

According to some estimates, at the speed with which we dispose of plastic products - bottles, bags, and disposable cups, films and foils, food containers - by 2050, there will be more plastic in the ocean than fish...

Source: OSN



Providing an Environmentally Friendly solution to Plastic Waste

Unparalleled Opportunities To recycled End of Life Plastics

Martin Hodan | 07/2020



Unique technology **Extremely Effective recycling** Converts plastic into pure, quality oil Inside its own ISO container Modular and scalable **Plug&Play device – fast installation** Direct use of the oil in industry **Very low Carbon Footprint** Almost no emissions



What plastics OPTIMUS works with?

POLYETHYLENES (PE, LDPE, HDPE) POLYPROPYLENS (PP) POLYSTYRENS (PS)

This group of plastics represents majority of the plastics consumed by all of us – known as communal waste. (The most critical out of all plastic waste types).

Examples: Plastic bags, food containers, yoghurt cups, wrapping materials, all containers from shower gels, shampoos, cleaning, products for households etc.



What plastics OPTIMUS DOES NOT work with?

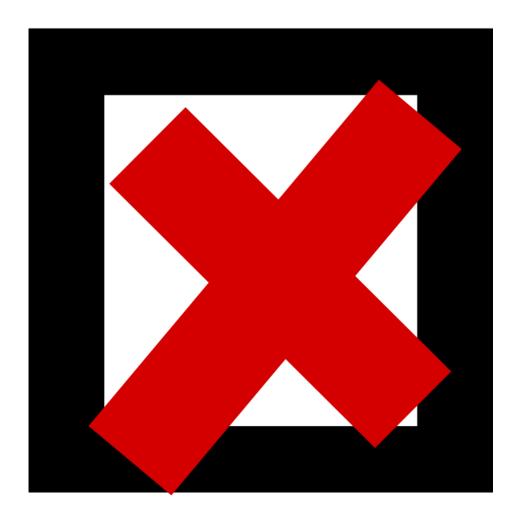
PVC PET

ABS

Other technical materials which uses various mineral additives and fillers.

Examples: PET bottles, all PVC containing materials, industrial type of plastics, which are mixed with other components to achieve desired characteristics.





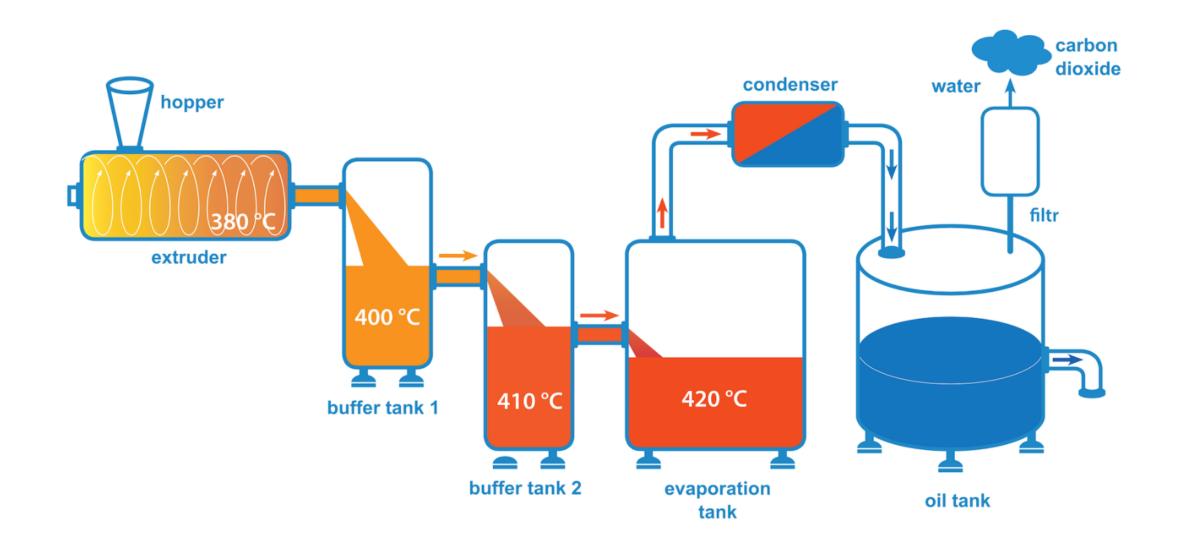


Other specifics.

- Certified technology
- Simple process easy to operate
- Fully automated
- Designed to run 24/7 and 340 days/year (28 days + 2 days for service and maintenance)
- Safe equiped with the most advanced safety systems
- Highly Economically profitable even WITHOUT SUBSIDIES

THE PRINCIPLE





THE UTILIZATION OF THE OIL





THE UTILIZATION OF THE OIL





SAVING THE PRIMARY SOURCE - CRUDE OIL | LOWERING CARBON FOOT PRINT | CREATING SIGNIFICANT VALUE

OPTIMUS in the context of its carbon footprint & Environmental and Climate change protection

The synthetic oil which Optimus produces from End of Life plastics has **extremely low carbon footprint <24 g CO2 eq.**

Thus, OPTIMUS offers:

- A solution with high recycling potential (1kg = 1liter + 1% of residue + 5% proces gases)
- An ideal alternative to other ways of treating Waste(i.e. burning, dumping into our oceans and rivers or landfilling).
- To limit the production of greenhouse gasses by utilization of the oil, as required by Paris Agreement.



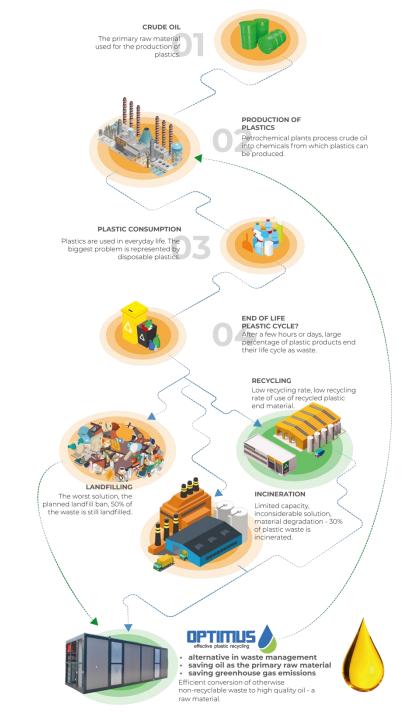
OPTIMUS & THE PRINCIPLE OF THE CIRCULAR ECONOMY

CRUDE OIL AS A SOURCE PRODUCTION OF POLYMERS (PLASTICS) <----PLASTIC CONSUMTION

END OF LIFE PLASTIC CYCLE

AFTERLIFE

INEFFECTIVE RECYCLING LANDFILLING INCINERATION OPTIMUS



A FEW REASONS TO USE OPTIMUS



- Highest purity and quality of the oil = cutting costs
- Lowering the carbon footprint
- Reputation and active participation



OPTIMUS in Europe to start with...





Why are we focusing on Europe?

- Existing partnerships
 - One legislation
 - No duty
- Awareness of the problem
 - Hunger for a solution

OPTIMUS in the United Kingdom



GLOBAL PERSPECTIVE

- No such technology present in the world
 Great interest shown from all over the globe
 - Actively helps to solve plastic waste issues regardless the location
 - Low realization cost, fast deployment

Issues we are facing globally

 Lack of supporting legislation, despite the need to solve the problem – however majority countries are working on this





Thank you for your attention!

www.optimus-recycling.cz