



**AES**  
Packaging Solutions, Inc.



# SUSTAINABILITY

**HOW TO REDUCE CARBON FOOTPRINT  
THROUGH ENERGY EFFICIENCY**

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# CARBON WASTE IN PACKAGING

As the world moves towards a more sustainable future in order to protect our environment, factories and food packaging plants are looking to reduce their carbon footprint. This includes reducing the use of virgin materials, increasing the use of recycled materials, and minimizing the amount of packaging used. The challenge however is that many plants find themselves caught between conflicting sustainability and performance-based priorities.

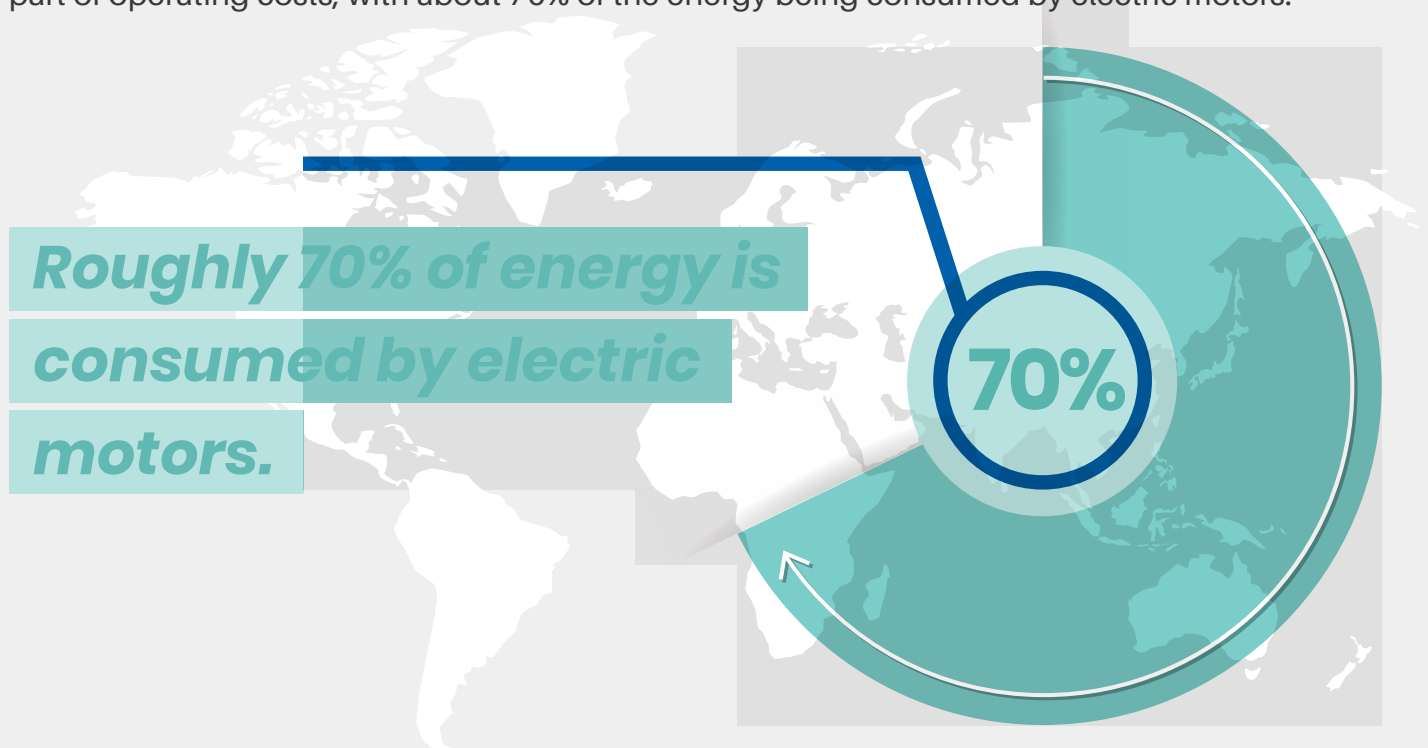
Reducing carbon footprint will be one of the most challenging tasks for the packaging industry in the coming years. There is an evident shift in public opinion and consumer spending based on the environmental impacts of industries, but machinery has to be updated to handle sustainable materials and packaging must be redesigned to be as minimal as possible.

At AES, our mission is to empower the food manufacturing and packaging world with a reliable, energy-efficient solution to clean manufacturing. To achieve this, AES equipment is not only designed to be energy-saving and reliable, but also capable of using eco-friendly materials.

## HOW DOES AES CONTRIBUTE TO SUSTAINABILITY?

### We Reduce Energy Consumptions in Our Machines

Packaging equipment relies on motors and drives to operate, making energy consumption a big part of operating costs, with about 70% of the energy being consumed by electric motors.



These systems require energy to pass through several rotating components before reaching the final mover. Energy is lost as it passes through each gear.

The lost energy dissipates as heat, shortening the lifespan of your equipment and creating waste as machines are phased out.

AES machinery is powered using One Motion mag-drives. The magnetic direct drive technology applies electromagnetic force to magnets to create rotary motion.

Electrical energy is used for direct mechanical rotation. There is only one transfer of energy. Based on tests conducted by One Motion, each mag-drive operates at a remarkable 94%+ efficiency, making it 55% more efficient than the conventional gearmotor.

### We Design Our Machines to Work with Eco-Friendly Materials

Conventional packaging is composed of multiple layers of plastic making it difficult to be recycled. For the sake of our planet, today manufacturers can opt for environmentally friendly mono-material or paper alternatives.

As your partners in packaging, our team can help you address each of these concerns, without sacrificing performance.

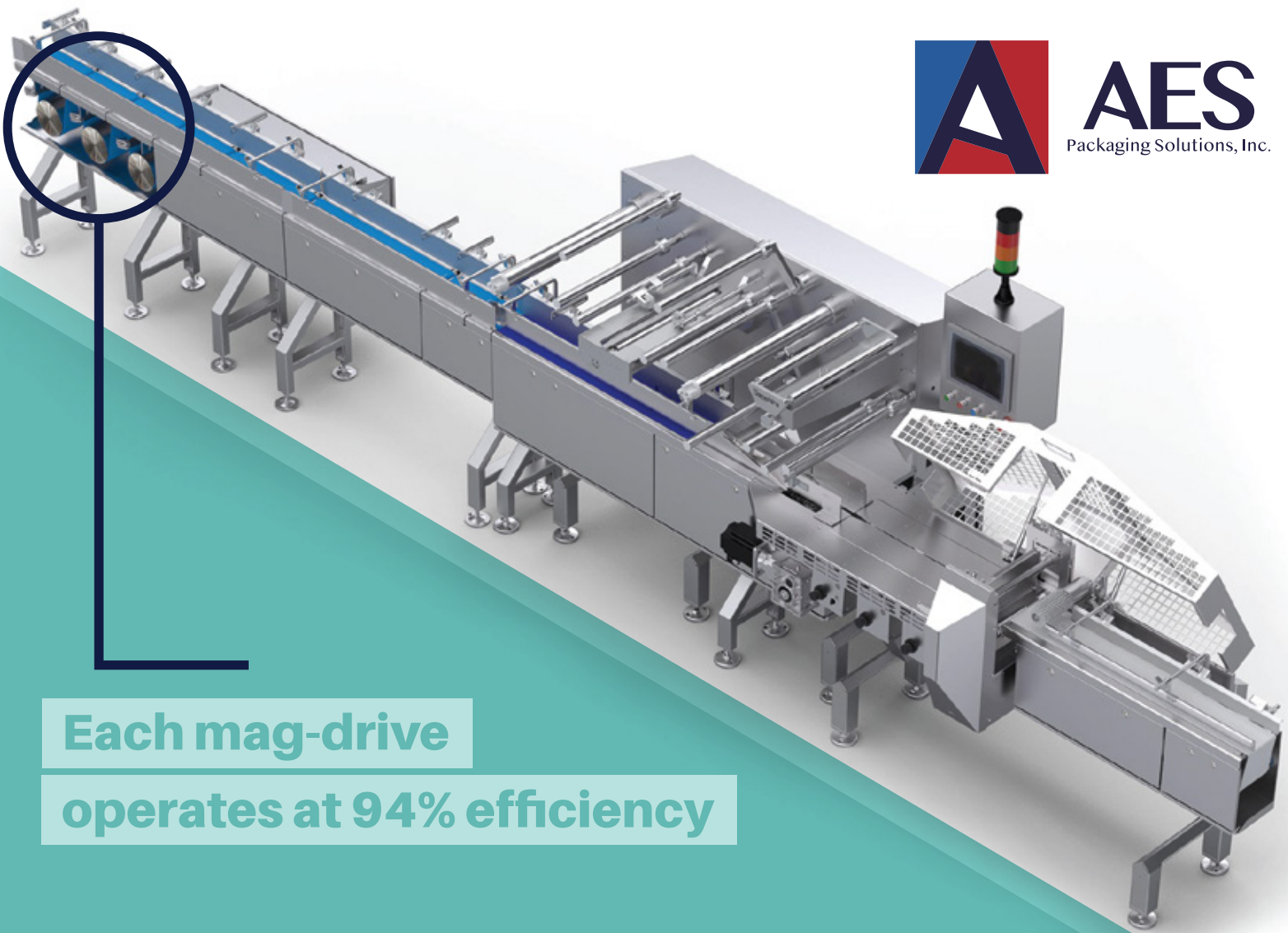


 <b>PAPER</b>	 <b>MONO-MATERIAL PLASTICS</b>	 <b>BIOPLASTICS</b>
By using fewer materials, we can reduce the amount of waste and pollution generated by the production process, while still ensuring that products are effectively protected and shipped to their destination.	Our easy-access fin-seal technology offers a reliable seal, even with very thin films.	Our machines are designed to package products in bioplastic films, helping our customers reduce their carbon footprint and prevent plastic litter.





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**Each mag-drive  
operates at 94% efficiency**

## PACKAGING A MORE SUSTAINABLE FUTURE

The AES line of equipment is highly efficient and can help customers achieve their GHG initiatives with high production performance:

- 55% Energy Reduction
- Each mag-drive operates at 94% efficiency
- Reduced GHG Emissions
- Cost-competitive
- Capable of Processing Eco-friendly Materials
- High Production Performance

**To Learn More, Visit:**

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