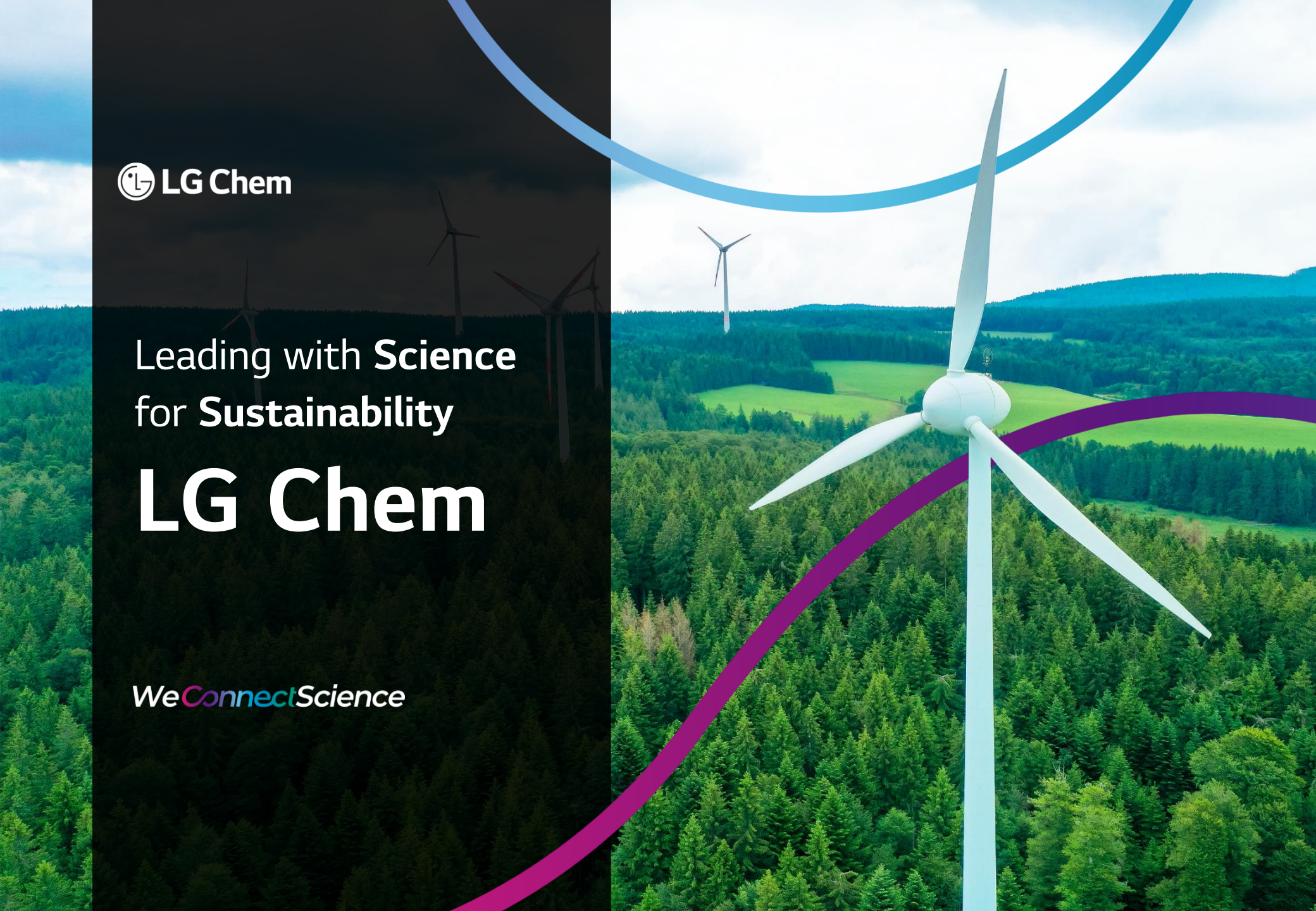

LG Chem
Leading with Science
for Sustainability
LG Chem
WeConnectScience

LG화학

LG Chem's Sustainability Strategy

WeConnectScience

LG Chem | Business Area

Business units

Advanced Materials

- Engineering Material
- RO Filter
- Battery Material
- Semiconductor Materials
- IT Material

Petrochemicals

- NCC
- Acrylates/SAP
- CNT
- Polyolefins
- HPM
- ABS
- PVC/Plasticizers
- Catalyst

Life Science

- Primary Care
- Specialty Care
- Aesthetic

Financial Result

Sales in 2021

USD **37.3**bn (Approx.)

Workforce

18,800(Person)

Domestic 13,920

Overseas 4,880

(Approx.)

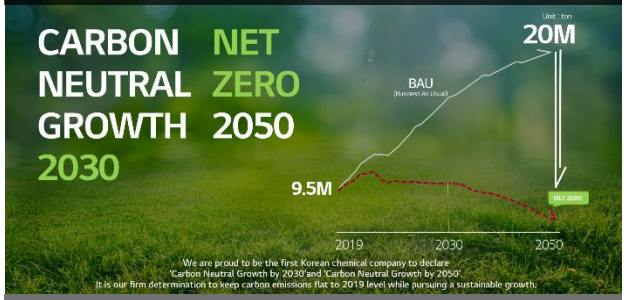

Sustainability

LG Chem's sustainable strategy

LG Chem call to action includes aggressive carbon reduction, increased green energy and circular resource system

Carbon Neutrality

Ambitious carbon reduction target



Carbon neutral by 2030 and "Net **Zero** by 2050"

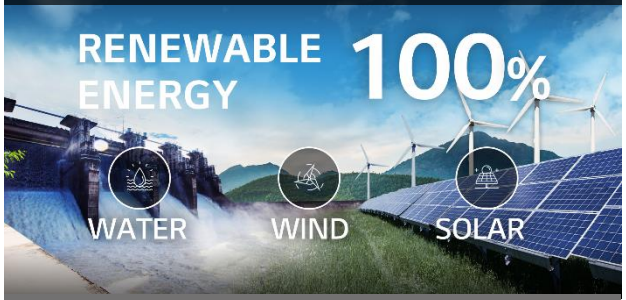
- First Korean chemical company to establish carbon reduction target
- 30 million tons of CO2 to be avoided, equivalent to emission from 13 million cars per annum

Detailed carbon reduction strategy

- Expand renewable energy usage and increase energy efficiency in processes/equipment
- Leverage carbon capture utilization storage technology

Renewable Energy Usage

100% renewable energy



Introducing 100% renewable energy for all business sites at corporate level

- Reduce carbon emission by 60%+ by 2050 through 100% renewable energy usage
- Implement mid- and long-term strategies leveraging renewable energy supply methods and national system

RE100 in all business sites at divisional level

- Established renewable energy 100% in CQ, GZ in China, EU and KR plant since Jan 2022
- Plan to meet renewable energy 100% in APAC plants by Dec 2022

Circular Economy

Sustainable portfolio for circular economy

Sustainable portfolio and green environment commitment

- Plan to commercialize mechanical and chemical recycling as well as leverage biomaterials
- Reduce landfill wastes to zero at current sites and mandate zero wastes in new sites

Transparency in all products throughout value chain

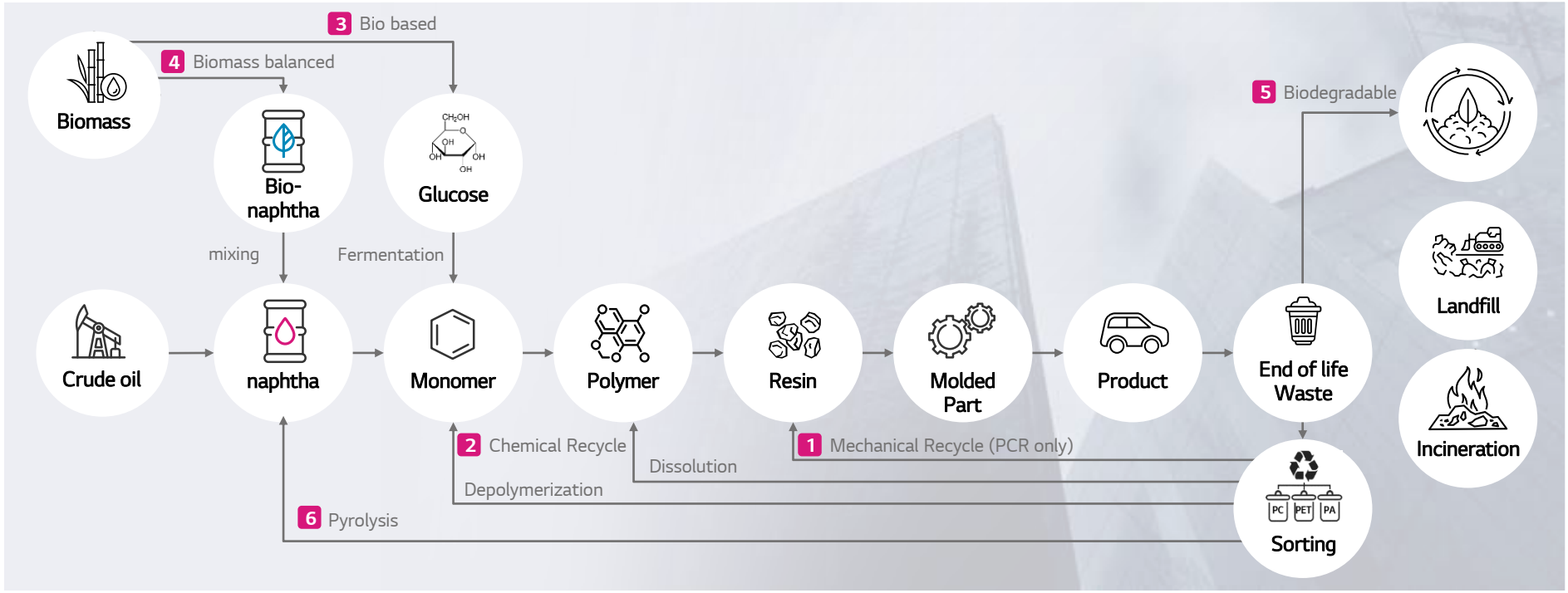
- Supply carbon footprint quantification for all products using LCA*
- Analyze social impact along value chain with PSIA* initiatives

*LCA (Life Cycle Assessment)
*PSIA (Product Social Impact Assessment)

Overview of LG Chem's Sustainable Portfolio

Engineering Materials division adopted 4 technologies as future promising technologies in sustainability perspective.

Overview



Product Line

1 Mechanical Recycle	2 Chemical Recycle	3 Bio-based	4 Bio-mass Balanced	5 Biodegradable
• PC, PC/ABS, PA66 • OBP PA6, PET * OBP : Ocean Bound Plastic	• PC, PC/ABS • PBT, TPEE 6 Pyrolysis - 43K MT(~'24)	• PA56 (Replaceable of PA66) • PBT, TPEE	• PC, PC/ABS	• PLA - 75K MT(~'25) • PBAT - 50K MT(~'24), 100K MT(~'27)

LG Chem | Eco-friendly Brand

Eco-friendly Material Brand LETZero

A compound word of "Let" and "Zero," which means "to turn harmful substances to the environment and the net increase in carbon emissions into zero."

LETZero Product Line

Recycle

PCR ABS
Electrical/electronic products, automobiles, construction materials, etc.

PCR PC, PCR PC/ABS
Electrical/electronic products, automobiles, industrial materials, building materials

PCR PP
Packaging materials, medical instruments

PCR PE
Packaging materials, medical instruments

Bio materials

Bio mass balanced SAP
Diapers, menstrual pads

Bio mass balanced NPG
Paint, PET film, coating agents, adhesives, UPR

Bio IPA
Semiconductor/LCD manufacturing detergent, paint, pharmaceuticals, and cosmetics

Bio mass balanced Acrylates
Paints, adhesives, coating agents

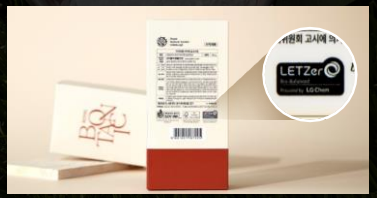
Biodegradable

PLA
Packaging materials, film, 3d printing

PLH
Disposable bags and gloves

PBAT
Agricultural film, packaging materials

LETZero Certification



Royal Botanic Toothpaste by LG Household & Health Care with LETZero Certification

Bus stop built with PCR materials

LETZero Product Package

Mechanical Recycle

Collector

Collecting

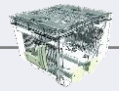
Grinding

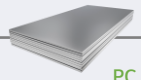

Cable Tie PA66

Fishing Net PA6, PET


Headlamp PC


Airbag PA66


Wafer Box PC


Sheet PC

Industrial Accessories

ELV
End of Life Vehicles

Semi-conductor

LG Chem

×

Recycler

Washing

- Heavy material elimination -> Filtration of specific gravity
- Light material elimination -> Rotation of high-speed
- Decontamination -> Washing at high temperature
- Painting and coating elimination ->Exposing ultrasonic wave

Sorting

- Material sorting -> IR separation
- Transparent or others -> Color separation

Pelletizing

- Executing thorough inspection(Izod, HDT, Heavy metal, Foreign materials)

Compounding

- Customized design to meet customer's CTQ
- Well-tuned for mass-production condition
- Guaranteeing transparency of PCR sources through 3rd party certification(UL ECV, TUV)

Mechanical Recycle

Control of PCR Source

Past Version

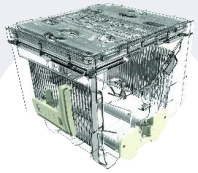
Water Bottle

CD/DVD

Very High and Low
(MFR 3~70)
Molecular Weight Source

→ **Broad Dispersion + Unstable Quality between Lots**

Today Version



Wafer Tray

Sheet

Auto Headlamp

Proper (MFR 15~25)
Molecular Weight Source

→ **Narrow Dispersion + Stable Quality between Lots**

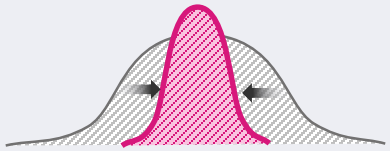
Enhanced Quality Control

Inspections for Virgin source 2

- Melt Flow Rate
- Color (Yellow Index)

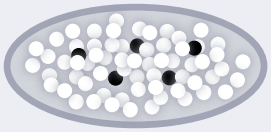
\+

Additional Inspections for PCR source 4



- Izod Impact Strength
- HDT*

*Heat Deflection Temperature



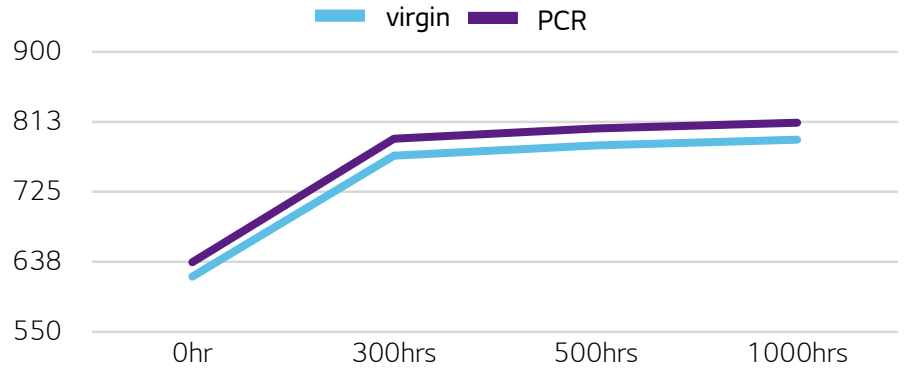
- Foreign Material
- Halogen/Heavy metal

Virgin-Like Quality

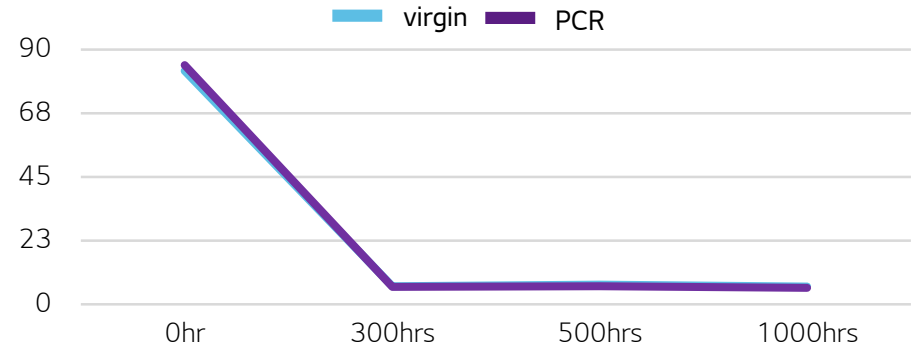
Long-Term Reliability

PCR product shows similar tendency as virgin product for long-term reliability test (120℃, 1,000 hrs)

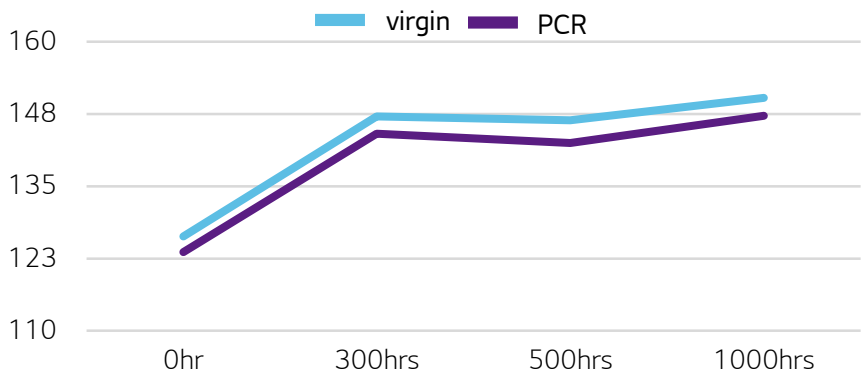
Tensile strength (kgf/cm2)



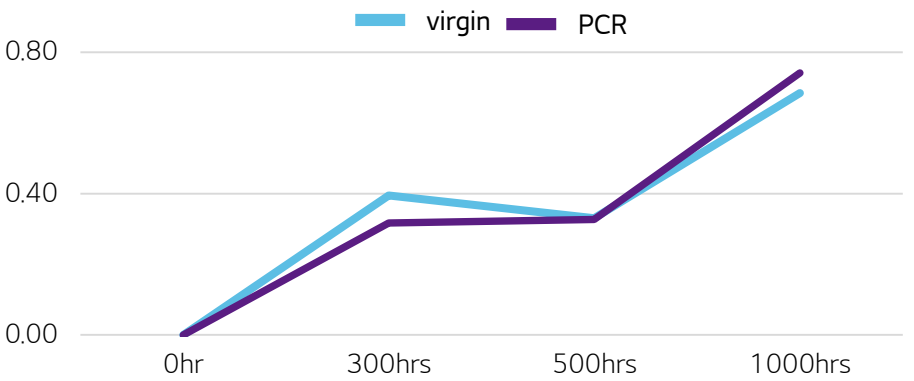
Izod Impact 1/8" (kgf.cm/cm)



HDT (18.6kg)



Discoloration (Delta B)



Mechanical Recycle

LG Chem provides a new color solution experience through advanced coloring technology with rapid and accurate color development.

Color Development

Black Grey White Transparent

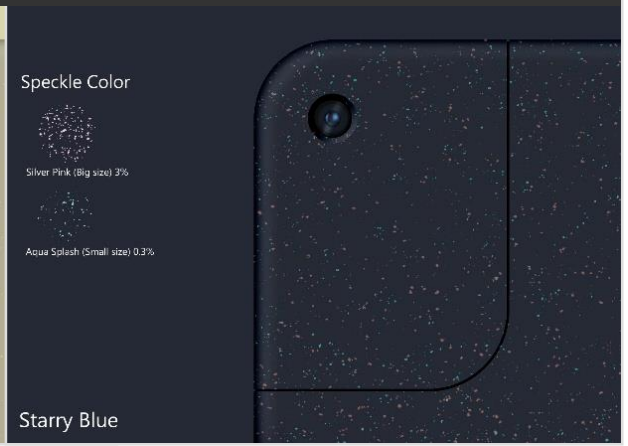
| Speed | Average of 5.6 days for color development

| Accuracy | Less than 7% of re-coloring until approval

Special color

All Color

Speckle Pattern



Application Examples

E&E, IT




Auto

Others


Application	Notebook	AI Speaker	Set Top Box	Adaptor	Interior Parts	Trim Parts	AVN* Audio Video Navigation	Mobile Phone Case	Metering	Bus Shelter
Grade	LUPOY ER2403FT	LUPOY ER5001RFZ	LUPOY ER1000Y	LUPOY ER1006FNA	LUPOY ER5006N/ 6NC/7N	LUPOY ER5100N, 5200A, 5300A	LUPOY ER1000MU	LUPOY ER1004A	LUPOY ER2101F	LUPOY ER1000MH
Description	PCR 30% GF40% V-0 @ 0.8 mm	PCR 60%, V-0 @ 1.2 mm	PCR 90%, IR Transmission	PCR 50%, V-0 @ 0.8 mm	PCR 50%, Painting	PCR 30 ~ 50%, GF 10 ~ 30% Reinforced	PCR 50%	PCR 50%, Impact Modified	PCR 60%, GF 10% V-0 @ 1.2 mm	PCR 60%, Transparent, Extrusion

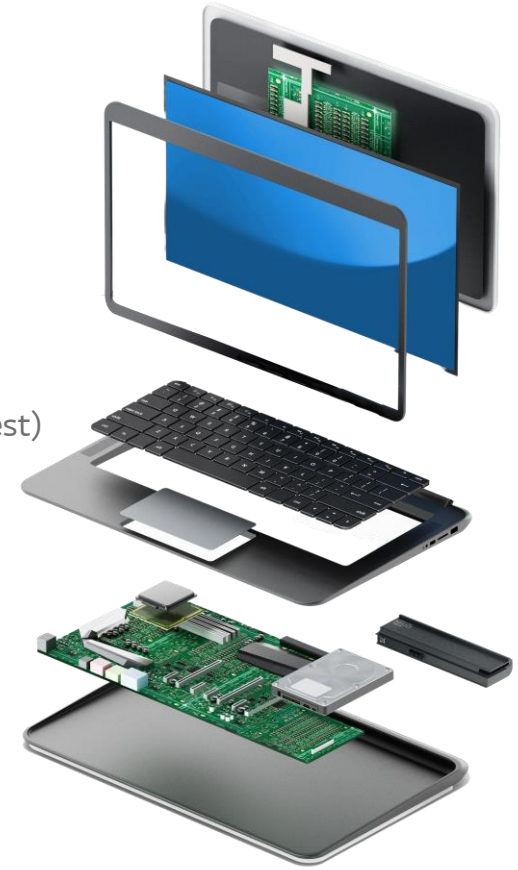
Applicable Parts in Laptop

1 A-cover

2 B-cover (Bezel)

3 C-cover (Palm Rest)

4 D-cover



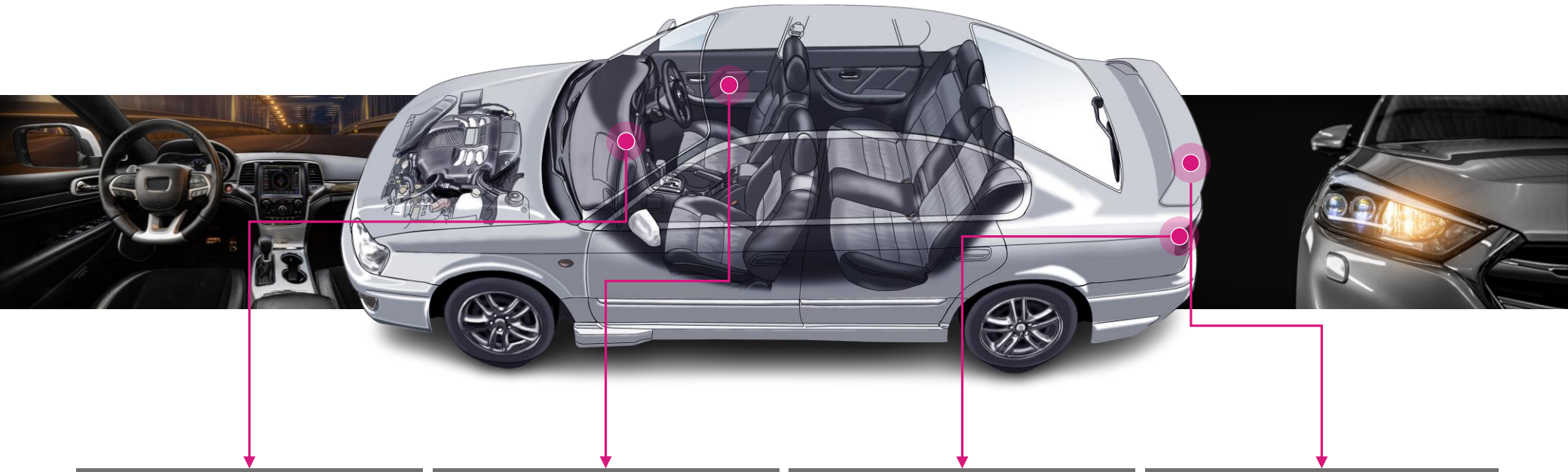
5 Battery Case

6 Adapter

7 D-cover

Calssification		Grade	PCR Contents(%)	Description
1	Current	GN2403FT	0	FR PC GF 40% V-0 @ 0.8mm
		ER2403FT	30	
	New	**ER2403FN**	**45**	
2	Current	GN5101RF	0	FR PC/ABS MF5%, V-0 @ 0.75mm
	New	**ER5101RFN**	**50**	
3	Current	GN5254FW	0	FR PC/ABS MF25% V-0 @ 1.0mm
		ER5254F	30	
	New	**ER5254FW**	**35**	FR PC MF25% V-0 @ 1.2mm
		ER5254FN	**50**	
4	Current	GN5151RFA	0	FR PC/ABS MF15%, V-0 @ 1.2mm
		ER5151RFL	30	
	New	**ER5151RFN**	**50**	
	OBP	**ER5151RFO**	**PCR45+OBP5**	
5	Current	GN1008RF	0	FR PC, V-0 @ 0.6mm
		ER1008RF	30	
	New	**ER1008RFN**	**50**	
		ER1007FX	**85**	FR PC, V-0 @ 0.8mm
6	Current	ER1006FD	30	FR PC, V-0 @ 1.0mm
	New	**ER1006FNA**	**50**	
		ER1006FY	**90**	
7	Current	-	0	MABS
	New	**ER1000Z**	**75**	Transparent PC

Applicable Parts in Automotive



Interior - Cockpit

- **Cluster, I/P Dash board, C/Fascia**
  1) LYER5006N(PC/ABS, PCR 50%)
  2) LYER5006NC(PC/ABS, PCR 50%)
  3) LYER5007N(PC/ABS, PCR 50%)
- **Audio Video Navigation (AVN)**
  1) LYER1000MU(PC, PCR 50%, Transparent)
  2) LYER5008BFH(FR PC/ABS, PCR 50%, V-0 @ 1.5 mm)
  3) LYER2201F(FR PC-GF20, PCR 30%, V-0 @ 1.5 mm)

Electronics

- **Trim**
  1) LYER5100N(PC/ABS-GF10, PCR 50%)
  2) LYER5200A(PC/ABS-GF20, PCR 30%)
  3) LYER5300A(PC/ABS-GF30, PCR 30%)

Lamp Module

- **Lamp Bezel**
  1) LYER1000L(PC, PCR 50%, General)
  2) LYER1000LS(PC, PCR 50%, High Flow)
- **Rear Lamp Housing**
  1) LYER5007N(PC/ABS, PCR 50%, High Heat Resistance)
- **Guide Bracket**
  1) LMER5300K(PBT/PET/ASA-GF30, OBP10%)

Exterior(Potential)

- **Trunk Lead Garnish**
  1) LYER5000L(PC/ABS, PCR 50%, High Flow)
- **Roof System**
  1) LDER4403A(PA6-GF15/MF25, OBP 30%)
- **Front Trunk**
  1) LDER4203A(PA6-GF7/MF13, OBP 40%)

PCR Portfolio - PC

		Recycled Type	Virgin Type	Description	Application
Non-Reinforced PC Comp.	Non-FR	ER1000D/MA	GP1000M	PCR 50%, Transparent	• Transparent Sheet • Phone Case • Keycap • Remote Controller • Settopbox
		ER1000MH	-	PCR 60%, Transparent, Extrusion	
		ER1000ML	-	PCR 50%, High Flow, Transparent V1 @3.0mm	
		ER1000Z	GP1000L	PCR 75%, Transparent	
		ER1000Y	-	PCR 90%, Transparent	
		ER1004A/N	SC1004A	PCR 30%/50%, IM[1)]	
	FR	ER1006FH/FD/FN	EF1006F	PCR 20%/30%/50%, V0 @ 1.0 mm, RTI 125 ℃	• Charger • Outdoor CCTV • IoT Devise • Battery Case • Tablet B/Cover
		ER1006FZ/FX/FY		PCR 75%/85%/90%, V0 @ 1.0 mm, RTI 125 ℃	
		ER1006FU		PCR 50%, V0 @ 1.5 mm, F1(Weatherability)	
		ER1007FA/FZ	SF1007F	PCR 30%/60%, High Flow, IM, V0 @ 0.8 mm	
		ER1008RF/RFN	GN1008RF	PCR 35%/50%, IM, V0 @ 0.6 mm	
Reinforced PC Comp.	Non-FR	ER2102N	GP2102	GF 9% + PCR 50%	• Action Camera • Tablet Bezel • Laptop Cover
	FR	ER2101F	-	GF 10% + PCR 60%, V0 @ 1.5mm	
		ER2103FN	-	GF 10% + PCR 55%, V0 @ 0.8 mm	
		ER2109FD	GN2109FD	GF 10% + PCR 50%, V0 @ 1.5 mm	
		ER2201F	GN2201FM	GF 20% + PCR 30%, V0 @ 1.5 mm	
		ER2203FN	-	GF 20% + PCR 50%, V0 @ 0.8 mm	
		ER2253F	GN2253F	GF 25% + PCR 30%, V0 @ 0.8 mm	
		ER2303F	-	GF 30% + PCR 30%, V0 @ 0.8 mm	
		ER2403FT	GN2403FT	GF 40% + PCR 30%, V0 @ 0.8 mm	
		ER2503FT	GN2503FT	GF 50% + PCR 30%, V0 @ 0.8 mm	

1) Impact Modified

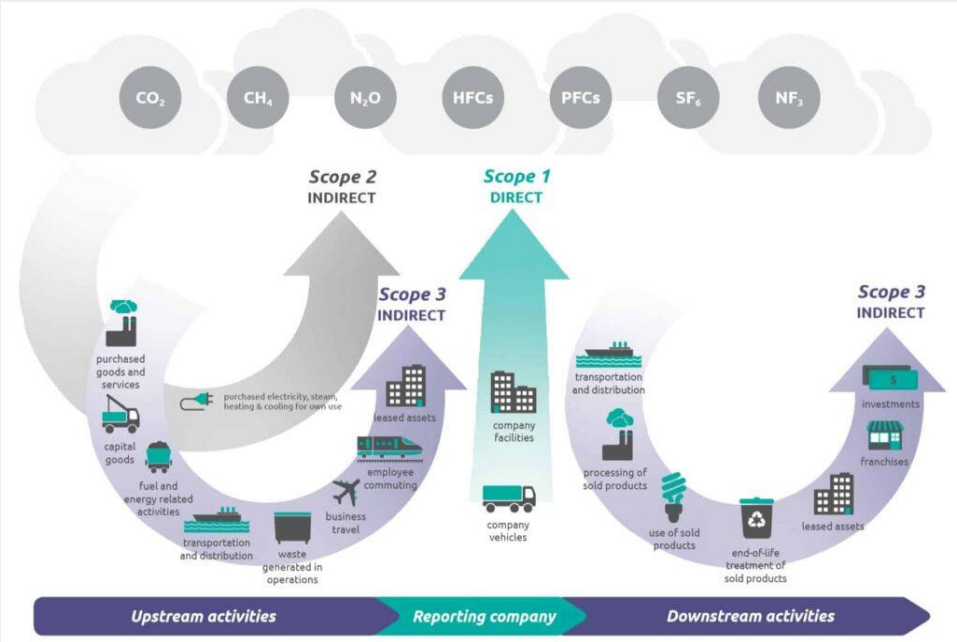
PCR Portfolio – PC/ABS, PC/ASA, OBP

		Recycled Type	Virgin Type	Description	Application
Non-Reinforced PC/ABS Comp.	Non-FR	ER5002N	HI5002A	PCR 50%, Low Heat	• Auto Interior/Exterior • Accessory
		ER5006N	HR5006A	PCR 50%, Medium Heat	
		ER5006NC	HR5007A	PCR 50%, Medium high Heat	
		ER5007N	HR5007AC	PCR 50%, High Heat	
	FR	ER5000SFC	GN5000SFC	PCR 30% V0 @1.5mm, High Flow	• IoT Device • Laptop Bezel • E&E Housing • Office Appliance
		ER5001RF	GN5001RF	PCR 30%, V0 @ 1.5 mm, RTI 180 ℃	
		ER5001RFK		PCR 30%, V0 @ 1.2 mm	
		ER5001RFZ		PCR 60%, V0 @ 1.2 mm	
Non-Reinforced PC/ASA Comp.	FR	ER5001RFA	GN5001RFA	PCR 30%, V0 @ 1.2 mm	
		ER5001RFH	GN5001RFH	PCR 60%, V0 @ 1.5 mm, RTI 80 ℃	
		ER5000FS	EU5000FS	PCR 50%, V0 @1.5mm, F1	
Reinforced PC/ABS Comp.	Non-FR	ER5100N	GP5100	GF 10% + PCR 50%	• Auto Interior
		ER5200A	GP5200	GF 20% + PCR 30%	
		ER5300A	GP5300	GF 30% + PCR 30%	
	FR	ER5101RFN	-	MF 5% + PCR 50%, V0 @ 0.75 mm	• IoT Device • Laptop Bezel • Laptop Cover • E&E Housing
		ER5151RFL	GN5151RFA	MF 15% + PCR 30%, V0 @ 1.2 mm	
		ER5151RFN		MF 15% + PCR 50%, V0 @ 1.2 mm	
		ER5254FW	GN5254FW	MF 25% + PCR 30%, V0 @ 1.0 mm	
		ER5254FN		MF 25% + PCR 35%, V0 @ 1.2 mm	
Ocean Bound Plastic	FR	ER5101RFO	-	MF 5% + PCR 45% + OBP 5%, V0 @ 0.8 mm	
		ER5151RFO	GN5151RFA	MF 15% + PCR 45% + OBP 5%, V0 @ 1.2 mm	

Life Cycle Assessment(LCA)

LG Chem provides LCA report to calculate reduction of carbon footprint when using LG Chem's sustainable materials

Scope 1 2 3



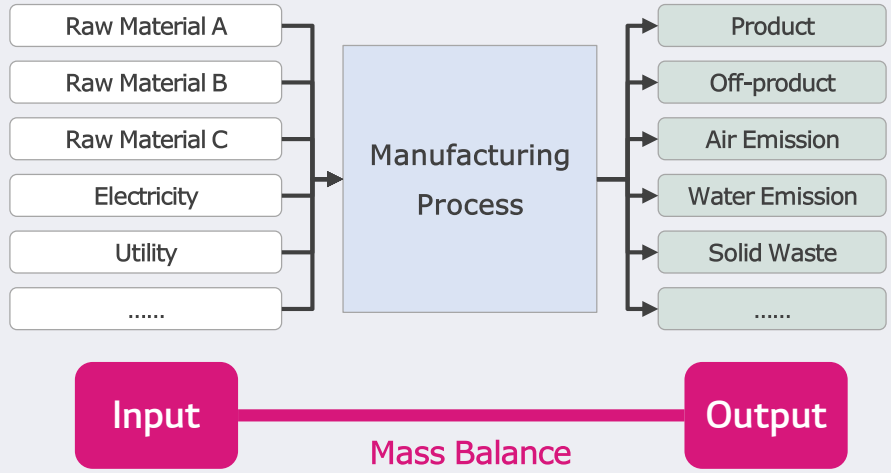
Scope 1 • Fuel combustion on site, fleet vehicles and air conditioning

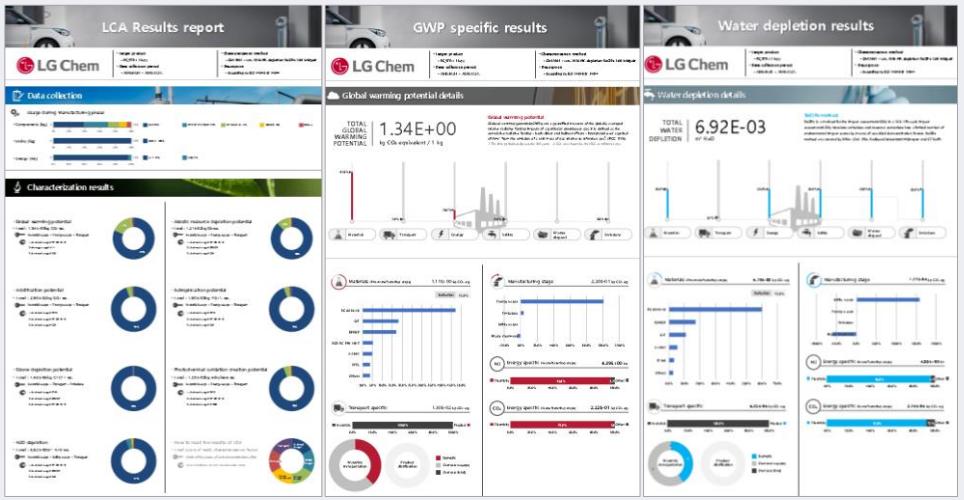
Scope 2 • Emission from energy during production, used by office

Scope 3 • All other indirect emissions from activities of the organization

Source : GHG Protocol

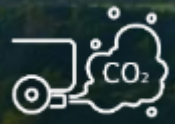
LCA





Environmental Benefit

PCR PC 50%
PC/ABS



CO_2 Emission

-40%

Water Consumption

-30%

Cumulative Energy Demand

-30%

LCA Report (PCR vs Virgin)

LETZer PCR PC/ABS LG Chem

LCA Results report

- Target product
  - LUPOY ER5007N (1 kg)
- Data collection period
  - 2020.01.01 ~ 2020.12.31.
- Standard
  - According to ISO 14040 & 14044

Life Cycle Assessment Results

Impat Category	Unit	Quantities
Climate Change	kg CO2 eq.	1.90E+00
Acidification	kg SO2 eq.	1.13E-02
Ozone depletion	kg CFC11 eq.	2.94E-07
H2O depletion	m3 H2O eq.	2.38E-02
Eutrophication	kg PO43- eq.	1.46E-03
Photochemical oxidation creation	kg ethylene eq.	7.97E-04
Abiotic Resource depletion	kg Sb eq.	1.68E-02

Life Cycle Assessment Background Information

1. Functional Unit

To produce 1kg of polycarbonate (PC) based compound, in Korea, in the year of 2020

2. System Boundary

Cradle to Gate (excluding environmental burden of the first cycle of recycled materials)

3. Characterization Method

CML 2001 (Climate Change, Acidification, Ozone depletion, Eutrophication, Photochemical oxidation creation, Abiotic Resource depletion)
ReCipe 1.08 Midpoint (Water depletion)

4. Data Source

- Upstream: On-site data were collected for recycled materials, secondary data being utilized for the other materials.
- Manufacturing: On-site data were collected.
- Downstream: Not applicable

5. Data quality and Sensitivity

6. Allocation

Since raw materials, utilities, energy consumptions, and wastes in the process are not separately managed between the product and by-products, an allocation according to the production weight ratio was considered. As for a by-product which reuses internally, it was considered as a close loop.

LETZer Virgin PC/ABS LG Chem

LCA Results report

- Target product
  - LUPOY HR5007AC (1 kg)
- Data collection period
  - 2020.01.01 ~ 2020.12.31.
- Standard
  - According to ISO 14040 & 14044

Life Cycle Assessment Results

Impat Category	Unit	Quantities
Climate Change	kg CO2 eq.	3.60E+00
Acidification	kg SO2 eq.	2.43E-02
Ozone depletion	kg CFC11 eq.	8.91E-07
H2O depletion	m3 H2O eq.	4.05E-02
Eutrophication	kg PO43- eq.	3.54E-03
Photochemical oxidation creation	kg ethylene eq.	1.03E-03
Abiotic Resource depletion	kg Sb eq.	3.49E-02

Life Cycle Assessment Background Information

1. Functional Unit

To produce 1kg of polycarbonate (PC) based compound, in Korea, in the year of 2020

2. System Boundary

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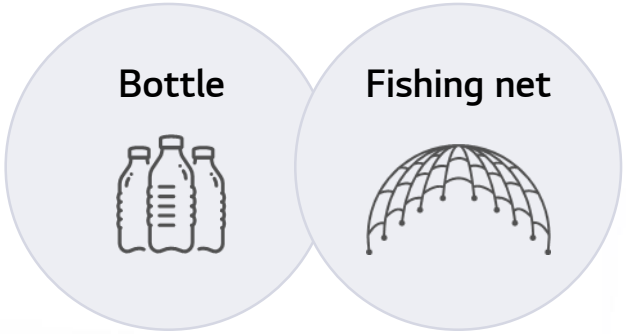
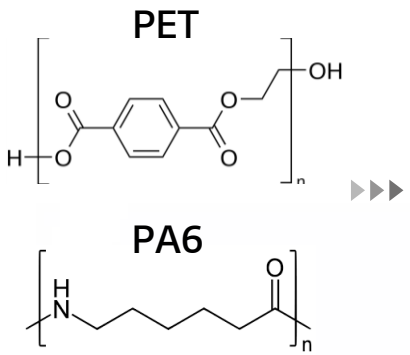
Ocean Bound Plastic(OBP)

Ocean bound plastics like water bottle and fishing net are transformed to a valuable sources



Source



Polymer

Compound Product

Certification

UL 2809

Control Union

2022 Milestone

PC/ABS/PET	May	Mass Production	Oct	UL 2809[1)]	Dec	Control Union[2)]
PA6-GF	May	Mass Production	Oct	UL 2809	Dec	Control Union

1) Environmental Claim Validation Procedure (ECVP) for Recycled Content evaluates the amount of recycled content used in products, which include ocean-bound plastics.

2) Certification of the amount of OBP you have prevented supports your environmental claims and ESG certifications and rating.

Ocean Bound Plastic(PET)

LUPOY ER5151RFO(PC/ABS/PET-MF15)

Test Class		Test Method	Test Condition	Unit	LUPOY GN5151RFA (Virgin)	LUPOY ER5151RFN (PCR 50%)	LUPOY ER5151RFO (PCR 45% + OBP 5%)
Flow/Physical	Melt Index	ASTM D792	g/10min	250℃/2.16Kg	10	9	6
	Spiral (Temp. : 270℃ / 60℃)	LG Method	cm	Thick. 1.5 mm	30	29	28
	Mold Shrinkage	ASTM D955	%	3.2 mm	0.2-0.4	0.2-0.4	0.2-0.4
Mechanical	Tensile Strength at Yield	ASTM D638	Kg/cm2	50mm/min	690	680	690
	Flexural Strength, 3.2mm	ASTM D790	Kg/cm2	10mm/min	1,100	1,000	1,100
	Flexural Modulus, 3.2mm				43,000	43,000	42,000
	Izod Impact Strength	ASTM D256	Kg•cm/cm	23℃ @3.2T	6.0	7.0	7.3
Thermal	HDT	ASTM D648	℃	18.6kgf	91	91	88
	Flammability	UL 94		@ 1.2mm	V-0	V-0	V-0

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.
Values given should not be interpreted as specification and not be used for part or tool design.

Ocean Bound Plastic(PA6)

PA6-GF 30 ~ 50%

Test Class		Test Method	Unit	Test Condition	GF 30%		GF 40%		GF 50%	
					Virgin	OBP	Virgin	OBP	Virgin	OBP
Flow/Physical	Specific gravity	ISO 1183	-	-	1.35	1.36	1.45	1.46	1.57	1.57
	Mold Shrinkage 2.0mm	ISO 294	1/1000	Transverse	5.45	5.53	5.34	5.50	5.15	5.12
				Parallel	2.00	1.92	1.54	2.14	2.58	1.93
Mechanical	Tensile Strength	ISO 527	MPa	5 mm/min	185	170	210	195	245	215
	Tensile Elongation		%		3.5	3.2	3.0	2.9	2.7	2.7
	Flexural Strength	ISO 178	MPa	2 mm/min	270	260	330	300	375	335
	Flexural Modulus		MPa		8200	8200	11400	11300	15000	15000
	Charpy Impact Strength	ISO 179/1eA	kJ/m2	Notched, 23℃	13.0	10.5	19.0	14.0	22.0	16.0
		ISO 179/1eA	kJ/m2	Unnotched, 23℃	88	75	95	90	N.B	89
Thermal	Heat Deflection Temp	ISO 75	℃	1.80 MPa	211	206	215	211	217	214

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.
Values given should not be interpreted as specification and not be used for part or tool design.

Chemical Recycle

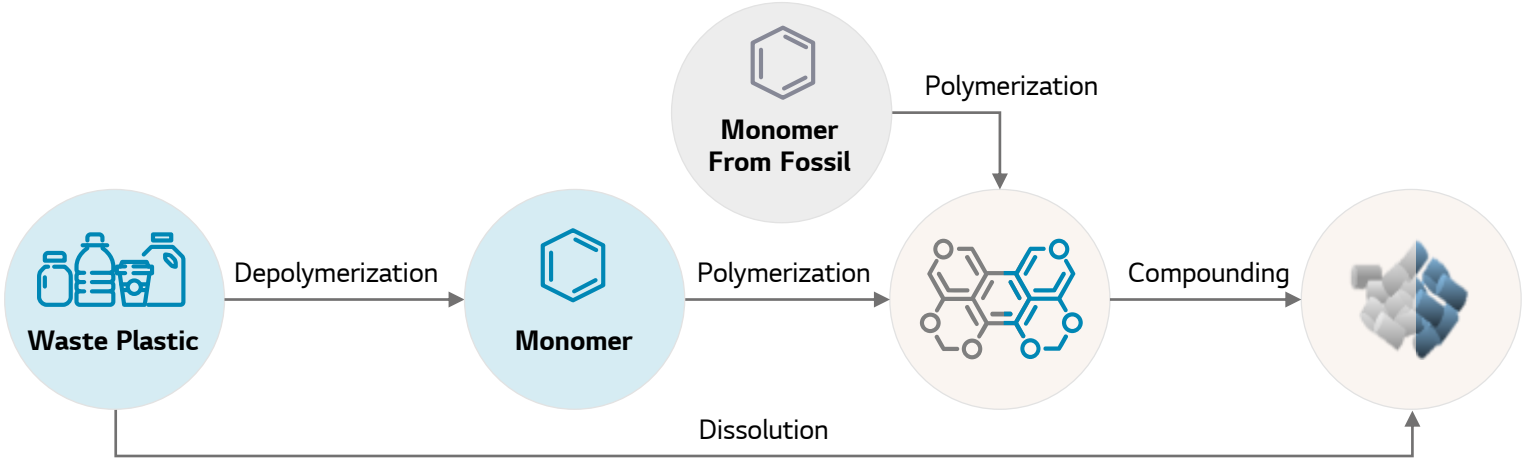
It is an upcycle process which aims to convert heavily contaminated plastic waste into its monomer stage(pre-cursor) through depolymerization/dissolution technology

Source

Waste PET

Waste PC

Technical Description



Milestone

*Timeline may change during development

	Jun. 2021	Dec. 2022	Dec. 2023	Dec. 2024	Dec. 2026
PC (Dissolution)	Pilot Construction	Sample Release	Mass Production		
PC (Depolymerization)	Pilot Construction	Sample Release			Mass Production
PBT/TPEE	Pilot Scale-up	Feasibility Test	Mass Production		

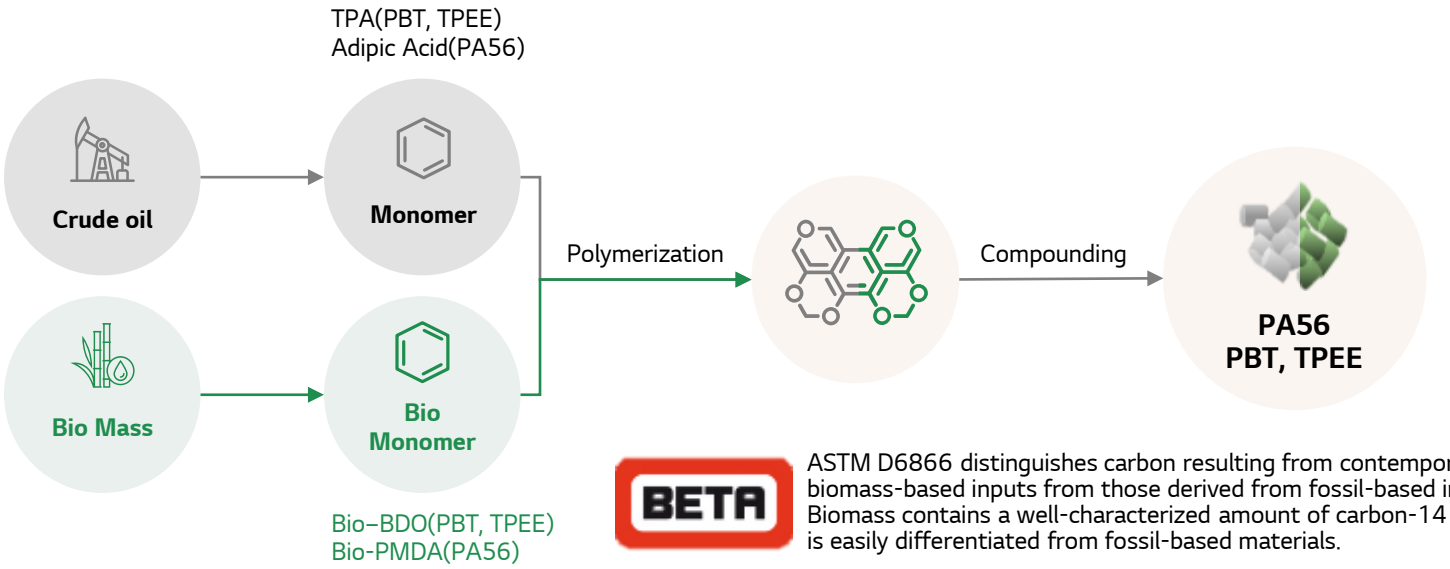
Bio-Based

Main benefits of bio-based product is that it is an option for phasing out from fossil fuel, it can be used as a good marketing tool.
Also since the production is starting from the monomer stage, after polymerization it is considered as virgin like quality.

Source

Sugarcane	Corn
	

Technical Description



BETA

ASTM D6866 distinguishes carbon resulting from contemporary biomass-based inputs from those derived from fossil-based inputs. Biomass contains a well-characterized amount of carbon-14 that is easily differentiated from fossil-based materials.

Milestone

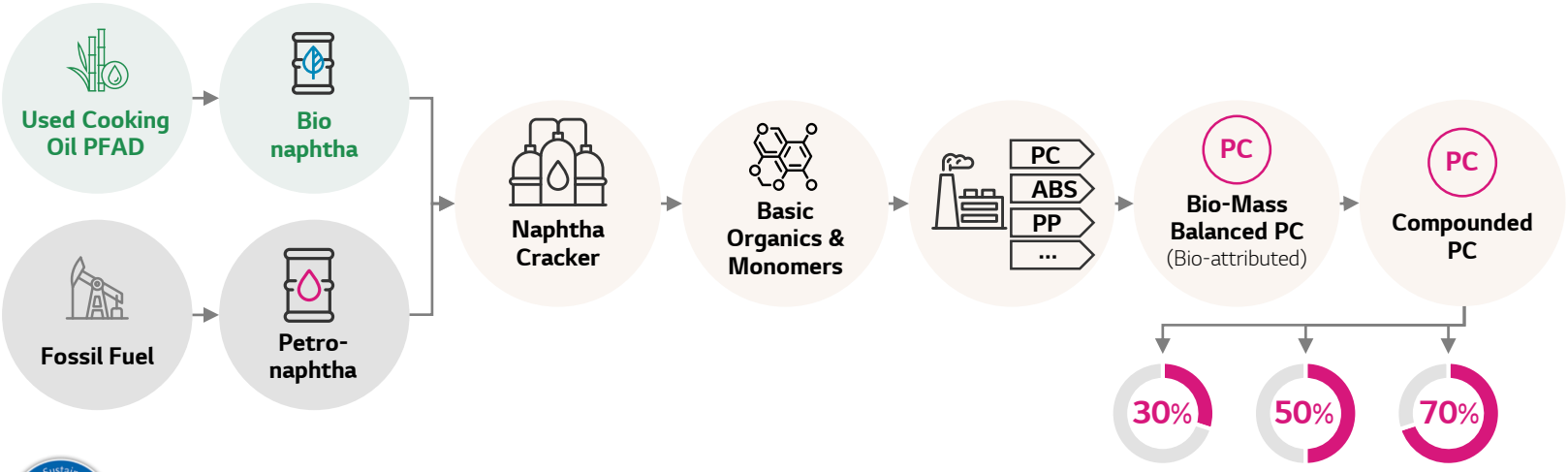
*Timeline may change during development

	Jan. 2022	Dec. 2024
PBT/TPEE	Feasibility Test	Bio-BDO Production (In-house)
PA56	Mass Production	

Bio-Mass Balanced

Main benefit of bio-mass balanced are it can reach virgin like quality since we are using same production process same as the existing petrochemical production. Also for polycarbonate there is no other bio option than bio-mass balanced so it is a good alternative option

Technical Description



Mass Balance & Free Attribution Rule

Certification

ISCC(International Sustainability & Carbon Certification) is a globally applicable sustainability certification system and covers all sustainable feedstocks, including agricurtural and forestry biomass, circular and bio-based materials and renewables.

"All relevant elements of the supply chain must obtain a certification in order to handle sustainable materials."

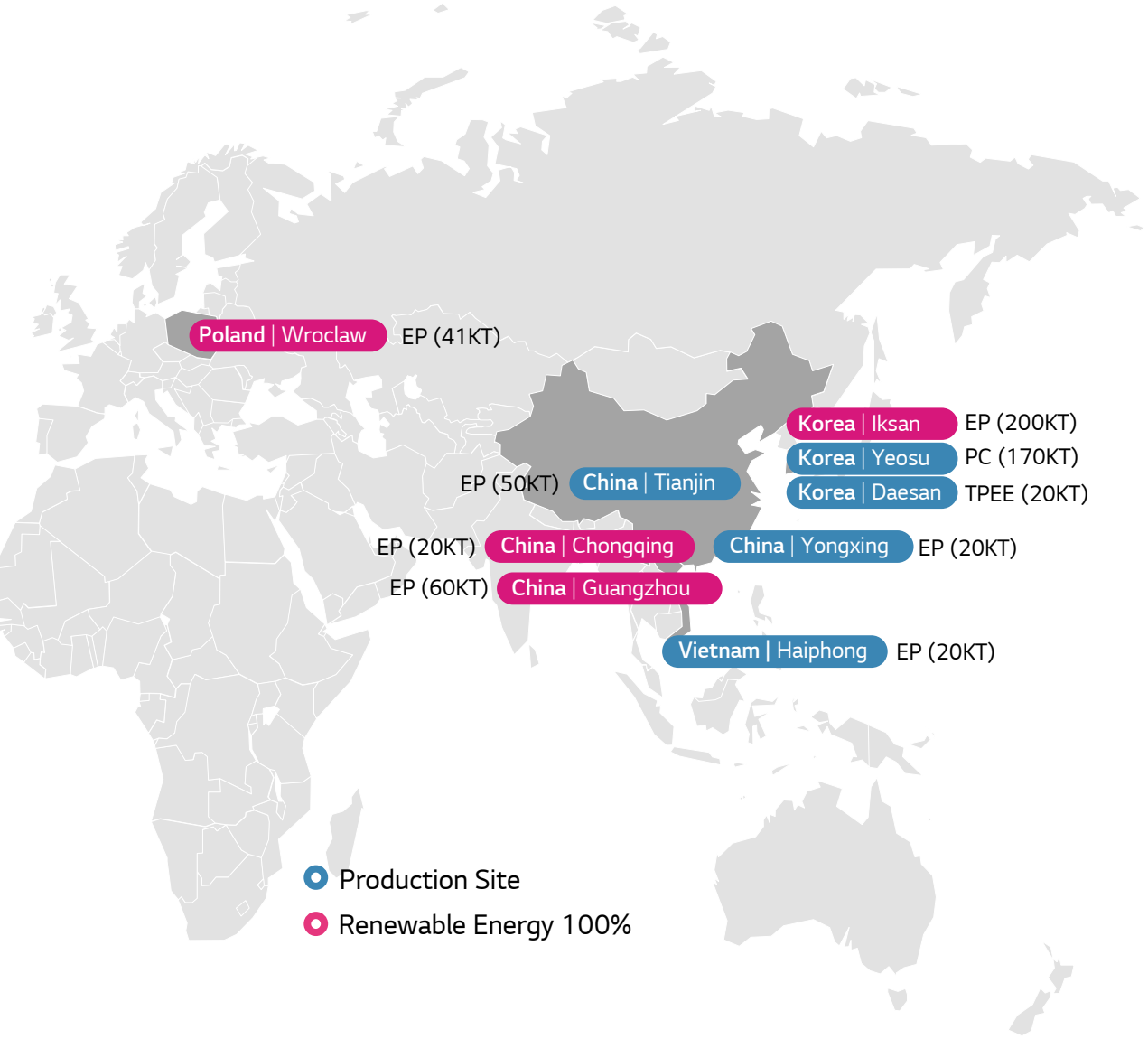
Milestone

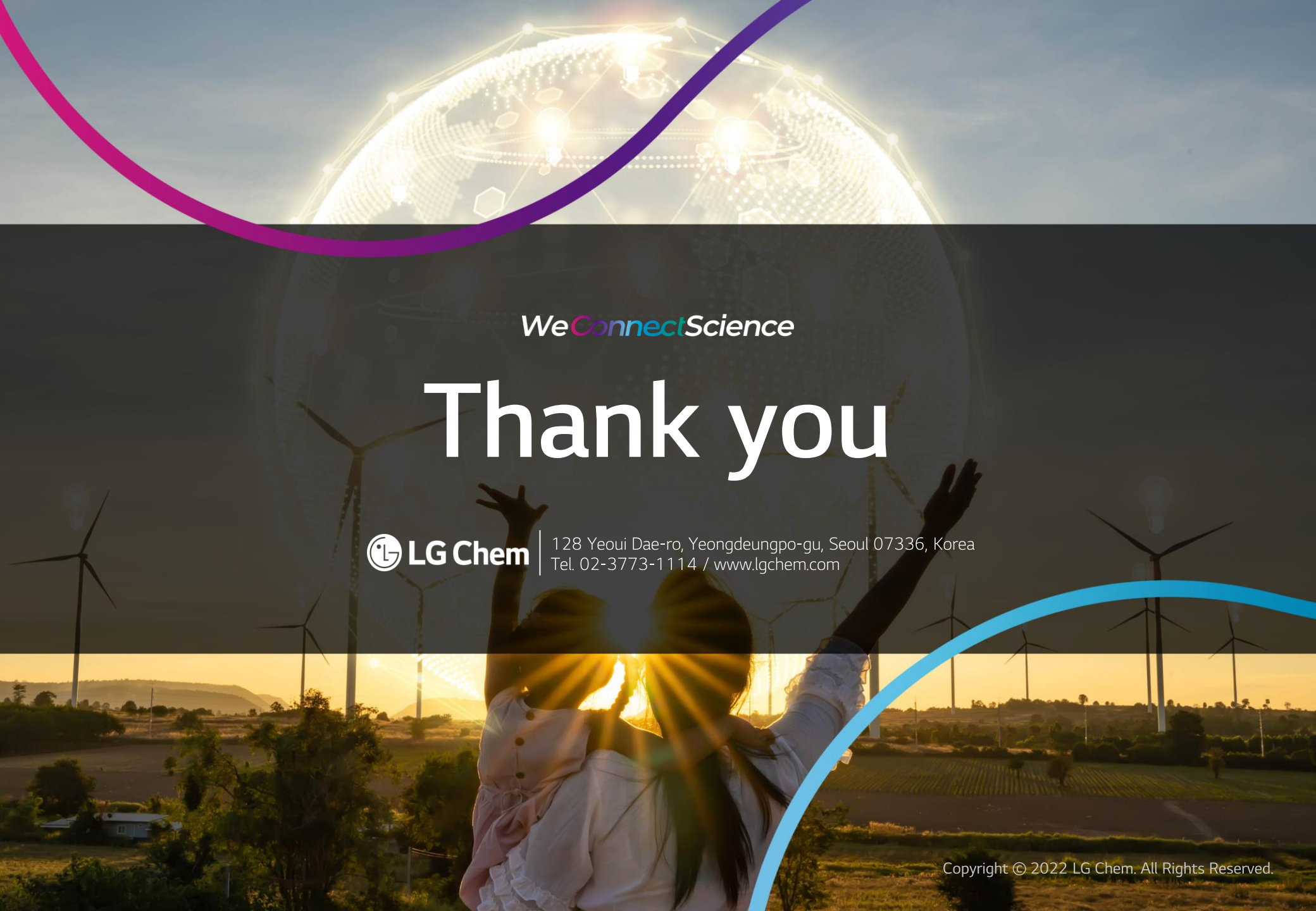
*Timeline may change during development

1) International Sustainability and Carbon Certification

Global Location

LG Chem can globally supply equal quality of PCR products to customers






Q&A