systems. Program specialists help you optimize and improve comfort and functionality while decreasing energy and maintenance costs over time. The program is focused on tuning-up your existing equipment for more efficient performance, rather than upgrading or replacing it.

The retro-commissioning study is complimentary with opportunities for additional rebates and bonuses. Contact us to see if you qualify.

## Project details: Constellium

Constellium is a global leader in the development, manufacturing, and recycling of aluminium products and solutions. The company designs and manufactures advanced alloys and engineered solutions for beverage cans, cars, airplanes, and more. Constellium's Van Buren plant participated in the Retro-Commissioning Program to help them reach their energy savings goals, and they plan to participate again in the future.

The following energy efficiency improvements were identified, implemented, and verified through the RCx Program at Constellium:

- Repaired compressed air leaks
- Replaced standard open nozzles on air wands with engineered nozzles
- Shut off idle equipment (supply fans, exhaust fans, cooling pumps, and washers) on weekends and holidays

## Project snapshot

**Participant:** Constellium

**Track:** Custom

**Building size:** 315,788 sq. ft.

**Verified annual electric savings:** 2,125,479 kWh

**Verified annual natural gas savings:** 76,027 Ccf

**Simple payback:** 0.05 years

## Project savings

Description	Cost (-)	Benefit (+)
Annual energy cost savings estimate		\$166,042
Implementation cost estimate	\$7,500	
Customer verification bonus		\$96,441

**Total benefit: \$262,483**

## Get started today!

For more information on the DTE Retro-Commissioning Program, visit [dteenergy.com/rcx](https://dteenergy.com/rcx), send an email to [DTERCx@esciences.us](mailto:DTERCx@esciences.us) or call 248.430.5579.

The DTE Retro-Commissioning Program is an important part of our energy efficiency initiatives through DTE CleanVision, our goal of net zero carbon emissions by 2050. Learn more about CleanVision at [dtecleanenergy.com](https://dtecleanenergy.com) and the RCx Program at [dteenergy.com/rcx](https://dteenergy.com/rcx).

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### Constellium

Jenny Barnes started her work with Constellium Automotive as an intern and joined their team full time after graduating as the engineer for the Central Services team. As part of this role, she is responsible for tracking their energy consumption, and it became quickly apparent that they were not meeting their global corporate energy reduction goals. After working closely with the Energy Sciences team on the DTE Find & Fix® Compressed Air Program, they were introduced to the DTE Retro-Commissioning (RCx) Program.

“Since we had such an enormous success with the first program, it was a no-brainer for us to give the second program a shot. Participating in the program was very simple as an energy engineer walked through our plant, made note of energy inefficiencies, and offered up simple solutions.

What I valued most throughout this whole process was the one-on-one feeling and the personalized approach. Having bi-weekly meetings to give updates on project progress made our project feel valued and it also forced us to be accountable to make progress on them, which was extremely valuable to us. Constellium Van Buren was given a goal to reduce our Scope 1 and 2 CO2 emissions intensity by 30% from 2021-2030 and with the help of the RCx program and their team, we are now on track and even a little ahead of schedule on achieving this goal. I would absolutely recommend this program to any company looking to reduce their energy consumption and carbon footprint. Not only does this program have enormous cost savings by offering more energy efficient solutions, but also gets us one step closer to a cleaner planet.”



**Jenny Barnes, Constellium Van Buren**