

## MONROE COUNTY COMMUNITY COLLEGE

Monroe County | Monroe, MI

### PROJECT SIZE:

**Number of Buildings:** 5 main campus buildings

**Enrollment:** 3,144 in 2016

**Project Cost:** \$16.1 Million

**Source of Funding:** Project funded through a combination of local and national lenders

**Contract Term:** 20 years

**Project Implemented:** 2015



### PROJECT DESCRIPTION, PERFORMANCE & SERVICES PROVIDED:

Monroe County Community College (MCCC) needed a complete HVAC system overhaul and they decided to invest in a very efficient geothermal system which will last for at least 50 years – twice the life of a conventional system – so their overall savings will be much greater than what is achieved within the financing period of 20 years. The geothermal electric rate is half of the regular electric rate so savings are substantial.

- There are 288 wells that supply the system's distribution loop.
- The approximate depth of each well is between 350 and 400 feet.
- 10,000 Gallons of water were pumped in from the college's connection to the city water system to supply the system (a "closed-loop" that does not use groundwater).

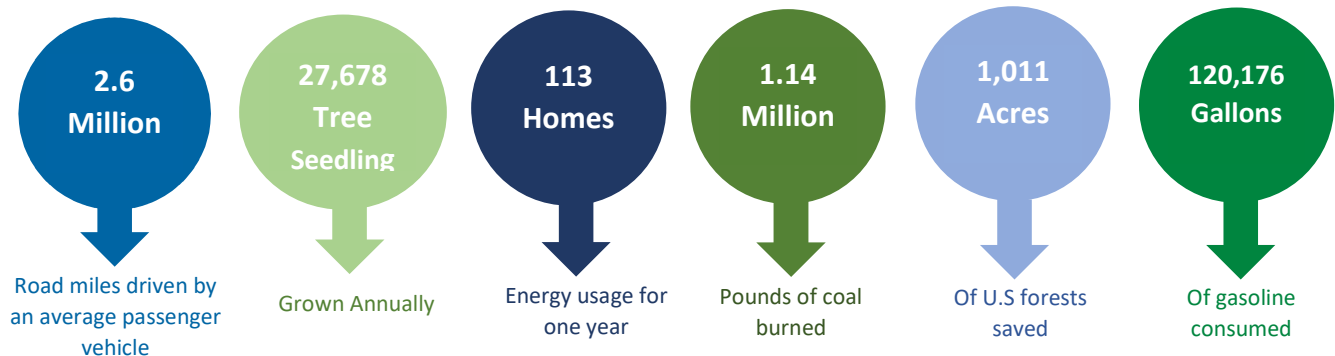
- Guaranteed reduction of 160,000 kilowatt hours of energy used annually by MCCC.
- Energy Savings: \$5.5 Million over 20 years
- Reduces need for energy from traditional power plants fueled by fossil fuels.
- Provides educational opportunities for MCCC students and teachers.
- The system's well field will last for at least 50 years. This is double the lifespan of a conventional system.



## MONROE COUNTY COMMUNITY COLLEGE

**1,088 tons**  
of carbon emissions reduced  
annually by MCCC

Based on the Environmental  
Protection Agency's Greenhouse  
Gas Equivalencies Calculator, the  
annual green benefit from this  
reduction each year is equal to:



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