

# Filtration Concepts

## Case Study

Large R1 Research University,  
Central United States

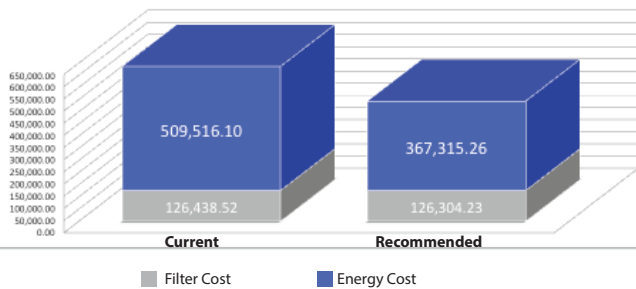
### 28% Energy reduction and a 55% reduction of filters changed out annually.

There were also reductions in CO2 emissions, landfill impact, filter cost and warehouse space.

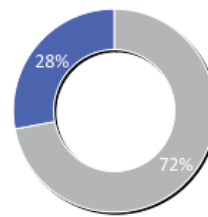
**Objective** This major R1 research university was transitioning into an extensive green initiative throughout the entire campus. The Facilities Department was looking to do their part by finding more efficient and sustainable filter solutions that could help achieve the universities goals. When they contacted Filtration Concepts, they were very specific on what they wanted. They wanted to reduce energy, waste, CO2 emissions and labor where they could. We started with an on-site survey and were able to achieve more than what they asked for. We were able to reduce:

- Annual Energy Cost by **28%**
- Annual Filter Cost by **.10%**
- Annual Waste by **55%**
- Annual Landfill Impact by **52%**
- Annual CO2 Footprint by **27%**

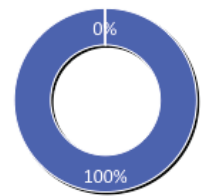
Annual Energy & Filter Cost



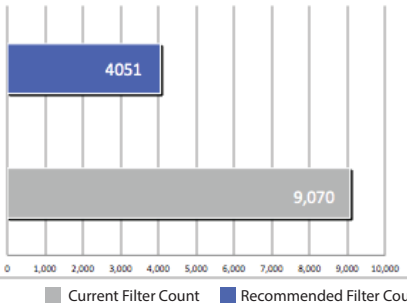
Annual Energy Savings



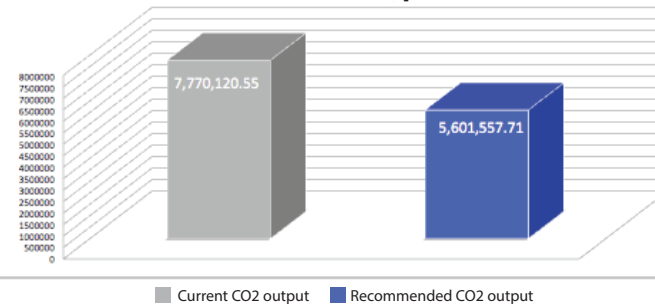
Filter Cost (+/-) vs Energy Savings



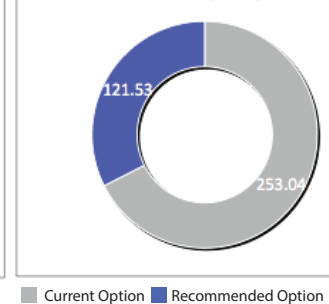
Annual Filter Count



Annual CO<sup>2</sup> footprint-lbs



Landfill Impact - yd<sup>3</sup>



**Results** After the completion of the survey, we provided them filtration solutions that were more efficient and sustainable. The Trades Maintenance Manager approved our recommendations for the entire facility. Filtration solutions suggestions included converting various filters and replacing final filters with more sustainable and efficient ones. With our Fil-Trac Program, energy was **reduced**, warehouse inventory was **eliminated**, filter change outs were **decreased**, installation was **easier**, landfill impact was **reduced** and workloads required **less effort**.

\*Numbers reflect only those filters that we were able to affect.