

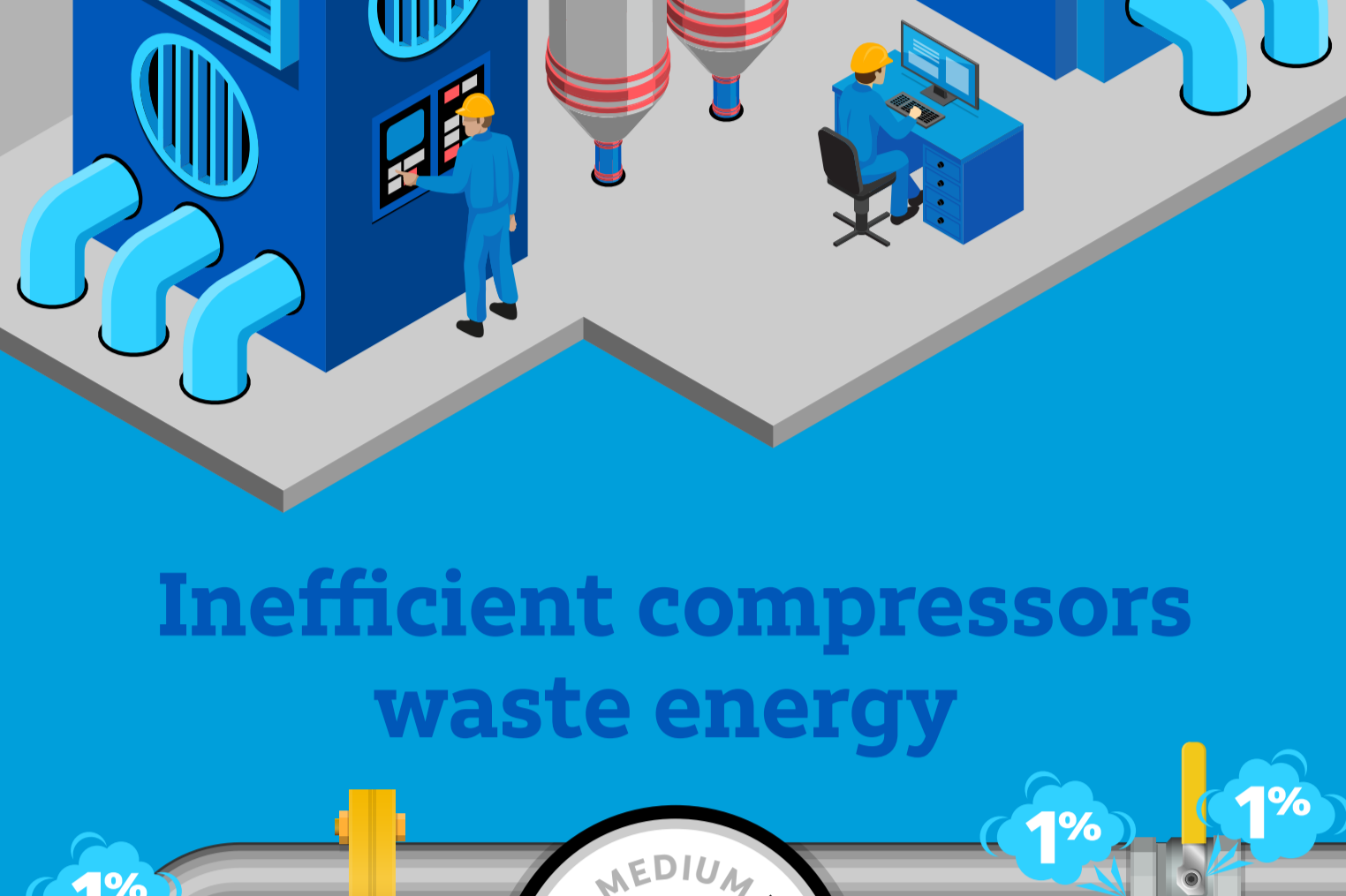
Leverage AT&T 5G in your manufacturing plant to increase efficiency and achieve your sustainability goals

Hidden production inefficiencies can hurt your bottom line and waste energy.

5G/MEC can help you identify and address these inefficiencies, which can also reduce greenhouse gas (GHG) emissions.

Even small problems can waste money and energy at your plant.

COMPRESSORS

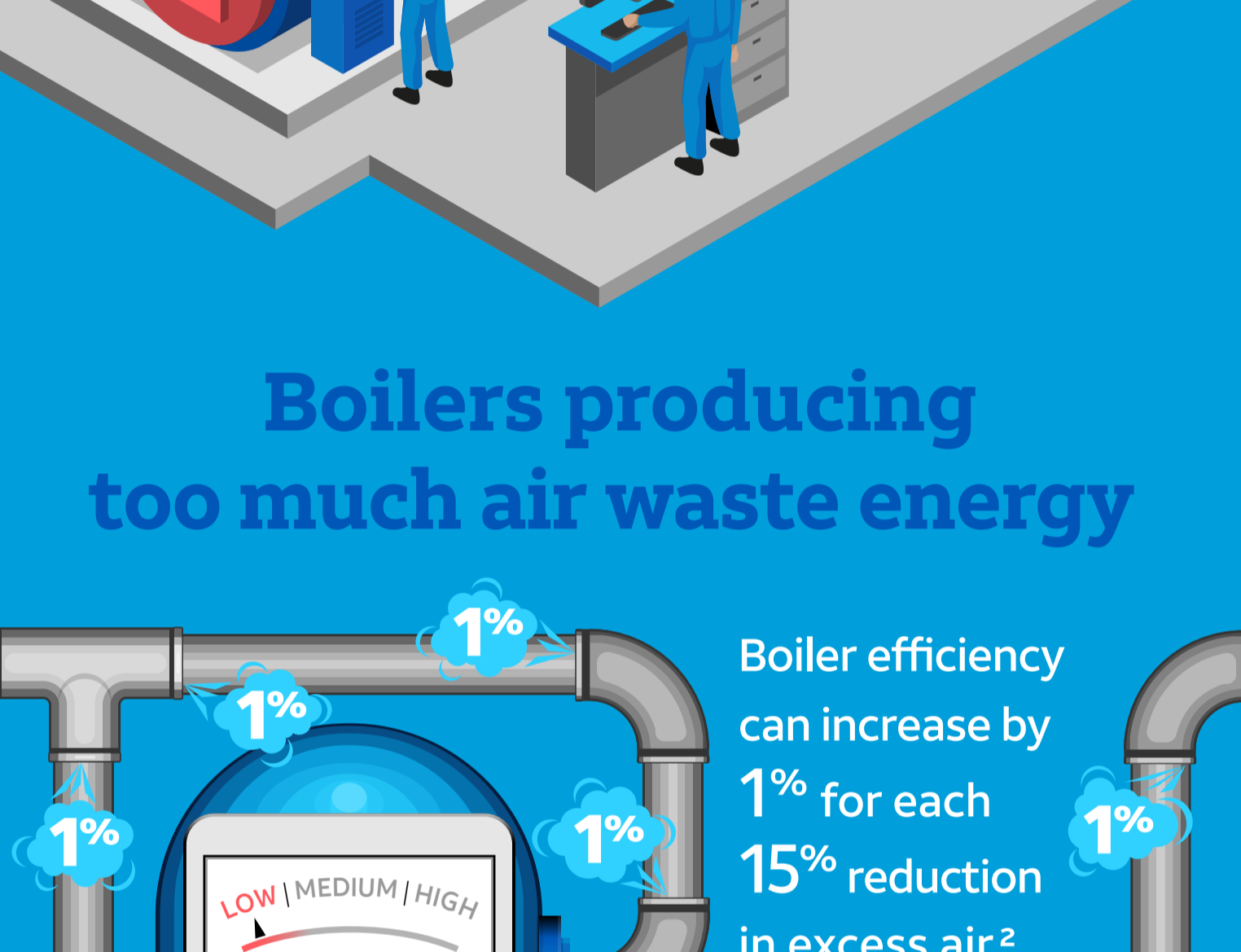


Inefficient compressors waste energy



Every 2 psi pressure rise resulting from resistance to flow can increase compressor energy use by 1%¹.

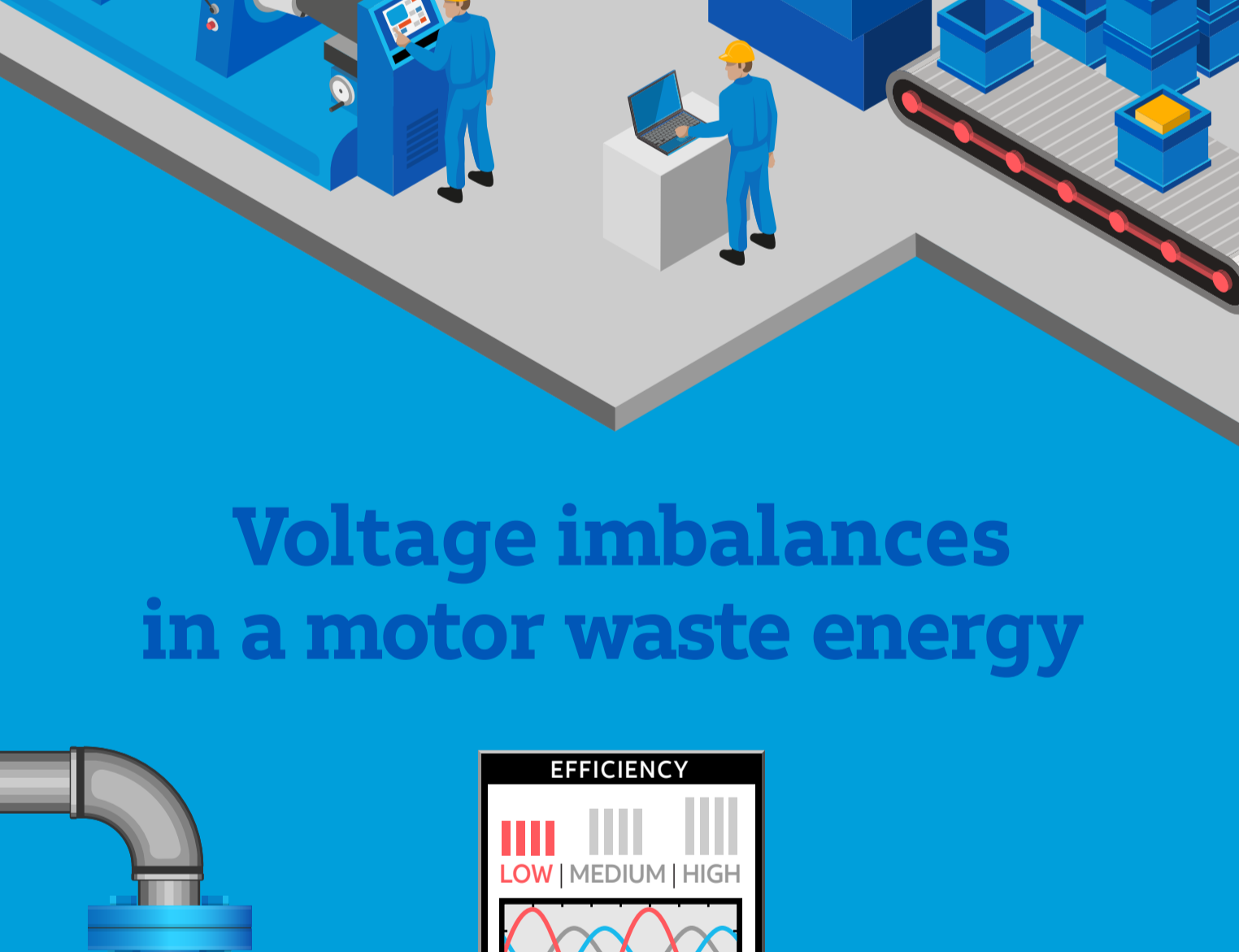
BOILERS



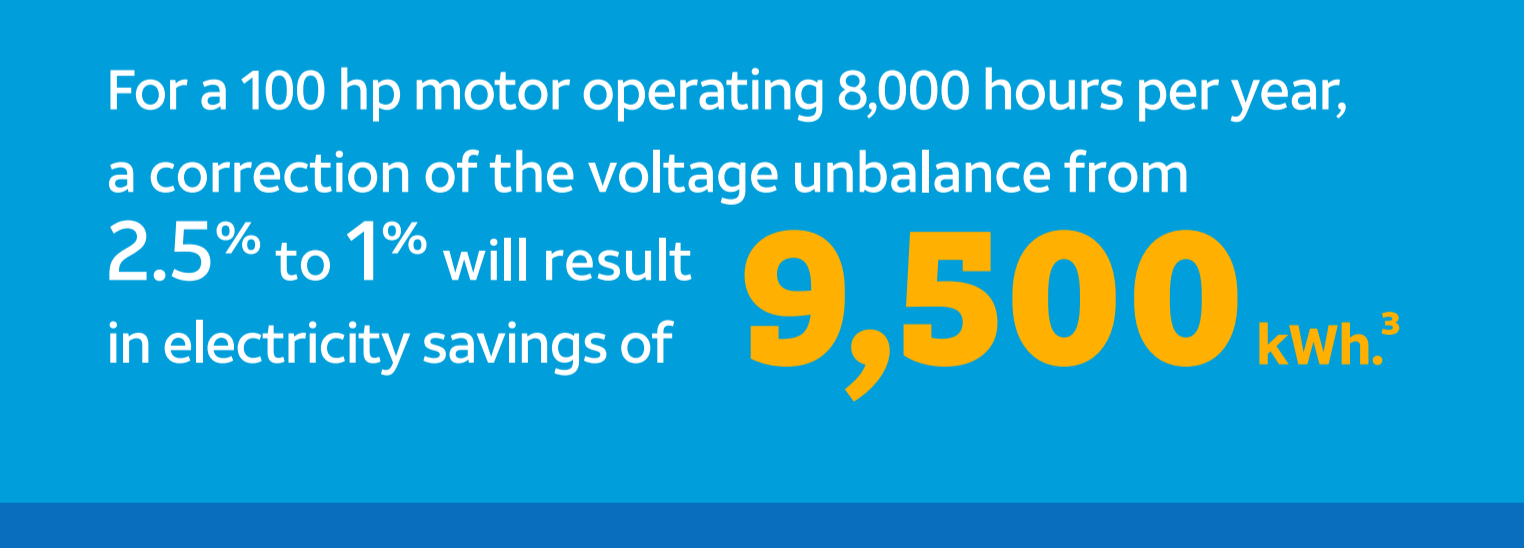
Boilers producing too much air waste energy



MOTORS



Voltage imbalances in a motor waste energy



For a 100 hp motor operating 8,000 hours per year, a correction of the voltage unbalance from 2.5% to 1% will result in electricity savings of **9,500 kWh.³**

5G/MEC can help you reduce wasted energy and greenhouse gas emissions because it enables:

- Optimal equipment performance, even in spaces with many devices and connections
- Predictive analytics to detect and address quality issues that could cause unnecessary waste
- Video analytics to monitor analog equipment and identify an energy-wasting issue
- Augmented reality to safely and quickly identify inefficiency-causing leaks
- Artificial intelligence and machine learning to create automated responses to ensure equipment is running optimally
- Near real-time device management to turn devices on and off, as needed, avoiding wasted energy

AT&T has set a goal to be carbon neutral by 2035



and develops connectivity solutions like 5G/MEC to help customers meet their own sustainability goals and reduce their greenhouse gas emissions.

Learn more @ att.com/5gportfolio

¹ "Energy Efficiency and Cost Saving Opportunities for Ammonia and Nitrogenous Fertilizer Production," United States Environmental Protection Agency, Office of Air and Radiation, March, 2017, energystar.gov/sites/default/files/tools/Fertilizer_guide_170418_508.pdf

² Ibid.

³ "Energy Efficiency Improvement and Cost Saving Opportunities for the Pharmaceutical Industry," Ernest Orlando Lawrence Berkeley National Laboratory, March 2008, energystar.gov/sites/default/files/buildings/tools/Pharmaceutical_Energy_Guide.pdf