



2023 IRPC Net Zero Transition Plan

JANUARY 17 , 2023

Corporate Governance and Sustainability Committee Meeting 1/2023

IRPC Route to Net Zero

ความมุ่งมั่นและตั้งใจของไออาร์พีซี
เพื่อความมุ่งสู่องค์กรก๊าซเรือนกระจกเป็นศูนย์ ภายในปี 2060

ECO-OPERATION & Technology

Energy efficiency

การปรับปรุงประสิทธิภาพ
การผลิต

Renewables

เชื้อเพลิงทดแทนและ
พลังงานหมุนเวียน

irpc
FUTURE IS
NET ZERO
2060

RESHAPE PORTFOLIO

ปรับโมเดลธุรกิจเป็น Green Business

Circular economy

การนำหลักเศรษฐกิจ
หมุนเวียนมาประยุกต์ใช้

Green Product

ผลิตภัณฑ์ใหม่เพื่อสิ่ง
แวดล้อมและชีวิตที่ดีขึ้น

Waste Management

การบริหารจัดการของเสีย
จากการผลิตอย่างเป็นระบบ

ABSORPTION AND OFFSET

กิจกรรมชดเชยการปล่อยก๊าซเรือน
กระจก

Carbon Capture , Utilization and Storage (CCUS)

ศึกษาเทคโนโลยีการดักจับ
และการกักเก็บคาร์บอน

Community Engagement & Forestation

การมีส่วนร่วมกับสังคมและชุมชน

O₂

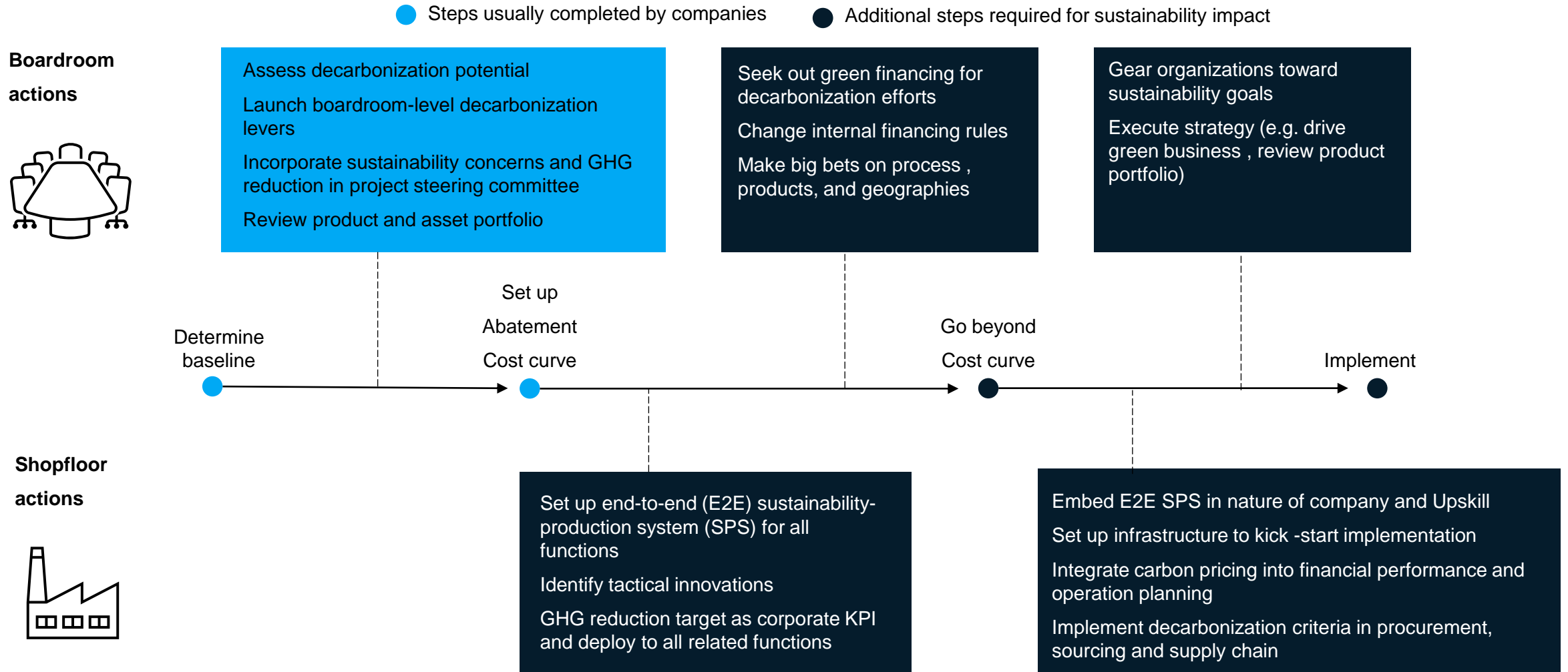
CO₂

Given these major levers, and potential solutions

	Major levers	GHG reduction potential ¹	Potential solutions
Eco-Operation & Technology (Net Zero Lab)	Energy efficiency	~10%	<ul style="list-style-type: none"> Advanced analytics (AA) to further optimize set points and APC Extensive capability development and change management program to reach EII top quartile and zero routine flaring target
	Blue / Green H2	~20%	<ul style="list-style-type: none"> Liaise with government to support low carbon initiatives Partnership with PTTEP for CCU Partnership with GPSC / EGAT for RES
	CCUS	~30%	<ul style="list-style-type: none"> Partner with PTTEP to secure CCS capacity and gain economies of scale in capture technology acquisition
	Renewables	~20%	<ul style="list-style-type: none"> Switching operations to renewable energy and alternative fuels: divest coal to NG, solar power, biofuels Seek out opportunity in solar / wind business Partnership with GPSC / EGAT,
Reshape portfolios	New stream product & Circular economy	~10%	<ul style="list-style-type: none"> Portfolio adjustment : Increase new-stream 70% by 2030 including Hygiene & Life Science, Advanced Material, Sustainable Business Circular economy target
Absorption and offset	Forestation	~10%	<ul style="list-style-type: none"> The creation of stakeholder engagement and social impact through community forest development

1. Reduction potential against the baseline

Reaching net-zero emissions requires work both in boardrooms and on shopfloors



Focus on 2023 : Set up policies and people engagement

Activities

Key enablers	Potential action	Action By
Policy and structure	<ul style="list-style-type: none"> Launch boardroom-level decarbonization levers Incorporate sustainability concerns and GHG reduction in project steering committee Seek out green financing for decarbonization efforts and change internal financing rules Gear organizations toward sustainability goals and execute strategy 	<ul style="list-style-type: none"> SD Corporate planning SD, Finance Corporate planning
People	<ul style="list-style-type: none"> Upskill and Training Change management program Communication programs Leader and role model 	<ul style="list-style-type: none"> HR SD, HR COCA Top management
Process	<ul style="list-style-type: none"> Set up infrastructure to kick-start implementation, also net-zero lab Integrate carbon pricing into financial performance and operation planning Implement decarbonization criteria in procurement, sourcing and supply chain 	<ul style="list-style-type: none"> SD BD, TE, Envi Procurement, Supply chain
System and data tracking	<ul style="list-style-type: none"> Set up end-to-end (E2E) sustainability-production system (SPS) for all functions Set up GHG reduction target as corporate KPI and deploy to all related functions Set up carbon tracking and accounting system 	<ul style="list-style-type: none"> SD, TE, OPS, Envi Corporate planning IT, AC, Envi

2023 Key Deliverables

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- ☐ GHG emission reduction 0.04 MtCO₂
 - ☐ Launch boardroom-level decarbonization levers
 - ☐ GHG reduction in project steering committee
 - ☐ Change internal financing rule
 - ☐ Implement decarbonization criteria in procurement, sourcing and supply chain
 - ☐ Set up end-to-end (E2E) sustainability-production system (SPS) for all functions
 - ☐ Set up GHG reduction target as corporate KPI and deploy to all related functions
 - ☐ Change management program
 - ☐ EII initiatives in 2023 target to GHG reduction