

A faint, semi-transparent background image of a world map in blue and white.

Climate Change

กลุ่มบริษัท พีทีที โกลบอล เคมิคอล จำกัด

**Booncherd Suwantip
4 Apr. 2017**

เติบโตอย่างยั่งยืน ด้วยยุทธศาสตร์ 3 ปัจจัย

BIG
เติบโตทัดเทียม
องค์กรขั้นนำ



GROWTH

- ขยายการลงทุนในประเทศ ที่มีความได้เปรียบด้าน ตลาดและวัตถุดิบ
- บุกเบิกตลาดและผลิตภัณฑ์ ใหม่ ด้วยนวัตกรรม

Double size
PetChem revenue
~ 30 B\$ in 2024

STRONG
สร้างผลตอบแทนที่มั่นคง
ให้ความเชื่อมั่นต่อนักลงทุน



SUSTAIN CORE

- รักษาความสามารถ ทางการแข่งขัน ให้ธุรกิจปัจจุบัน

1st Quartile
Return on Invested
Capital (ROIC)
14% in 2024

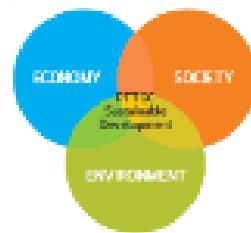
LONG
ดำเนินธุรกิจอย่างยั่งยืน



SUSTAINABILITY

- สร้างความสมดุลระหว่างธุรกิจ สังคม ชุมชน และสิ่งแวดล้อม (2E 1S)
- ต่อยอดสุ่มความยั่งยืน ด้วยการ ขยายผลออกสู่การร่วมพัฒนาคู่ ธุรกิจตลอด สายโซ่อุปทาน

เป็นผู้นำในธุรกิจเคมีภัณฑ์ เพื่อสร้างสรรค์คุณภาพชีวิต



Listed in DJSI Top 10%

End

COP 21

GHG Intensity Commitment

Envi. DJSI & CDP
Leader Sector

Waste Water Recycle
>40 %

PTT Group Raw water
Supply Security

Way

Environmental Sustainability (Climate)

(1) Drive and Ensure effective Climate Change Strategy to achieve COP 21 for DJSI & CDP

- Advise the long range goal and plans to meet COP21 National Commitment

(2) Implement Product Stewardship to balance minimum Envi. impact and business

Develop and maintain Life Cycle Management (LCM)

- Product Footprint calculation (Carbon & Water)
- Product Life Cycle Assessment (LCAs)
- Product Life Cycle Cost (LCC)
- Product Eco design

(3) Consult and drive Operational Eco Efficiency report

- Advise for improve the eco-efficiency e.g. Water & Energy used ,Water recycle, GHG reduction projects etc.

License to operate & Business Growth

(1) Develop EIA /EHIA for new projects , plant modifications and EIA Monitoring

- Develop new or revise EIA/EHIA report
- Proceed for approval with ONEP & IEAT
- Troubleshoot EIA Monitoring report

(2) Track, participate national SHE Related legal requirements and advise compliance in PTTGC

- Participate in external taskforces e.g. PTIT, FTI, PCD, DIW
- Convince governmental authorities
- Alert PTTGC concern parties in advance

(3) Be a good Citizen in Map Ta Phut Eco Industrial Town

- Certified Eco-Factory, Green Industry
- Participate IEAT Eco-Symbiosis

Proactive Environmental Management (PEM)

(1) Build PEM

- Establish Green Culture of 3Rs Reduce, Reuse and Recycle
- Environmental Performance Benchmarking
- Build PEM Expertise in PTTGC
- Best Practice & Knowledge Sharing

(2) Ensure PTTGC raw water supply security

- Drive to implement internal Water Ascertainment projects e.g. WWRO, SWRO
- Drive to implement external Water Ascertainment projects with Rayong War room

(3) Ensure effective VOC Management

- MTP VOC Responsible Collaboration
- VOC Emission from Tank, Waste Water Treatment , T/A, Loading = 0

Resources / System Support

People – Coach, Supervise and Convince

- Be the Subject Matter Expert of Emerging Issues in PTTGC and PTT group
- Convince GPC & BU to drive and support Environment Sustainability strategy
- Coach Local Envi. Engineer and Process Engineer to calculate GHG and Eco Efficiency

Performance – Drive Long Range Plan

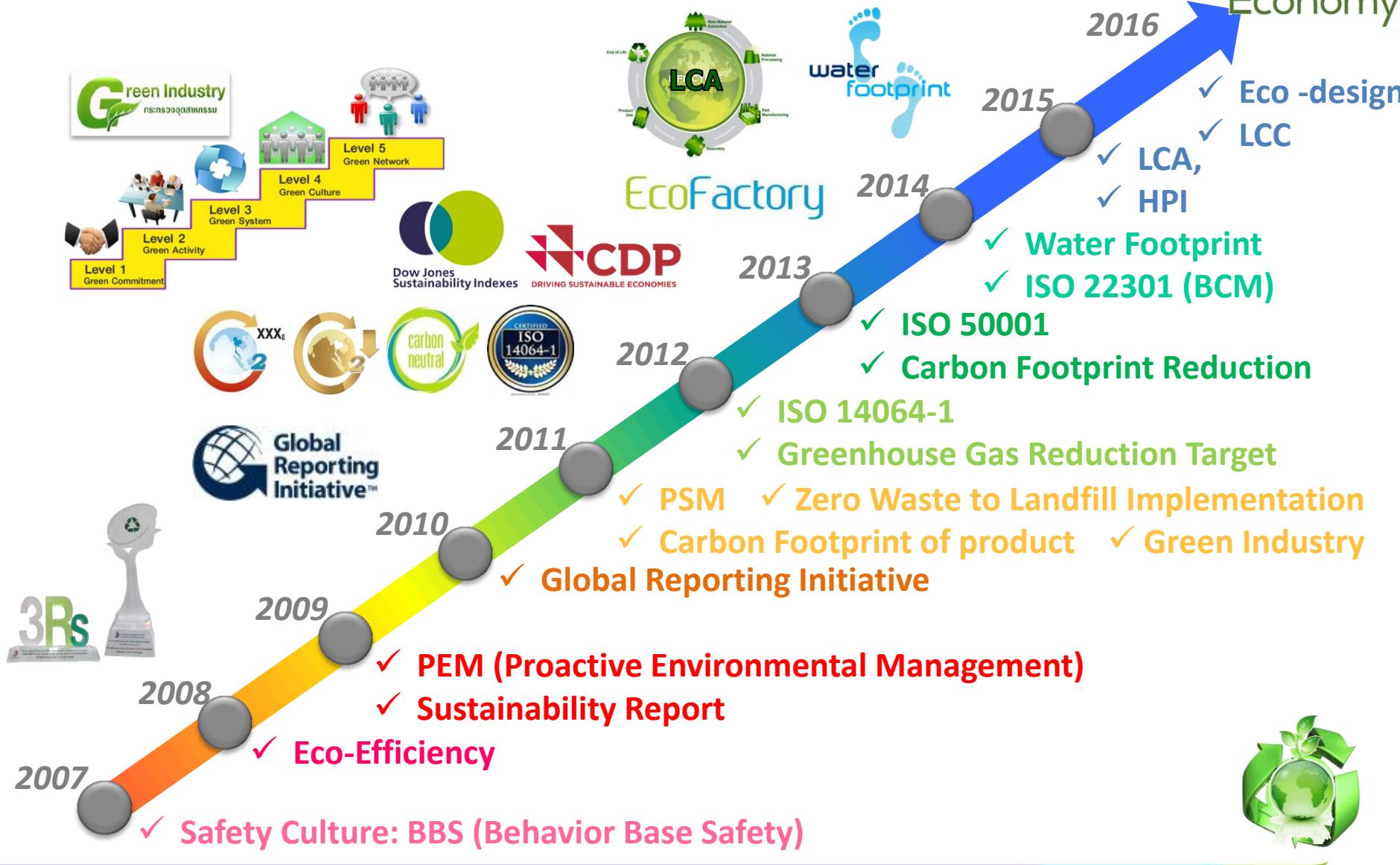
- Climate Change COP 21 Strategy
 - GHG Intensity reduction 52% in 2050
 - GHG reduction 10% from BAUs in 2022
 - Scope 3 target : Waste to landfill, Water Reduction
- Water Ascertainment
 - Waste Water Recycle >40%
 - Zero unplanned Raw Water Shortage

Process – Develop & Maintain System support

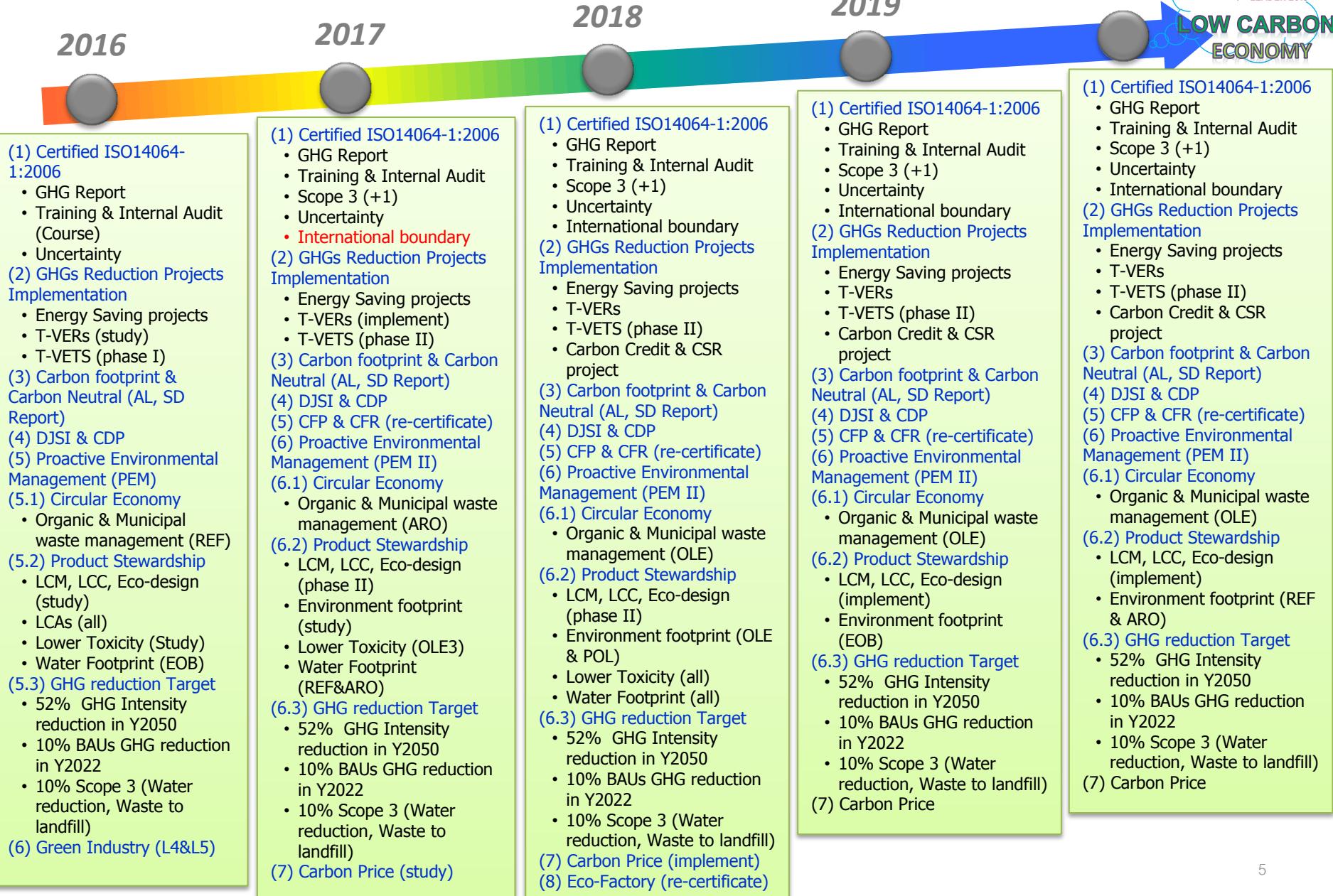
- Be the MR for ISO 14064-1 (Quantification and Reporting GHG)
- ISO 14062 (Product Eco design)
- ISO 14044 (Life Cycle Assessment)
- ISO 14045 (Eco-Efficiency)
- Eco Factory, GI

Mean

การพัฒนาโครงการกลยุทธ์การจัดการสิ่งแวดล้อมเชิงรุก Proactive Environmental Management (PEM)



5Y-Climate Strategy Long Range Plan



Objectives

- Reduce the rate of Global Warming, stay within a 2° deg C temperature incremental band and CO₂e concentration in air < 450 ppm by the end of the year 2100
- Support Thai Government who committed to the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP21)
- Gain DJSI & CDP (Carbon Disclosure Project) climate change survey awards points
- Prevent the worst of Climate Change

Basic Concept

- The Sectoral Decarbonization Approach (SDA) is a scientifically-informed method
- GHG intensity (GHG Emission per Production) of the sectors, based on scenario assumptions about each sector's average structure

Time Frame

- PTTGC established the long-term strategy on climate change using Science Based Target to mitigate GHG intensity reduction of 52% by 2050 from the base year of 2012
 - Energy Conservation, Cleaner Fuel, Better Combustion Efficiency, Lower emission technology, Reduce Carbon Footprint

Greenhouse Gas Intensity (COP21)

PTTGC Greenhouse Gas Intensity (COP21) Target & Performance

"PTTGC established the long-term strategy on climate change using Science Based Target to mitigate GHG intensity reduction of 52% by 2050 from the base year of 2012."

