



SET Awards 2024

Sustainability Excellence,
Supply Chain Management

Presented by
SD and SSCM Team

Date
August 28, 2024



Company Overview

A.J. PLAST

To serve innovation Solutions for the world's sustainable consumption



“World Class Film Products for Ultimate Customer Satisfaction”



Vision: Good business model of plastic film industry in the field of supply chain management



Company Background

- A.J. Plast PLC was established in 1987
- Headquartered in Bangkok Thailand
- A high quality **Biaxially Oriented (BO) Films** manufacturer
- The complete flexible packaging solution with **313,500 TPA** capacity
- 3 Plants in Thailand and Vietnam



Supply Chain Management Plan



A.J. Plast Product

BOPP Film



BOPET Film



BOPA Film



CPP Film



MET Film

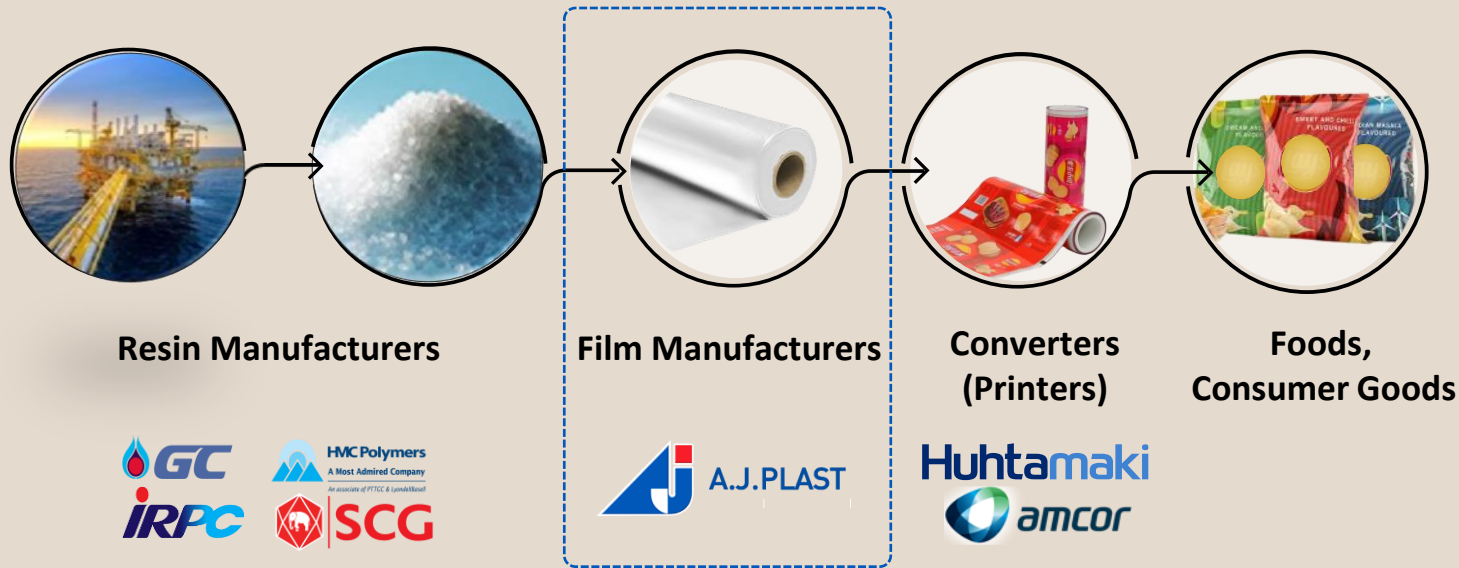


Unilever



AJINOMOTO

A.J. Plast Supply Chain

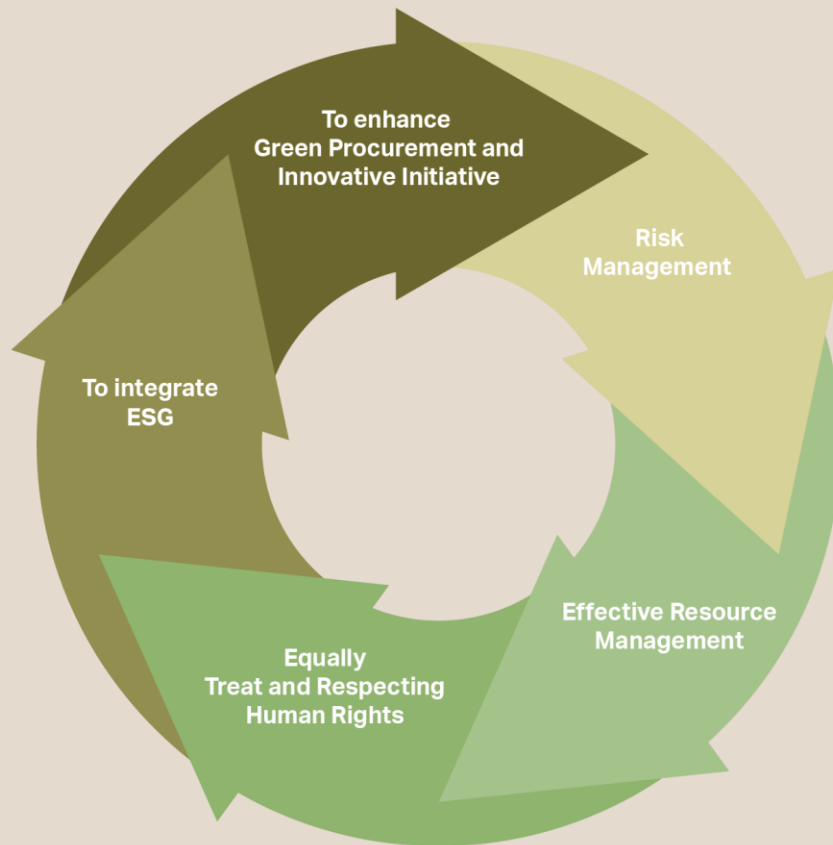


Company Sustainable Strategy

Continuous and Sustainable Growth	Business Operation with Environmental Responsibility	Potential People and Society Development
<p>High-quality raw material sourcing</p> <p>Responsibly Business Operation</p> <p>Risk Management</p> <p>Innovation Management</p>	<p>Energy Management</p> <p>Water Management</p> <p>Waste Management</p> <p>Greenhouse Gas Management</p>	<p>Employee Well-Being</p> <p>Human Capital Development</p> <p>Human Rights Respect</p> <p>Corporate Citizenship and Philanthropy</p>



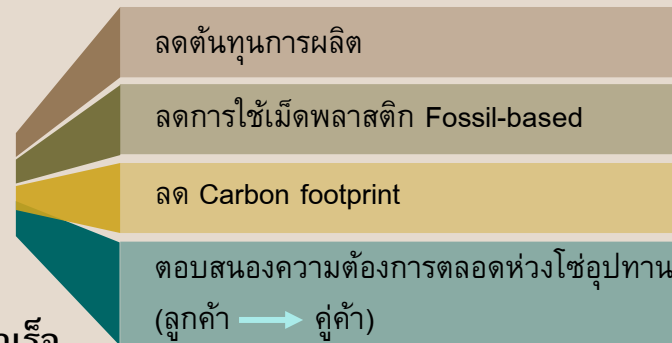
Supply Chain Management Strategy



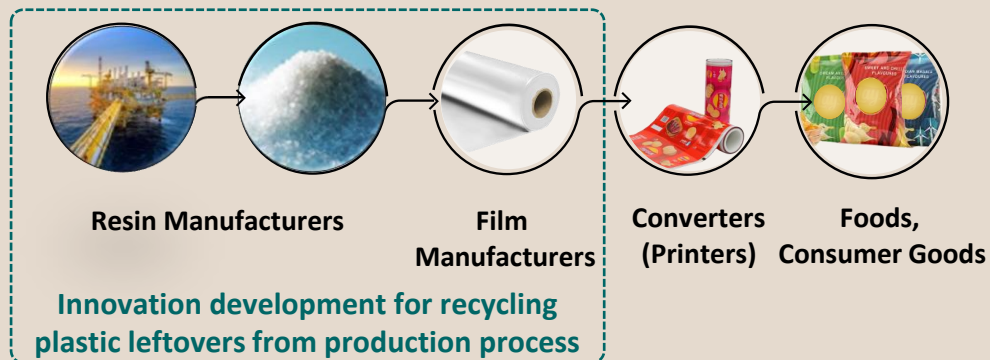
- To Enhance Green Procurement and Initial Innovation for High-Quality Raw Materials
- To Manage Risk
- To Manage Effective Resources
- To Source Raw Materials Considering Ethic, Equality and Respecting Human Rights
- To Integrate Environmental, Social and Governance (ESG)

(1) กระบวนการจัดการห่วงโซ่อุปทาน

- กระบวนการผลิตฟิล์มที่มีคุณภาพใช้วัสดุรีไซเคิล (PIR, PCR)
- กระบวนการจัดหาที่ทำให้กระบวนการข้างต้นประสบความสำเร็จ ซึ่งรวมถึงวัตถุดิบและเครื่องจักรที่มีเทคโนโลยีที่ทันสมัย



Supply Chain Management through Value Chain



Recycling Process

PIR Process



100% Virgin resin reduced



The best recycling technology with less contamination



Best quality of recycled pallet



DFD: Direct Flake Dosing Process



20% virgin resin reduced



0.3 kWh/kg energy saving from PIR process



Better quality compared to normal recycling process



The best recycling technology with less contamination



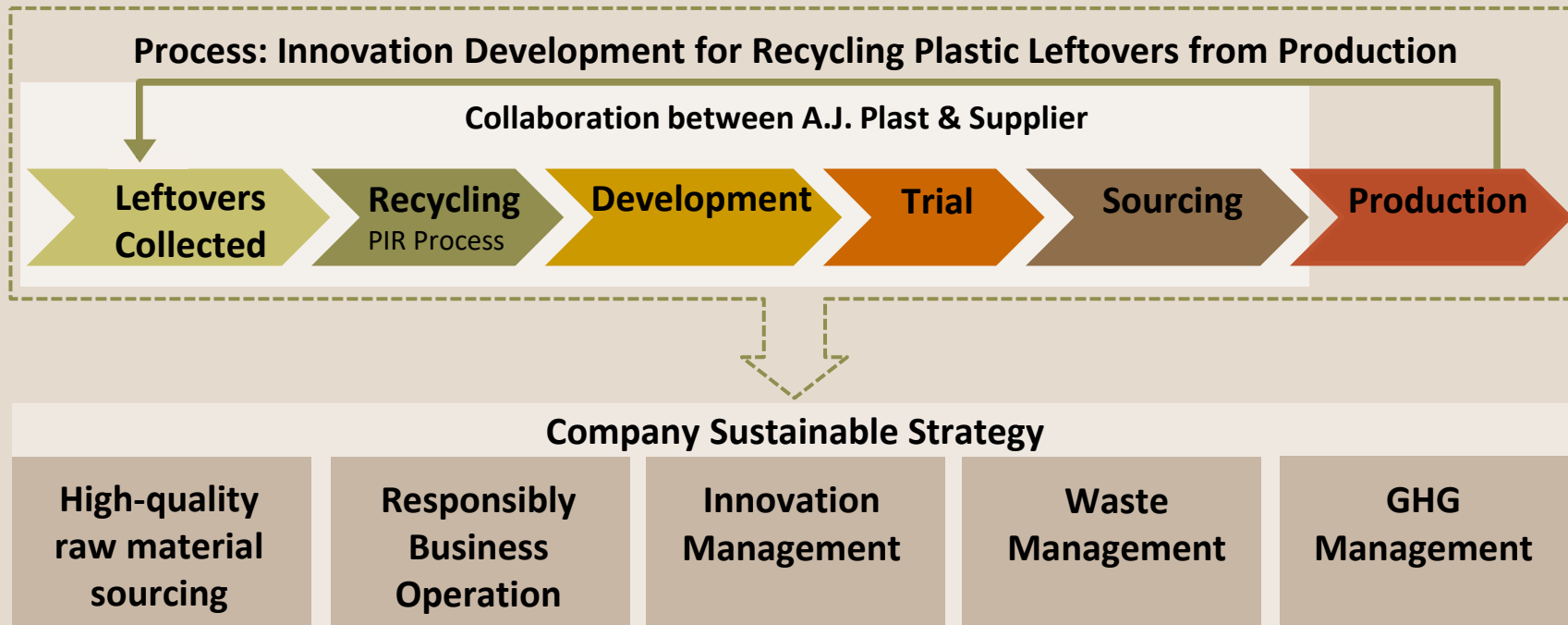
Best quality of recycled pallet

Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production

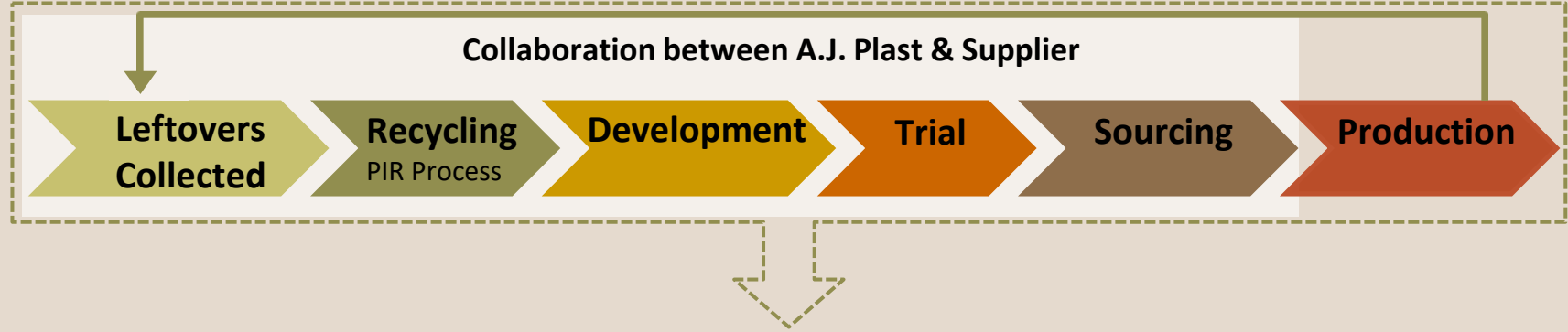


- | | | | | | |
|---|---|--|---|--|---|
| <ul style="list-style-type: none"> • Plastic film leftovers from production • Transferring to recycling process | <ul style="list-style-type: none"> • Plastic film converted to be recycled pallet by melting • Post industrial recycled (PIR) | <ul style="list-style-type: none"> • Working team and supplier collaboration • Identifying and set property of PP recycled resin with suppliers • Supplier producing sample for trial | <ul style="list-style-type: none"> • Recycled resin trial until the quality and property meeting development objective • After approval trial, RD team plan and produce BOPP film trial • Film quality and property checking • Summary the development result | <ul style="list-style-type: none"> • Starting PIR PP resin trial lot for commercial | <ul style="list-style-type: none"> • PIR BOPP Film (Green product) |
|---|---|--|---|--|---|

(2) ความเชื่อมโยงระหว่างกระบวนการกับกลยุทธ์



Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production



High-quality raw material sourcing

- High quality recycled raw material (PIR, PCR resin)
- The best recycling process technology with less contamination
- Good quality of recycled pallet for development

*PIR: Post Industrial Recycled

*PCR: Post Consumer Recycled

Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production



Responsibly Business Operation

- ESG business operation
- Enhancing sustainable collaborative operations
- Sustainable concept supported by green products

Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production



Innovation Management

- Collaboration for green product development
- Green products (PIR, PCR film)
- Low-carbon products

*PIR: Post Industrial Recycled

*PCR: Post Consumer Recycled

Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production



Plastic film waste in production circulating to be raw material -

Circular economy from feeding to production -



Waste Management

Process and Strategy: Innovation Development for Recycling Plastic Leftovers from Production



Carbon footprint organization and product reduction -
Toward Net Zero (Scope 3) -

**GHG
Management**

Corporate Target



20% increased of recycled and bio-based raw material consumption



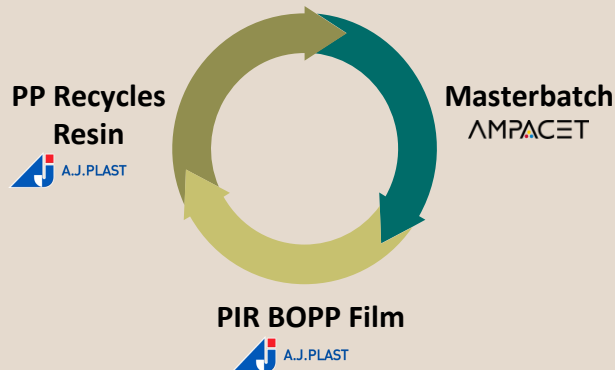
1 new green products



(3) บทบาทการมีส่วนร่วมของคู่ค้า

Supplier Collaboration

- Enhancing sustainable collaborative operations in supply chain
- Working team for developing recycling plastic leftovers from production to blending recycled content in PP masterbatch which is mixed to be raw material and adjust the properties of the film
- Collaborating with masterbatch supplier, **Ampacet (Thailand) Ltd.**
- Supporting and closing circular economy loop



(4) ผลลัพธ์

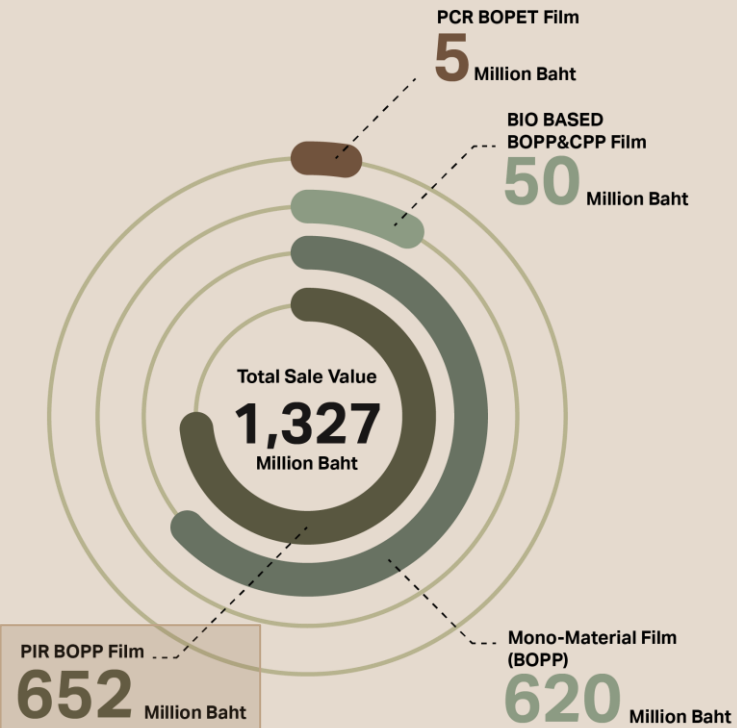
Target

- 20% recycled and bio-based raw material increasing usage
- 1 new green products

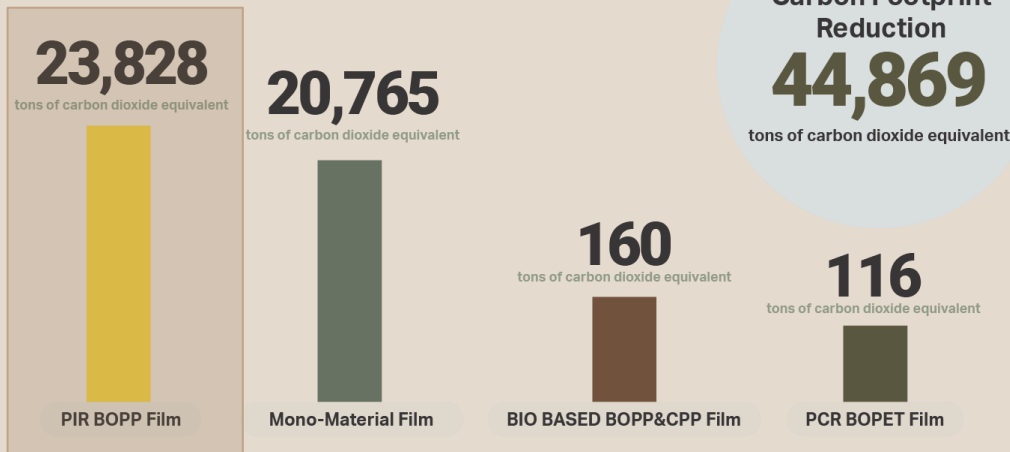
Result

- 40% recycled and bio-based raw material increasing usage
- 44,869 tonCo2eq reduction for green products with sale value 1,327 MB. for year 2023
- 14 new green products

Result



The Amount of Carbon Footprint Decreases of Green Products



(5) ประโยชน์ที่ลูกค้าได้รับ

Benefits of Supply Chain Collaboration

Suppliers

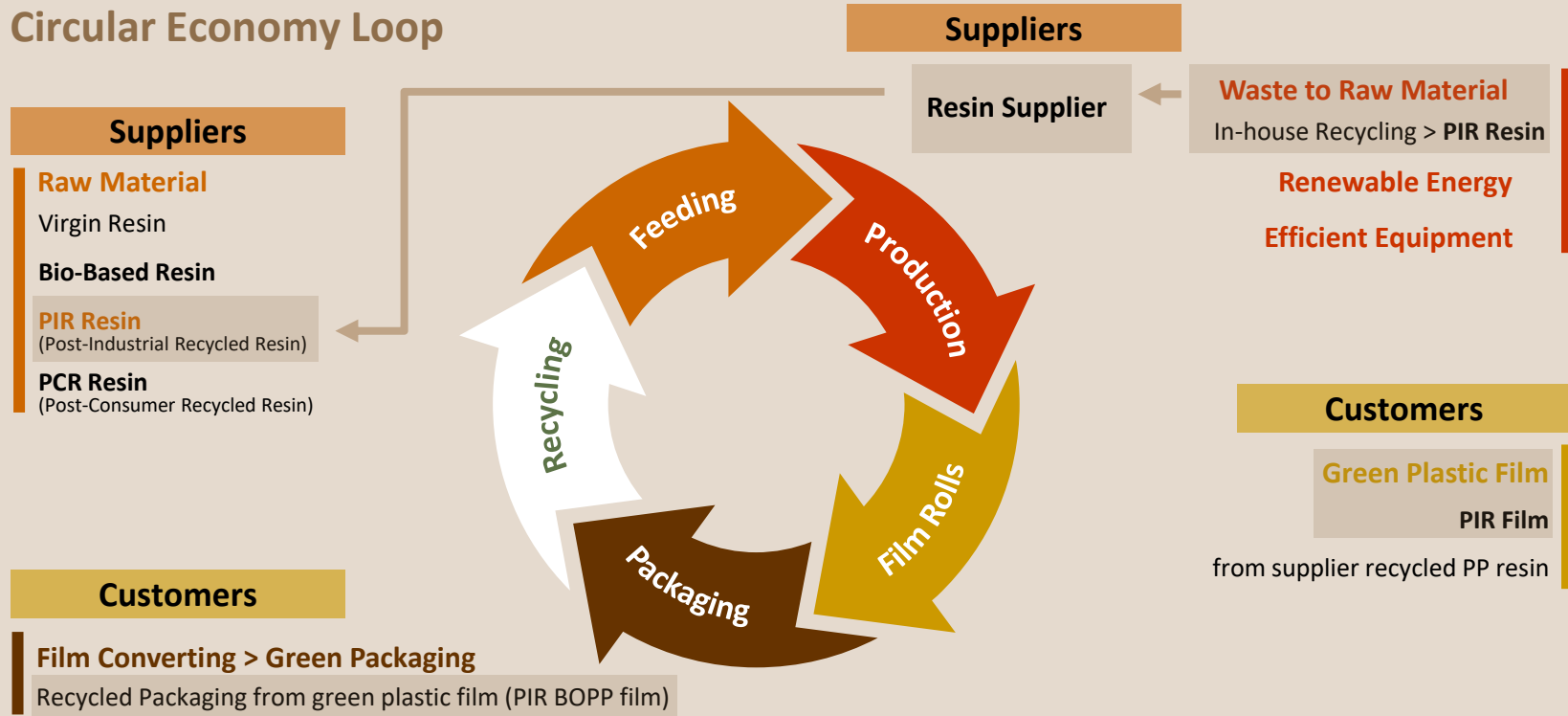
- 1. Enhancing sustainable collaborative operations**
- 2. Cost Competitiveness**
- 3. Competitive advantage**
 - Value added products (environmentally friendly)
 - Carbon footprint of organization and product reduction
 - Circular Economy
 - Toward Net Zero through supply chain
- 4. Market share for green products**
 - Customer base expansion

Customers

- 1. Competitive advantage**
 - Value added products (environmentally friendly/Sustainable)
 - Carbon footprint of organization and product reduction
 - Circular Economy
 - Toward Net Zero through supply chain
- 2. Market share for sustainable trend**
- 3. Customer satisfaction for green packaging requirement**

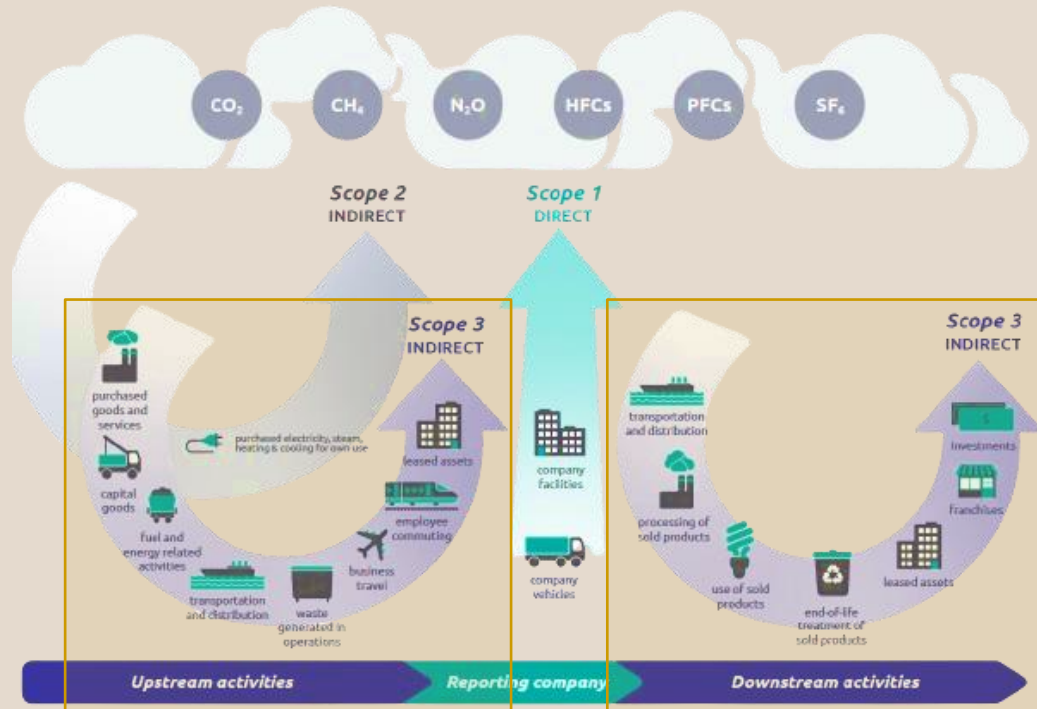
Benefits of Supply Chain Collaboration

Circular Economy Loop



Benefits of Supply Chain Collaboration

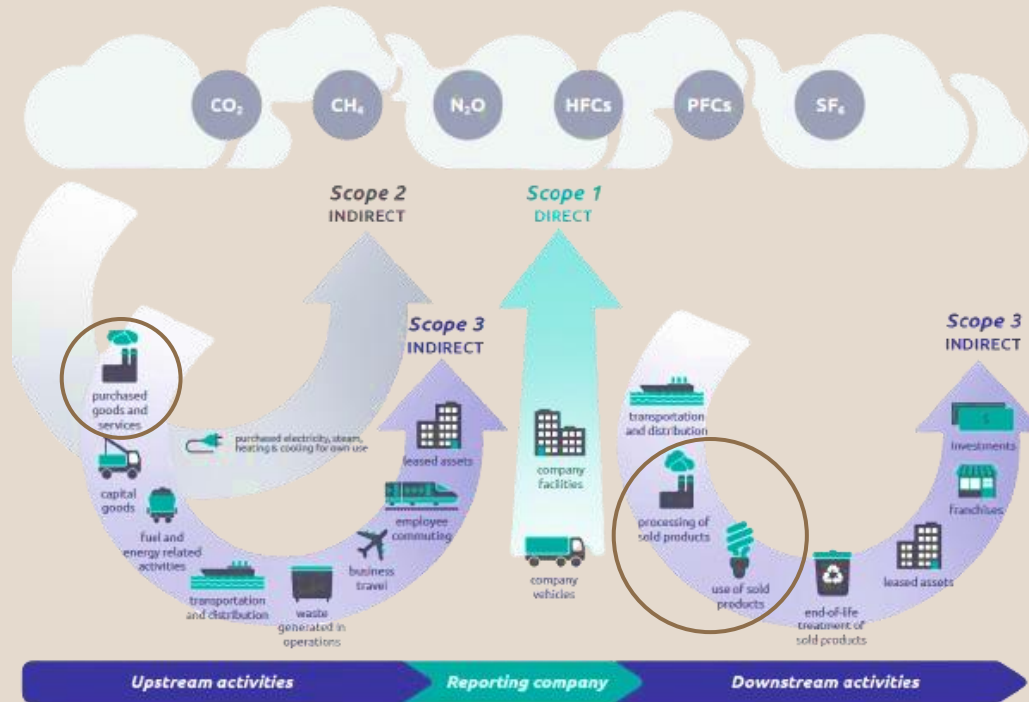
Toward Net Zero through supply chain



- Reducing carbon footprint Scope 3
- Reducing fossil-based material
- Environmentally friendly products supporting ESG operation
- Sustainable supply chain (upstream to downstream)

Benefits of Supply Chain Collaboration

Toward Net Zero through supply chain



- Reducing carbon footprint Scope 3
- Reducing fossil-based material
- Environmentally friendly products supporting ESG operation
- Sustainable supply chain (upstream to downstream)



Thank you

Questions & Answers