

ENERGY
EVALUATION
ASIA PACIFIC



Energy Evaluation Asia and The Pacific (EEAP) Workshop

Country Perspectives- Thailand

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Director / Head of Climate Finance at Creagy

**3rd Indonesia Energy Efficiency and Conservation
Conference & Exhibition (IEECCE) 2021**

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CREAGY & MYSELF: AT A GLANCE

Creative + Energy = 

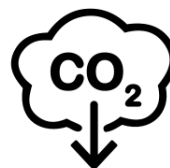
Boonrod Yaowapruek

- Evaluation Ambassador at Energy Evaluation Asia-Pacific (EEAP)
- +20 years of exp. in clean energy, climate change, and climate finance.
- Director- Climate finance at Creagy.
- Instructor - Climate Change course at Chulalongkorn School of Integrated Innovation (ScII).
- Previous experiences:
 - USAID programs– clean energy finance team lead
 - Engie – senior originator
 - Eneco Energy Trade BV– commercial carbon analyst
 - ABN AMRO Bank NV – sustainable risk advisor
 - ERM-Siam – energy & economics consultant
 - San.E.68 – environmental engineer

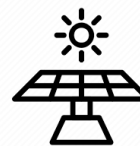
Education

- B.Eng. in Environmental Engineering, Chulalongkorn
- M.Sc in Sustainable Energy Engineering, KTH, Sweden
- Stockholm School of Entrepreneurship (SSSE), Sweden
- Chartered Financial Analyst (CFA) candidate level II

Creagy is a purpose-driven consultancy in clean energy & climate change with a mission to decarbonize energy & transport sectors; making it cleaner, cheaper & more sustainable.



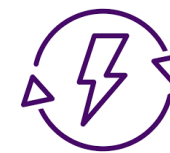
Climate Change



Clean energy



Clean Transport



Market Transition



Green Finance

We advise clients in managing risks, building resilience & identifying opportunities in climate change:

- Policy, market and incentive design
- Policy & project monitoring & evaluation
- Financial & Economics instruments design
- Project feasibility study and analysis
- Climate actions strategy development
- Transaction advisory & due diligence

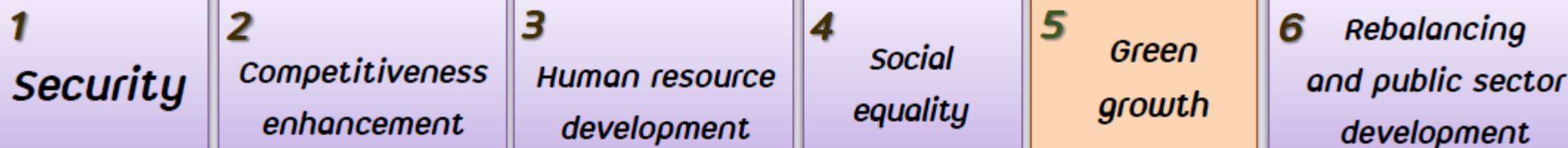


Viewpoints on the role of energy in sustainable development and in meeting the climate change mitigation

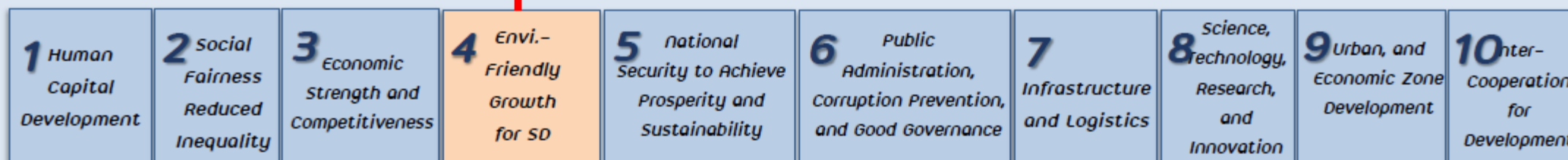
- In Thailand, the SDGs have been integrated into the 20-Year National Strategy, which is the country's main development framework.
- The National Committee for Sustainable Development (CSD), chaired by the Prime Minister, represents the central mechanism to advance all 17 Goals.
- Clean & efficient energy system development is also part of the national economic and social development plans: 1) infrastructure & logistic and 2) environmentally friendly growth for sustainable development.
- Thus, energy plays a crucial role in enhancing Thailand to meet the sustainable development goals and reduce GHG emissions to meet the NDC targets.



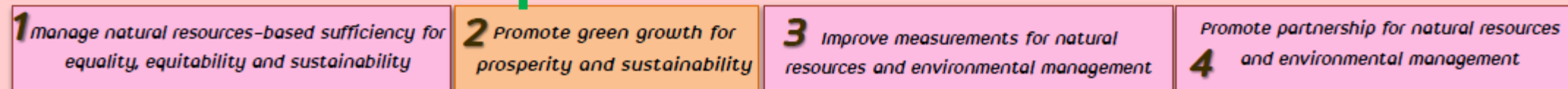
Thailand's 20-Year National Strategy



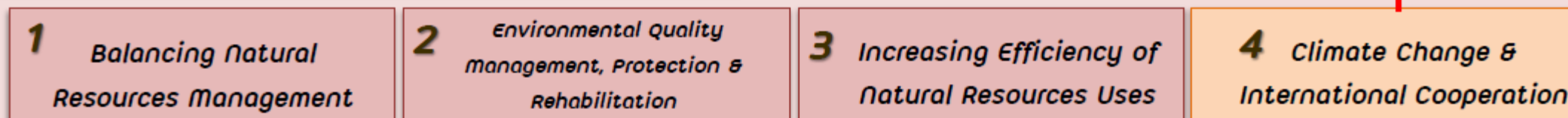
12th National Economic and Social Development Plan



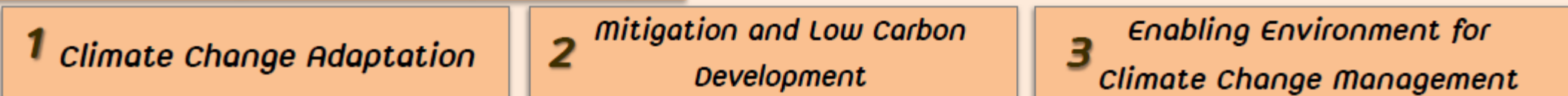
National Environmental Quality Promotion and Conservation Policy and plan (2017 – 2036)



Environmental Quality Management Plan (2017 – 2021)



Climate Change Master Plan (2015-2050)



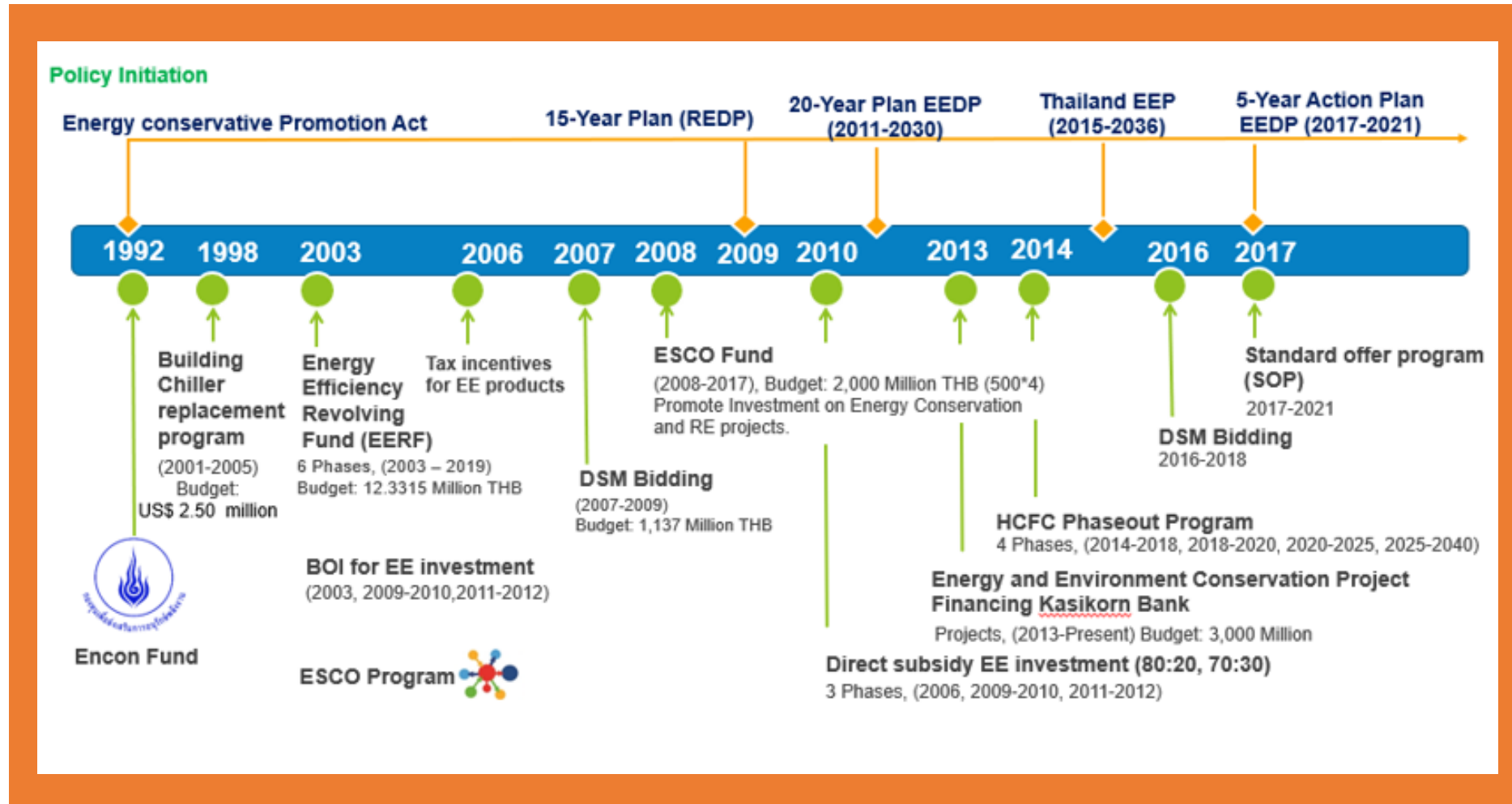
NDC Roadmap on Mitigation 2021 - 2030



Plans to Meet Mitigation Target in NDC

- Power Development Plan, 2015–2036 (PDP2015)
- Thailand Smart Grid Development Master Plan, 2015–2036
- Energy Efficiency Plan, 2015–2036 (EEP2015)
- Alternative Energy Development Plan, 2015–2036 (AEDP2015)
- Master Plan for Sustainable Transport System and Mitigation of Climate Change Impacts
- National Industrial Development Master Plan, 2012–2031
- Waste Management Master Plan (2016 – 2021)
- Environmental Quality Management Plan, 2017 – 2021 (EQMP)
- Montreal Protocol Implementation
- RAC NAMA Project

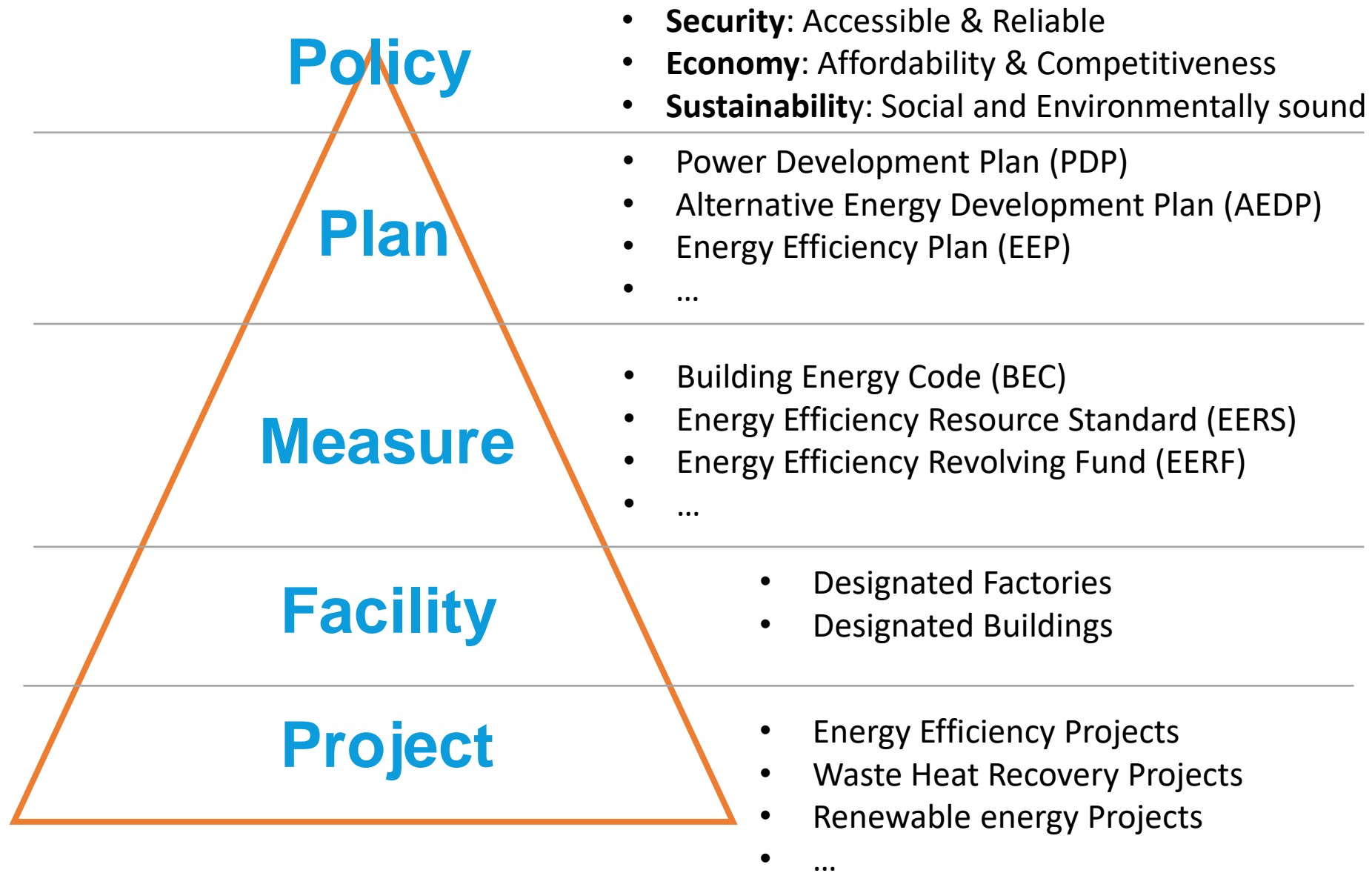
It is very important for Thailand to properly and transparently evaluating the energy policy and development programs for public accountability.



Different levels may require different evaluation approaches.

At measure & project level, they are randomly evaluated by third parties.

At facility level, energy audits are to be conducted by independent parties.



Policy Level: Thailand Energy Trilemma Index (TETI) was developed to monitor & evaluate an impact of energy policies.

Energy Policy



- แผนยุทธศาสตร์ชาติ 20 ปี
- แผนแม่บทภายใต้ยุทธศาสตร์ชาติ
- แผนปฏิรูปประเทศด้านพลังงาน
- แผนพัฒนากำลังผลิตไฟฟ้า
- แผนอนุรักษ์พลังงาน
- แผนพัฒนาพลังงานทดแทนและพลังงานทางเลือก
- แผนบริหารจัดการก๊าซธรรมชาติ
- แผนบริหารจัดการน้ำมันเชื้อเพลิง
- แผนแม่บทการพัฒนาระบบโครงข่ายสมาร์ทกริดของประเทศไทย
- แผนพลังงานอื่นๆ

Evaluation



ความยั่งยืน
Sustainability



ความมั่นคง
Security

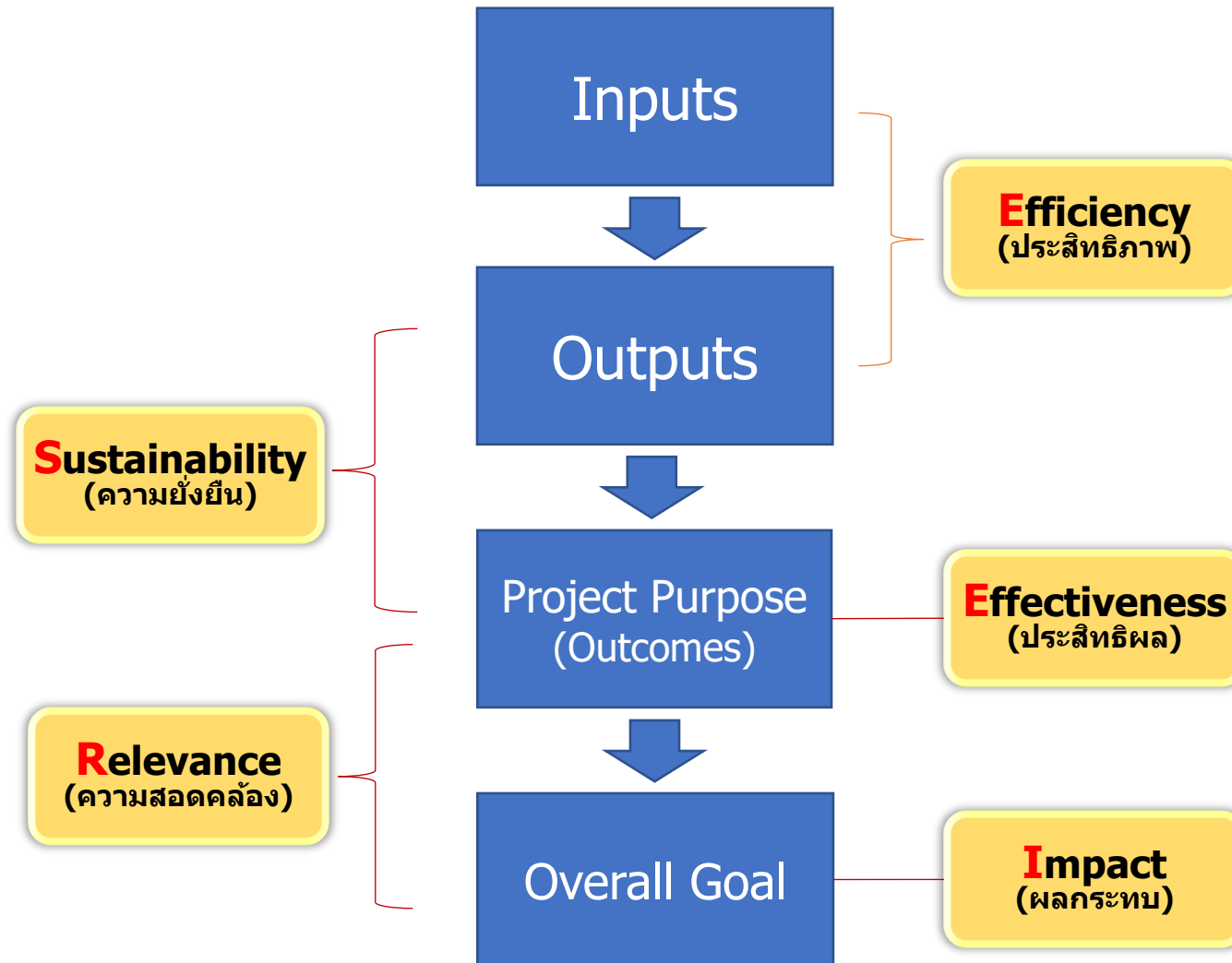


Energy
Trilemma
Index Tool



ความมั่งคั่ง
Economy

Project Level: Recently, government-funded projects are evaluated against the *DAC evaluation criteria* for pre-evaluation and post-evaluation.



Summary of key challenges in energy evaluation



Government budget is limited. Monitoring and Evaluation budgets are often removed.



Most government funded-projects / programs / measures do not include M&E plan.



Data gathering and collection is limited and not standardized, depended on the data owners.



Expertise (trained evaluators) is often limited.



The outcome of the evaluation is yet fully communicated to the stakeholders.

WHAT IGNITES CREATIVE ENERGY?



Thank You

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