



World class practices in sustainability

Chaya Chandavasu, Ph.D.

Executive Vice President, Sustainability
PTT Global Chemical Public Company Limited





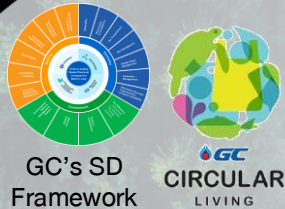
integrates sustainability into our business operation

A journey that create values

Value Creation 2020–Now

Integration 2018–2019

Disclosure 2012–2017



ESG Leadership

1 Member of
Dow Jones Sustainability Indices
No. **1** Powered by the S&P Global CSA
For 4 consecutive years in chemical sector (2019-2022)

Business Planning

CDP **A-Level** Climate & Water
Only 1 Chemical company in Thailand
Standard Implementation >>> Scenario Testing >>> Biz Decisions Making

Sustainable Supply chain

PLATINUM 2023 **ecovadis** Sustainability Rating
Top 1% Globally
The highest-level Platinum award

- o Labor & H0uman Rights
- o Ethics
- o Sustainable Procurement
- o Environment



Our ESG & Materiality Management

Global Trends & Signposts



- Standards **ISSB** S1 S2 **ISO**
- Global risks & SDGs
- Climate regulations **WORLD ECONOMIC FORUM**
- Crisis / wars
- Others

Stakeholders

- Investor
- Customer
- Supplier
- Public Sector
- Community
- Employee



Technologies & Ecosystem

- Efficiency
- RE
- CCUS
- H2
- Others



Materiality Assessment

- Understand the context
- Identify business impacts
- Assess the significant of the impacts
- Prioritize the most significant impacts

The most important material topics

GC Material Topics	Impact Score
E - Climate Strategy and Energy Management	High (Red)
G - Governance and Compliance	High (Red)
G - Risk and Crisis Management	Medium (Yellow)
G - Innovation Management	Medium (Yellow)
E - Circular Economy	Medium (Yellow)
S - Occupational Health and Safety	Medium (Yellow)
S - Contribution to Society	Medium (Yellow)



Governance

- Integrated GRC

Risk Management

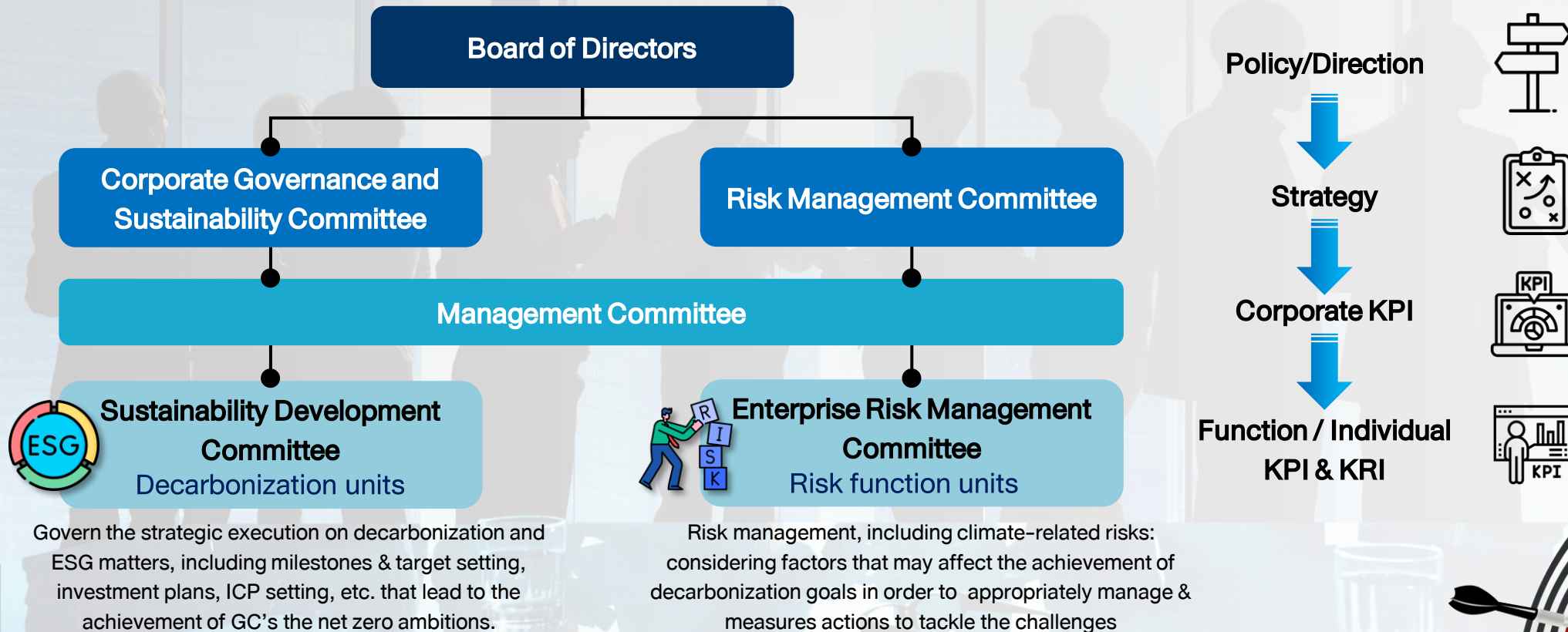
- Enterprise risk mgmt
- TCFD & scenario planning
- Emerging risk monitoring

Strategy Integration

- Step change
- Step out
- Step up



GC's ESG & Climate Governance



Govern the strategic execution on decarbonization and ESG matters, including milestones & target setting, investment plans, ICP setting, etc. that lead to the achievement of GC's the net zero ambitions.

Risk management, including climate-related risks: considering factors that may affect the achievement of decarbonization goals in order to appropriately manage & measures actions to tackle the challenges



World class practices in sustainability

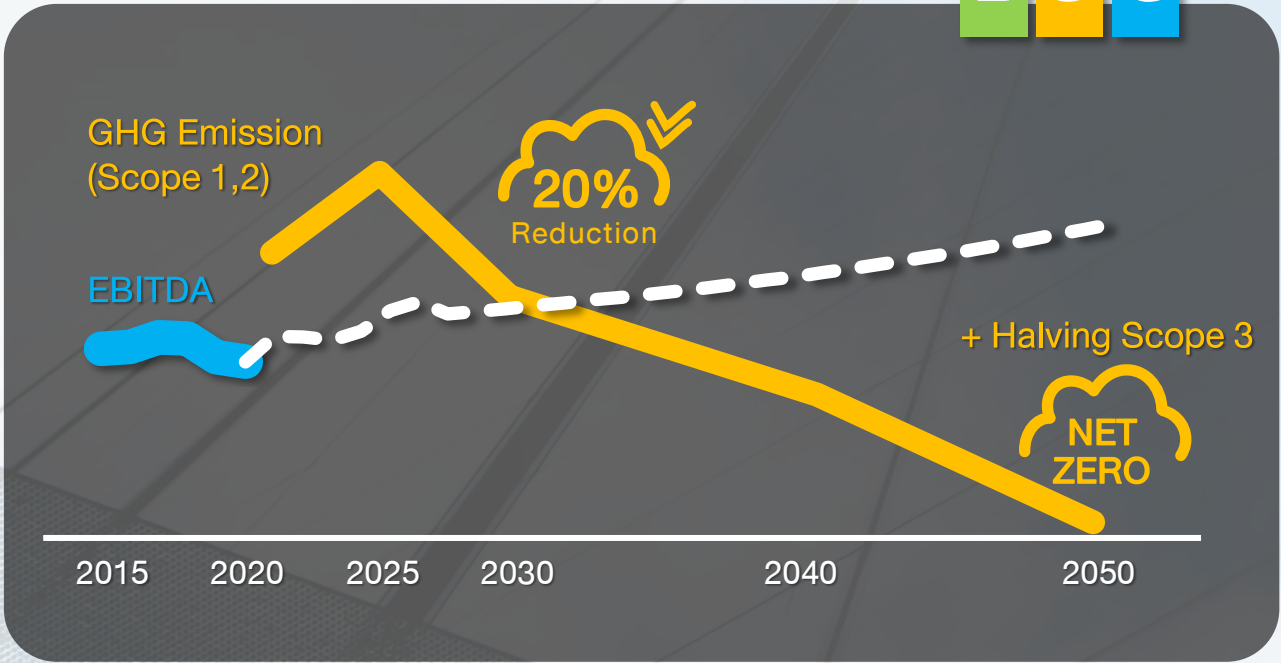
Chaya Chandavas, Ph.D.

Executive Vice President, Sustainability
PTT Global Chemical Public Company Limited



GC's Sustainable Growth Pathway

Sustainable growth + net zero



Efficiency-driven



Portfolio-driven

Compensation-driven



20%

GHG Reduction: 5⁺⁺ Billion USD

Efficiency-driven

Reduce assets' emission and adapt new technology



1,000,000⁺ tCO₂e

Energy & efficiency improvement



100%

Clean energy utilization



New Low Carbon Tech

(Hydrogen, electrification, etc.)



55%

Compensation-driven

Employ Technology- and Nature-based Solutions



6,300,000⁺ tCO₂e

CCS + collaboration with partners

○ 1,200,000 tCO₂ (before 2030)



1,000,000 tCO₂e

Carbon credit management

- Nature-based solutions
- Tech-based solutions
- Carbon credit purchase



25%

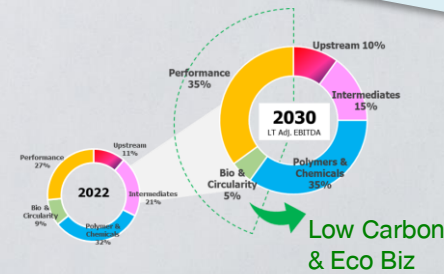
Growth: 22⁺⁺ Billion USD

Portfolio-driven

Enhance quality of earning
Offer low carbon & eco solutions

3,300,000 tCO₂e

Portfolio adjustment



Circularity Solutions

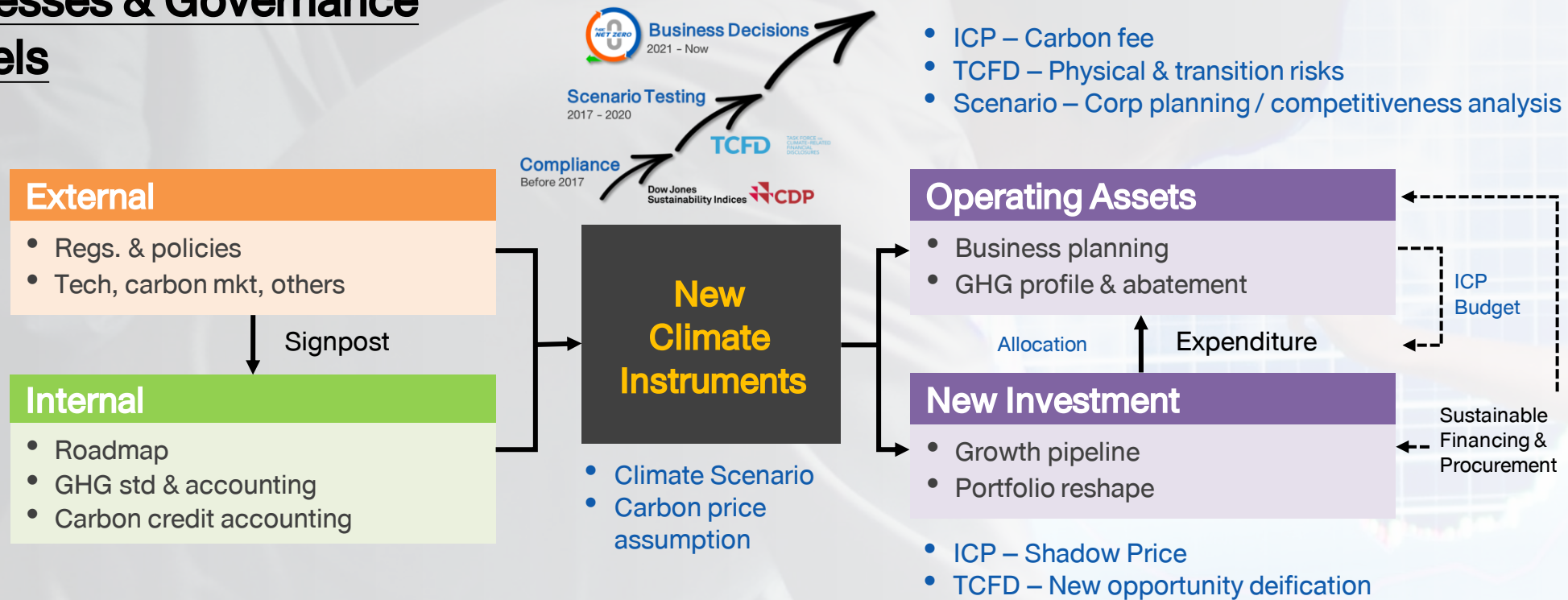


BS 8001:2017 Certified

Climate & Carbon Mechanisms

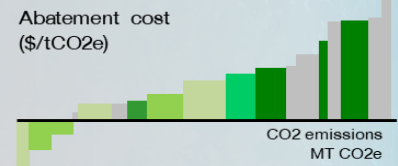
for business planning & decision making

Processes & Governance Models



Key Challenges & Signposts Mgmt

External factors: Multiple uncertainties



- Tech readiness & cost
- Standards
-
- New opportunities
- Mkt readiness / customer willingness to pay

- Business restructuring
- Growth pipeline
- Asset performance

Internal factors:



Potential Implication on



- GHG profile / target
- Risk exposure
- Business assumptions
- Initiative pipeline
- Resources needed

Governance & Mgmt

