

2022/CTI/SYM1/018

Sharing Sustainable Business Best Practices, Success Stories Among APEC Economies: Health and Wellness and Other Products and Services -Biodegradable Packaging for Environment PLC

Submitted by: Biodegradable Packaging for Environment PLC



APEC Bio-Circular-Green Symposium Bangkok, Thailand 20 May 2022





Company Profile

Biodegradable Packaging for Environment PLC, Thailand



TIME

U.S. CITIES

New York City Bans Single-Use Styrofoam Products

Eliana Dockterman @edockterman Jan. 8, 2015











Ban will go into effect July 1

Former New York City Mayor Michael Bloomberg left office in 2013, but his plan to ban styrofoam is finally coming to fruition.

Mayor Bill de Blasio's administration announced Thursday that stores, food service establishments and manufacturers won't be able to possess, sell or offer single-use styrofoam containers or cups - even "packing peanuts" -

beginning July 1. The reason is purely environmental, as Expanded Polystyrene Foam cannot be recycled.

"These products cause real environmental harm and have no place in New York City. We have better options, better alternatives, and if more cities across the country follow our lead and institute similar bans, those alternatives will soon become more plentiful and will cost less," said de Blasio. "By removing nearly 30,000 tons of expanded polystyrene waste from our landfills, streets and waterways, today's announcement is a major step towards our goal of a greener, greater New Voel City"



A food cart worker filled a styrofoam take-out container for a customer in Ne

RECON

Micro

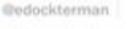
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Charge

Spencer Platt-Getty Images. U.S. CITIES

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Announcement The use of foam is prohibited in all stores and restaurants.



Degradation period in nature



Product	Degradation Period
Paper	2-5 Months
Orange Peel	5 Months
Cigarette Butts	12 Years
Can	80-100 Years
Plastic	450 Years
Foam	Does not Decompose



ONE PLANET.

How much foam and plastic do we use today?



From the statistical data, it was found that

Thai people throw away plastic and foam waste

Average 2.3 pieces per person per day

If more than 60 million Thai people to separate plastic and foam waste into proportions and put them together

In one year, plastic bags and styrofoam boxes will be collected.

Total about.....

 $2.3 \times 60,000,000 \times 365 = 50,370,000,000$ bags or boxes

Public

(Five thousand, three hundred and seventy million)







Amount of Waste

From foam and plastic in Thailand per day If they put them together, they would be as tall as a 10-floors building.





In a year, we build a 10-floors building from waste = 365 buildings.

ONE LIFE.

Public



ONE LIFE. ONE PLANET.



Microplastic



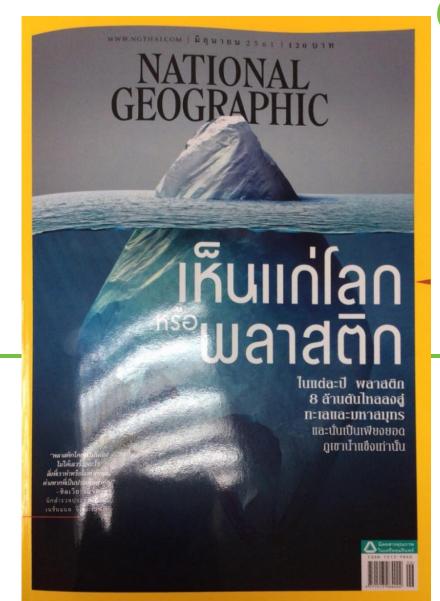














ONE LIFE





NO Single Use Plastic



ONE LIFE. ONE PLANET.





"There has never been a more urgent need to revive damaged ecosystems than now"

"Ecosystems support all life on Earth. The healthier our ecosystems are, the healthier the planet - and its people"















Because we believe we have only "One Life,One Planet", we try our best to preserve it as best as we can. Gracz is a compostable tableware and packaging products for lifestyles of health and sustainability.





Public

"One Life,One Planet"



Solution to restore ecosystem





FROM NATURE TO NATURE

Product Circular under brand "Gracz"

- Creates value from agriculture waste.
- Reduces the burden on landfill sites from the first until the last process.
- Does not cause any air pollution(PM 2.5) nor release any harmful chemicals to any lives.



ONE LIFE.







From Waste

To Value

100% made from

Natural Plant

Fiber





3 Main benefits

ONATURAL Plant Fiber Product

- Health: Non toxic and non carcinogen
- Environment:
 Compostable within 45
 days
- Functions: Microwavable
 e, Ovenable, and
 Freezable

Add Value to waste, add Health and Wellbeing to people





Public



Hot & Cold



Freezable











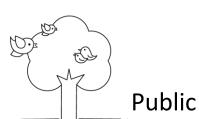


Public









Microwavable



Environmental friendly



- Gracz made from 100%natural plant fiber (non-wood fiber)
- Compostable & Fertilizable within 45 days without any chemical left to the environment





ONE PLANET.

Save the World







ONE LIFE ONE PLANET

Solution to beat plastic pollution



Compostable Packaging made of 100% natural plant fiber



Health

Non toxic and non carcinogen

Environment

- Natural plant fiber
- No plastic coating
- Compostable and fertilizable within 45 days

Functions

- Hot water (95-100 Celsius)
- Hot oil (120 Celsius)
- Microwavable (1300 watt for 5 minutes)
- Ovenable (200 Celsius for 30 minutes)
- Freezable (minus 20 Celsius for 24 hours)













ONE LIFE. ONE PLANET.



Variety of Products Food Packaging – hot and cold use











ONE LIFE. ONE PLANET.

ONE PLANET.

Variety of Products Food Packaging - Ovenable











ONE LIFE. ONE PLANET.









































Variety of Products Beverage Packaging









ONE LIFE.

Public

Variety of Products Frozen food - Ice-cream









ONE LIFE. ONE PLANET.



Variety of Products Frozen food – Ready Meal











Functions

- Hot water (95-100 Celsius)
- Hot oil (120 Celsius)
- Microwavable (1300 watt for 5 minutes)
- Ovenable (200 Celsius for 30 minutes)
- Freezable (minus 40 Celsius/chilled 18 Celsius for 18 months)
- Product is topsealable



ONE FLANEI.

Public

Variety of Products Non-food packaging: Medical Equipment









Variety of Products Non-food packaging : Medical Equipment













Variety of Products Non-food packaging : Agriculture









ONE PLANET.



Our Vision

All lives live healthier in a safe natural environment

Our Mission

BPE creates nature to nature innovation by maximizing use of natural materials for healthier living while ensuring complete integration back to nature.

BPE offers innovative bio-renewable solutions for quality of life and safe environment.

Our Core Value

。Health 。Environment 。Team Spirit 。Innovation 。Accountable 。Possibility



ONE PLANET.

Our factory















ONE LIFE ONE PLANET



Certificates























ONE LIFE. ONE PLANET.





One Life, One Planet











Thank you



"All lives live healthier in a safe natural environment"







