

What does your system's energy cost?

System Size	1 Shift (2,080 Hours)	2 Shifts (4,160 Hours)	3 Shifts (8,760 Hours)
25 hp	\$2,948	\$5,897	\$12,417
50 hp	\$5,897	\$11,794	\$24,835
75 hp	\$8,845	\$17,690	\$37,252
100 hp	\$11,794	\$23,587	\$49,669
125 hp	\$14,742	\$29,484	\$62,087

Assumes a rate of \$.10/kWh.

Taking simple steps can reduce your compressed air system's operating expenses by at least 10%, directly improving your bottom line.

Leak survey and repairs

- Leaks typically are responsible for 20%-30% of the air compressor's output.
- Leaks can negatively impact system pressure, capacity, and equipment life.
- Try to reduce leaks to less than 10% of your system output.
- Even a small leak can add up over time. Check out the chart below to better understand the cost of leaks.

Leak Rate	1 Shift (2,080 Hours)	2 Shifts (4,160 Hours)	3 Shifts (8,760 Hours)
2 cfm	\$83	\$166	\$350
6 cfm	\$250	\$499	\$1,051
10 cfm	\$416	\$832	\$1,752



Email CIFirstEnergyPA@franklinenergy.com
 Call **844-323-6399**
 Visit www.energysavePA-bizsolutions.com

¹ https://www.energy.gov/sites/prod/files/2014/05/f16/compressed_air1.pdf

² https://www.energy.gov/sites/prod/files/2014/05/f16/compressed_air3.pdf

³ https://www.bpa.gov/EE/Sectors/Industrial/Documents/CA_2006-3_TipSheetCAEfficiencyMeasures.doc

⁴ <https://www.airbestpractices.com/>; <https://compressedairchallenge.org/>

FirstEnergy's Pennsylvania electric companies' program for energy efficiency and renewable energy, helps eligible residents and businesses save energy and money while protecting the environment. FirstEnergy's Pennsylvania electric companies' information, resources and financial incentives help to implement energy efficiency and renewable energy projects that otherwise would not be completed.

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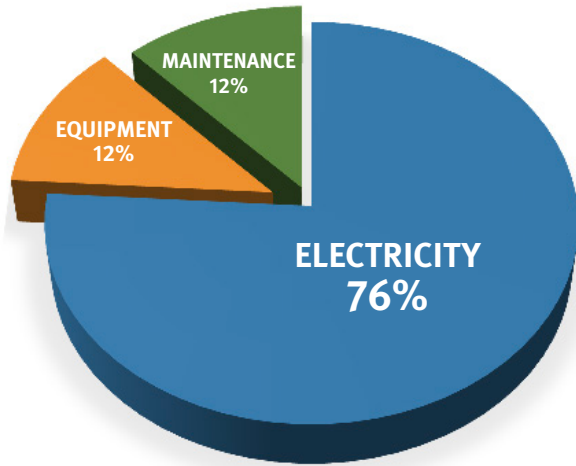


Is your compressed air system operating at its best?

Of the energy required to operate your compressed air system, only 10%–15%¹ is actually delivered as compressed air. Keep your budget in check by ensuring your system is running as efficiently as possible.

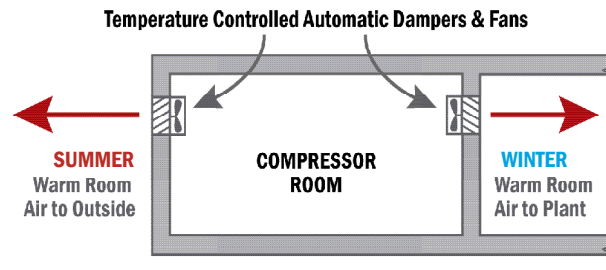
Lifetime compressed air costs

According to the Department of Energy, 76% of a compressed air system's cost over a 10-year period is for electricity.²



Heat recovery³

- As much as 80% of the electricity consumed by your air compressor is wasted as heat.
- Properly designed heat recovery can recover 50%–90% of the waste and use it to heat air or water.



- Heat recovery provides benefits no matter the season. Removing unwanted heat in summer will increase employee comfort. Redirecting recovered heat inside during winter will reduce the demand for mechanical heating.
- To help maximize savings, use dampers and controls to automatically switch from summer to winter operation.

Variable-speed compressor⁴

- Variable-speed air compressors operate more efficiently at slower speeds compared to cycling on and off at full load or using inlet modulation controls.
- Systems may operate most efficiently using a combination of constant-speed and variable-speed compressors.
- Consider a constant-speed compressor to serve a consistent base load and use a variable-speed compressor for the trim load.
- If the system load varies, savings of 10%–35% are typical.

Other opportunities

- Cycling Refrigerated Thermal Mass Dryers
- No-Loss Condensate Drains
- Air-entraining Nozzles
- Storage Tanks
- Comprehensive Bundling of Measures