

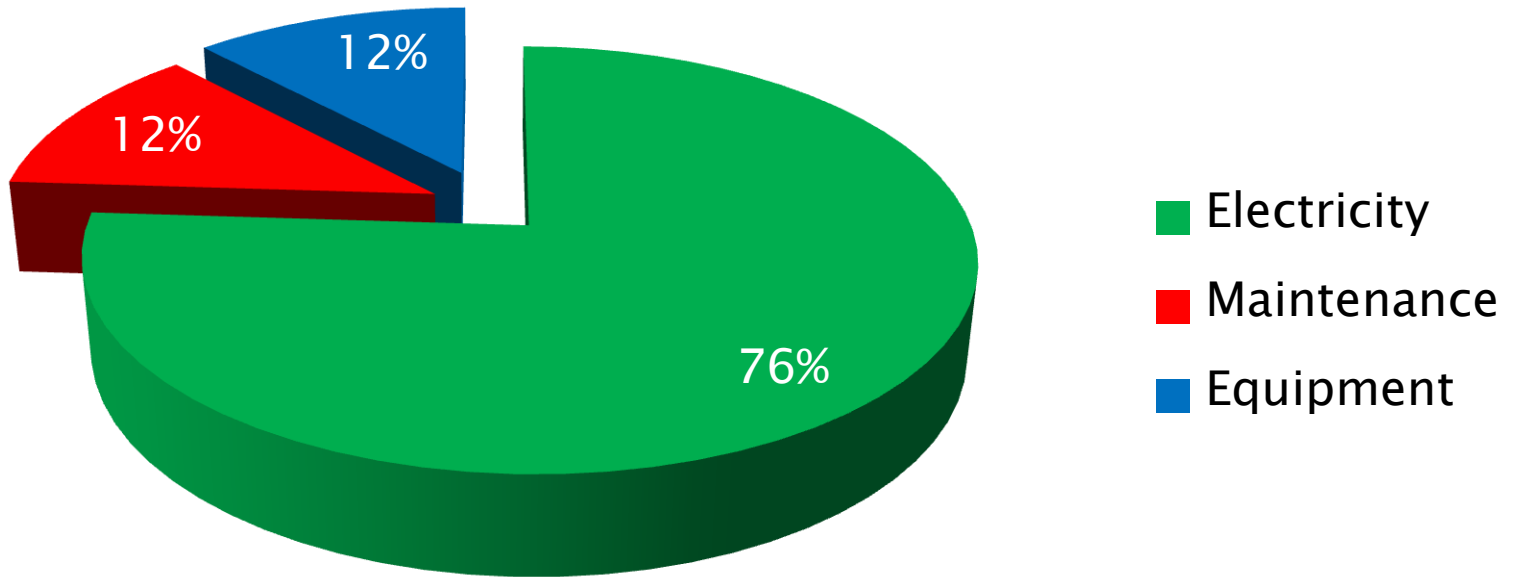
# Energy Saving in Compressed Air System



# ELECTRIC ENERGY, THE BIG COST

## Compressed Air Cost in Perspective

Costs over 10 Years

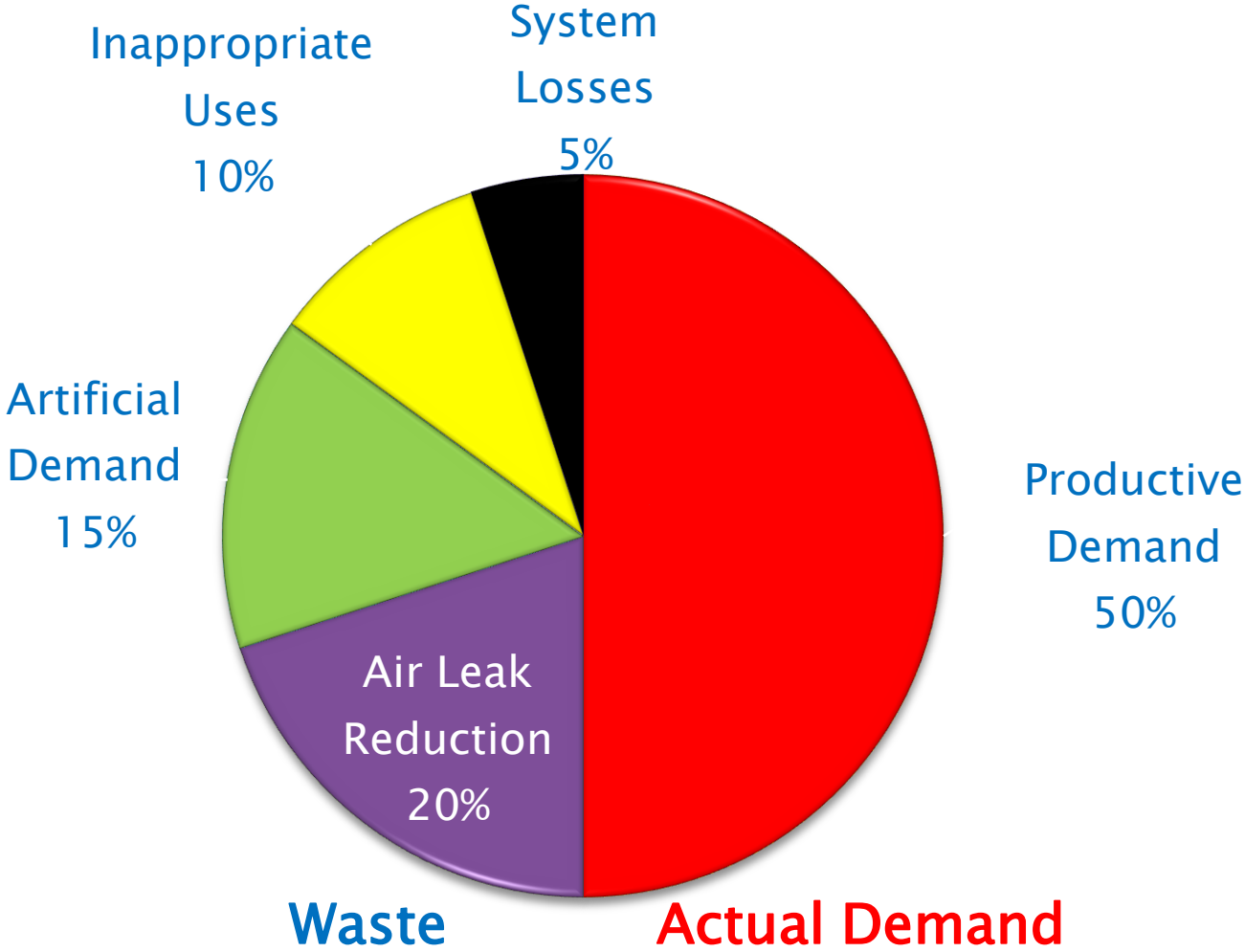


# COST OF PRODUCTION MATTERS

- ▶ It takes 7-8 hp of electricity produce 1hp in an air tool
- ▶ Power consumed in producing compressed air will impact the competitiveness of production units



# DO NOT WASTE YOUR PROFITS



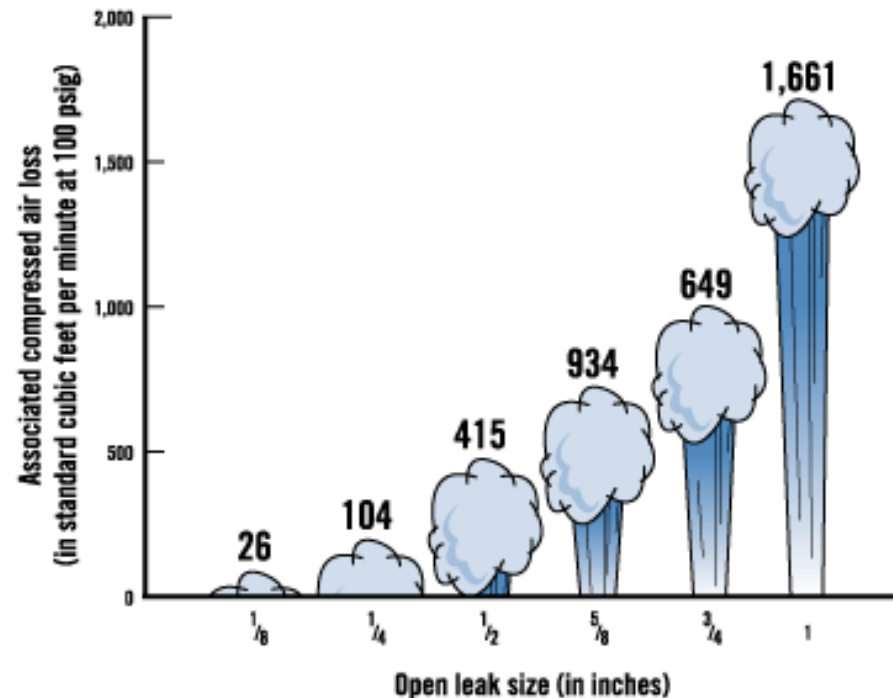
# AIRAUDIT HELPS YOU

- ▶ Identify compressed air leaks
- ▶ Diagnose and address production and pressure control problems
- ▶ Improve equipment maintenance
- ▶ System design/modification
- ▶ Save energy up to 30% and higher in compressed air system
- ▶ Improve air quality
- ▶ Increase productivity



# COMPRESSED AIR CHALLENGES

- ▶ Most air systems operate at artificially high pressures to compensate for flow functions and downstream pressure drops
- ▶ Compressed air and a significant amount of energy is lost due to waste and air leaks



# STEEL PIPES RUST AND LEAK

- ▶ By using conventional piping in compressed air system, pipe corrosion will increase approx. 25% by the end of 5<sup>th</sup> year

Years	% Leakage with GI Pipes
Year 01	0%
Year 02	7%
Year 03	13%
Year 04	20%
Year 05	25%



# OUR MAIN SERVICES

- ▶ Leak Management
- ▶ CFM (Cubic Feet per Minute) Monitoring
- ▶ Detail System Report & Analysis





# HOW WE HELP?

- ▶ Leaks detection
- ▶ Tagging
- ▶ Correction recommendations
- ▶ Leak tracking
- ▶ Integrated reports



# MEASURE & CONTROL

- ▶ Comprehensive audit of demand & Supply side flow
- ▶ Check the performance of compressed air system



# REPORTS LEADING TO SAVING

Detail Report on:

- ▶ System optimization
- ▶ Distribution
- ▶ Risk Assessment
- ▶ Cost saving
- ▶ Recommendations

Record Number	Group Name	Location Name	Type of Gas	Pressure at Leak	dB Reading	Problem Description	Repaired (Y/N)	Size of Leak CFM	Alarm Code
1	Indus Motor TOYOTA	Before dryer main all tank flange.	Air	100	10	Corrosion in iron pipe due to moisture	Y	0.4	Low Alarm
2	Indus Motor TOYOTA	Compressor main outlet flange	Air	100	12	Corrosion in iron pipe due to moisture	Y	0.5	Low Alarm
3	Indus Motor TOYOTA	Duck bumper sanding	Air	100	0	Loose fitting of flexible pipes	Y	0.0	Low Alarm
4	Indus Motor TOYOTA	line bumper	Air	100	0	Loose fitting of flexible pipes	Y	0.0	Low Alarm
5	Indus Motor TOYOTA	Bumper off line	Air	100	11	Loose fitting of flexible pipes	Y	0.4	Low Alarm
6	Indus Motor TOYOTA	Pusher 2	Air	100	0	Leaked pusher	Y	0.0	Low Alarm
7	Indus Motor TOYOTA	Clear mixing room	Air	100	28	Loose fitting of flexible pipes	N	1.5	Low Alarm
8	Indus Motor TOYOTA	Clear mixing room	Air	100	32	Loose fitting of flexible pipes	N	1.8	Medium Alarm
9	Indus Motor TOYOTA	202 black tank	Air	100	20	Loose fitting of flexible pipes	Y	0.9	High Alarm
10	Indus Motor TOYOTA	1A6 tank all pipe leakage	Air	100	26	Loose fitting of flexible pipes	Y	1.3	High Alarm
11	Indus Motor TOYOTA	Premier mixing room.	Air	100	19	Loose fitting of flexible pipes	Y	0.9	Low Alarm
12	Indus Motor TOYOTA	Clean exhaust fan cylinder	Air	100	0	Improper fitting of pneumatic pipe	Y	0.0	Low Alarm
13	Indus Motor TOYOTA	Bumper blower	Air	100	0	Improper fitting of pneumatic pipe	Y	0.0	Low Alarm
14	Indus Motor TOYOTA	Pusher 2.	Air	100	41	Leaked pusher	N	2.5	High Alarm
15	Indus Motor TOYOTA	Oven Burner	Air	100	0	Improper fitting of pneumatic pipe	Y	0.0	Low Alarm
								10.2	

Glossary	
	High Alarm
	Medium Alarm
	Low Alarm

# YOU EARN

What

you

save



**Thank you**