



Conclusion of BCG Economy Model



Thailand's Perspective

The 60th Meeting of the APEC Expert Group on Energy Efficiency & Conservation (EGEEC 60) and Associated Workshops

15 - 17 March 2023

Presented by :

Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, Thailand

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✤ National Energy Plan (NEP)

★ BCG Model on Energy Plan

- **1. Adjust power and heat production portfolio to low carbon way**
- 2. Adjust the energy consumption and production in transport sector to low carbon way
- 3. Increase energy efficiency
- 4. Biorefinery
- 5. Increase CO₂ absorption



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National Energy Plan (NEP)



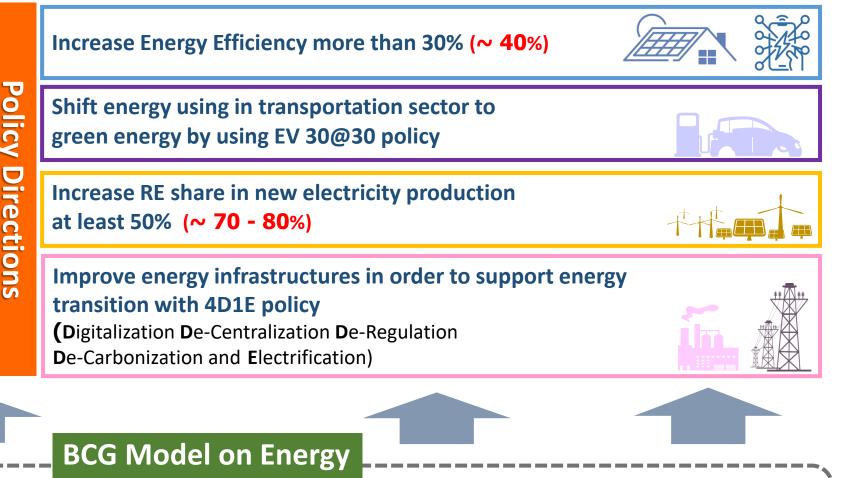
Goals

To use clean energy and to achieve Carbon Neutrality by 2050 and Net Zero Emission by 2065



To increase competition and investment capacity of Thai's stakeholders in order to adapt with low carbon economy and new innovation

To be in line with Long-Term Low greenhouse gas Emission Development Strategies (LT-LEDS)





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Higher Energy Security



Higher Income



Better Environment



BCG Model on Energy



Vision: Develop green energy according to BCG Model to achieve Carbon Neutrality by 2050



Action Plans on Green Energy

1. Adjust power and heat production portfolio to low carbon way





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transport sector to low carbon way

- 3. Increase energy efficiency
- 4. Biorefinery

Actions Plans on Carbon Sink



Remark : The results are forecasted from BCG action plans of MOEN 2021-2027



Action Plans on Green Energy



1. Adjust power and heat production portfolio to low carbon way











Project Timeframe : 24 months (2021-2023)

Expecting result : Increase RE in heat 62 ktoe

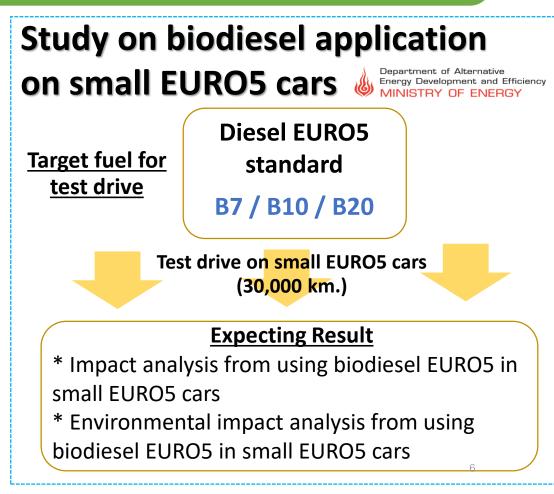
Biogas Users





2. Adjust the energy consumption and production in transport sector to low carbon way

Energy Policy OF ENERGY (Draft) EV Charging Station Development Plan Policy **Demand Response +** Scheme **Electricity incentives Standard Development for Safety** Regulatory & Installation + Approval Process Scheme **Improve + Framework for** integration various EV types Grid Development for charging Technology station + Communication Scheme Infrastructure Development for future Integration DEDE, 2023 - All rights reserved





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Action Plans on Green Energy



5.ระบบพลังงานหมุนเวียน

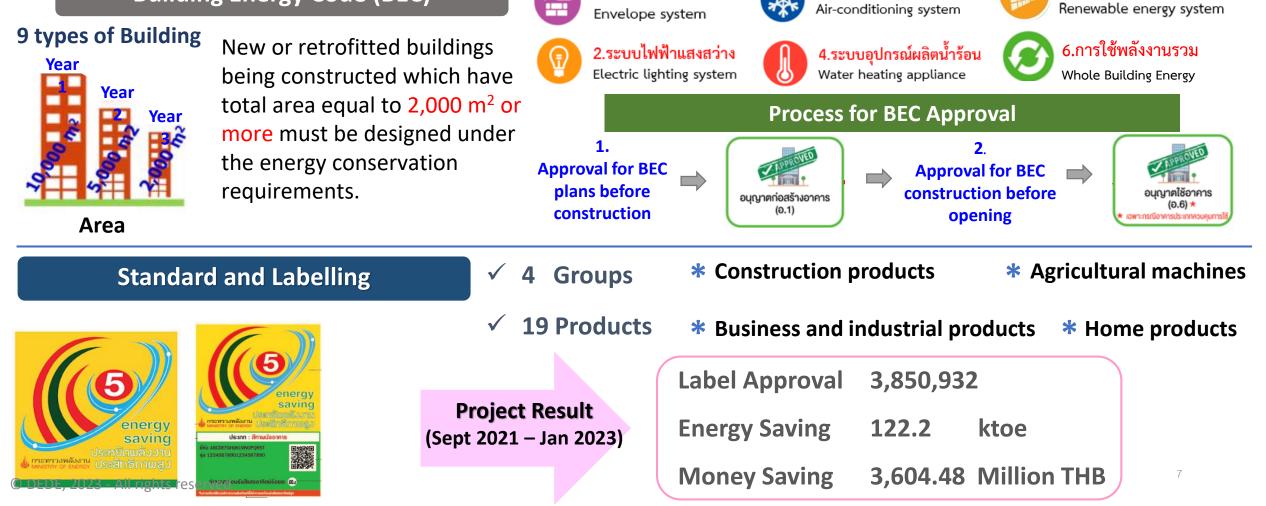
3. Increase energy efficiency

1.ระบบเปลือกอาคาร

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3.ระบบปรับอากาศ

Building Energy Code (BEC)





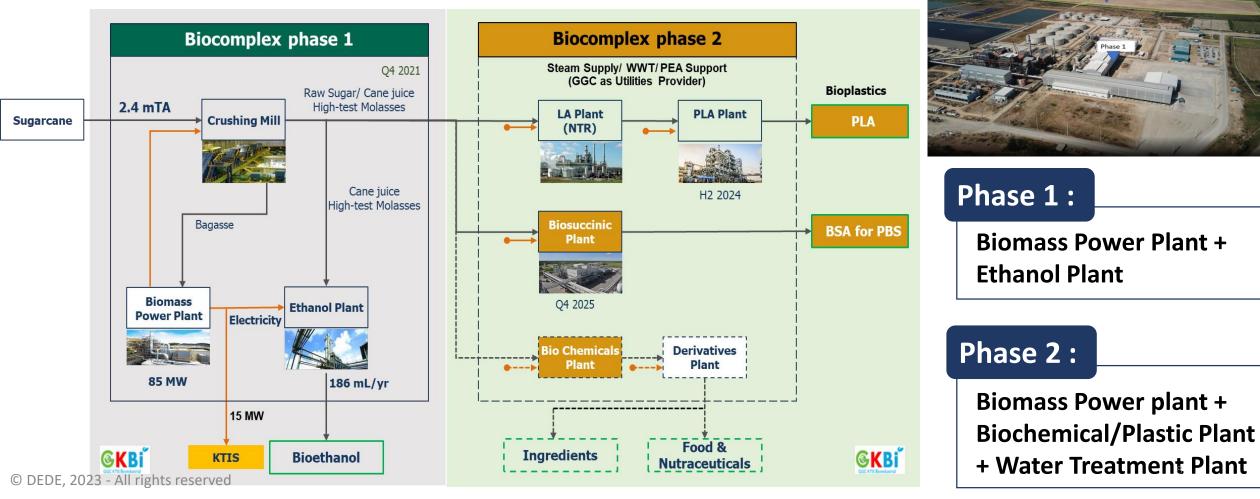
Action Plans on Green Energy



Phase 2

6GC 4. Biorefinery

Nakornsawan Biocomplex (NBC)





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Department of Mineral Fuels
MINISTRY OF ENERGY

5. Increase CO₂ absorption

Strengthened Climate Commitment in COP26

