



Plastic



Paper



Carton



Styrofoam



Fabric



Sack



Segregation



Shredding



Pressing & Packing



Fluff Fuel

### PRODUCT

This solid waste management mechanism provides another use of discarded plastics that would most likely be dumped in landfills or pollute bodies of water. It recycles what would otherwise be considered trash into an alternative source of energy called **“Fluff Fuel”**.

Factors	Fluff Fuel vs. Coal Fuel
CO <sub>2</sub> Emission	17% reduction
Calorific Value	> 5,000 kcal/kg
Moisture	< 20%

- 8 DECENT WORK AND ECONOMIC GROWTH
- 11 SUSTAINABLE CITIES AND COMMUNITIES
- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
- 13 CLIMATE ACTION
- 14 LIFE BELOW WATER
- 15 LIFE ON LAND

### INNOVATION

SM GUUN’s system answers the pressing issue of pollution particularly with waste plastics which causes flooding during rainy days. These wastes clog drainage systems, and end up in rivers and oceans, threatening vulnerable marine wildlife.

Collected and pre-segregated wastes are fed into shredders and are packed automatically. The finished product is a fluff fuel for cement companies, a cleaner and cheaper alternative to coal. Fluff fuel has a less CO<sub>2</sub> emission compared to coal. Hence, not only does this system help preserve marine habitats, it also helps mitigate greenhouse gases.

### COMPANY PROFILE

SM GUUN specializes in waste wood and plastic recycling, and waste management consulting. The company aims for sustainable waste management by reducing waste plastics in landfill.

### CONTACT INFORMATION

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# Sustainable Development Goals

## Shift to sustainable waste management



## Preventing flood



## Mitigation of global warming

CO<sub>2</sub> reduction: **11,299 tonsCO<sub>2</sub>/a**  
≡ A-type heavy oil consumed  
**209 units** of 20kl Truck lorry



## Creating job opportunities, enhancing education

