



## #Plastic Saves Energy



Recycling just **1** plastic bottle

saves enough energy to power a 60W light bulb for **6** hours



Without EPS packaging, energy consumption would double when compared to alternatives

The use of plastic composite panels in Swiss trains has led to a 25% reduction in weight and consequently significant energy savings



Insulating foams in buildings save 2,400 million tonnes of greenhouse gas in their lifetime

## #Plastic Saves Carbon

Compared to traditional building bricks, plastic building blocks emit **95%** less CO<sub>2</sub>



Recycling 1 tonne of plastic bottles saves **1.5** tonne of carbon

CO<sub>2</sub> impact equivalents for producing 1kg of PVC compared to producing 1kg of other products

To replace all the plastic bags being used in the European Union with paper ones in one year, you would need to cut down an additional **2.2 million trees**, which would prevent 2,188 metric tonnes of carbon being absorbed by the trees



## #Plastic Saves Water

Officials in Los Angeles recently released 96 million plastic balls into the 75-acre Los Angeles Reservoir in hopes of preventing **300 million gallons** of water from evaporating each year

The production of plastic bags consumes less than 4% of the water needed to make paper bags



Using plastics in modern washing machine drums reduces water consumption by **40-50%**

PVC pipes have the lowest overall failure rate when compared to other materials and are designed to last more than 100 years

## #Plastic Saves Fuel

For every 7 trucks needed to deliver paper bags, only 1 truck is needed for the same number of plastic bags



Over the lifetime of the average car, lightweight plastic parts save around **3,000 litres** of petrol as a result - which would get you to and from New York almost **5** times!



The Boeing 787 Dreamliner is comprised of **50%** plastic composites by weight and 80% by volume, which contributes to a 20% fuel saving

Plastics pipes use less energy to produce than concrete or iron and since lightweight they save on transport costs and emissions in the building industry



## #Plastic Saves Lives

Over **3,000** police officers' lives have been saved over the past **30** years due to the fact that protective vests are made with tough plastics materials



There are more than **10 million** 3D printed hearing aids worldwide

Seat belts, when used, reduce the risk of fatal injury to front-seat passenger car occupants by **45%** and light-truck occupants by **60%**



Every year, about **600,000** pacemakers, insulated by a polymer, are fitted globally

## #Plastic Saves Food

The shelf-life of beef can be extended by **5-10** days when using the most advanced plastics packaging solution



In Europe, only **3%** of all products delivered to customers are spoilt during transport thanks to packaging - compared to 50% in developing countries

Wrapping a cucumber in plastic film extends its shelf-life to up to **14** days



Wrapping bananas in a modified atmosphere bag extends shelf-life by **2 to 3** days

