



## 4 WAYS TECHNOLOGY IS INNOVATING WASTE MANAGEMENT

READ THE ARTICLE AND INSERT THE RELATIVE CLAUSES IN RED

BACK INTO THE CORRECT PLACE. WRITE THE LETTER ON EACH GAP (1-9).

No matter what industry you're in, new technology is eventually going to come along and change the way business is done. That's why all of us here at Lakeshore Recycling Systems pay attention to the latest advances and newest tech industry. These efforts help us deliver the best possible services to our customers here in the Chicagoland area. Let's take a closer look at some of the ways <sup>1</sup>\_\_\_\_\_.



### TURNING WASTE INTO ENERGY



One of the biggest innovations coming to the waste management industry is the ability to turn waste into actual power. Instead of sitting in a landfill, certain types of waste can simply be converted into energy. New machinery known as “digesters” can take the waste and the biogas it produces and turn it into energy <sup>2</sup>\_\_\_\_\_. This kind of technology can be used on a variety of waste, including food, animal waste, agricultural leftovers, and more.

Thermal conversion is another new technology <sup>3</sup>\_\_\_\_\_. This process takes some cues from natural geothermal processes <sup>4</sup>\_\_\_\_\_. It could be used to turn waste into chemicals, fertilizers, oils, and other things <sup>5</sup>\_\_\_\_\_.

Some landfill gas can even be converted into energy. This kind of gas would normally be released or flared, but now it can be turned into energy with the aid of some new technology. Bioreactors, microturbine technology, and even fuel cells can now be used to do something useful with waste.

### NEW WAYS TO RECYCLE PRECIOUS METALS

So many products and industries require the use of precious metals. Because these minerals are so useful, they can be rather expensive. These materials <sup>6</sup>\_\_\_\_\_ can be used as catalysts in a wide variety of industries, including the automotive and chemical sectors.

New methodologies like plasma arc recycling can help our society meet rising demands for these materials. This tech can recover a vast majority of the platinum metal found in a vehicle or other object by using a super-hot plasma torch. Instead of mining for new ore, we can just reuse these materials and give them a second life.

### ADVANCES IN ROUTE EFFICIENCY

While it's not as cool as creating energy from waste or using plasma lasers, some technology has helped **waste removal** companies, like ours, optimize routes and improve efficiency. Advanced software has made it easier to plan out routes <sup>7</sup> \_\_\_\_\_. This not only makes it easier to collect the waste and recycling materials <sup>8</sup> \_\_\_\_\_. It also makes collection more fuel-efficient and reduces energy usage.

### NEW COLLECTION AND DISPOSAL TECHNOLOGY

New sensors can let waste management companies know that bins are full and need to be serviced. New types of screening technology can sort through recyclables quickly and efficiently <sup>9</sup> \_\_\_\_\_. At Lakeshore Recycling Systems, we'll keep incorporating the latest technology into our waste disposal and recycling efforts to make sure that we're delivering the best services to our customers and doing our part to preserve the environment.



- A** that use heat and pressure to turn useless materials into useful products
- B** that can be used on site
- C** that can efficiently guide waste collecting trucks
- D** that technology is innovating in the waste management sector
- E** that can be used to convert waste into specialty products
- F** , which takes the work out of the hands of consumers and encourage higher recycling rates
- G** that could give your waste another life
- H** that need to be collected
- I** , which include platinum, palladium, and iridium,