

CCUS Potential in the Philippines

Jesus T. Tamang

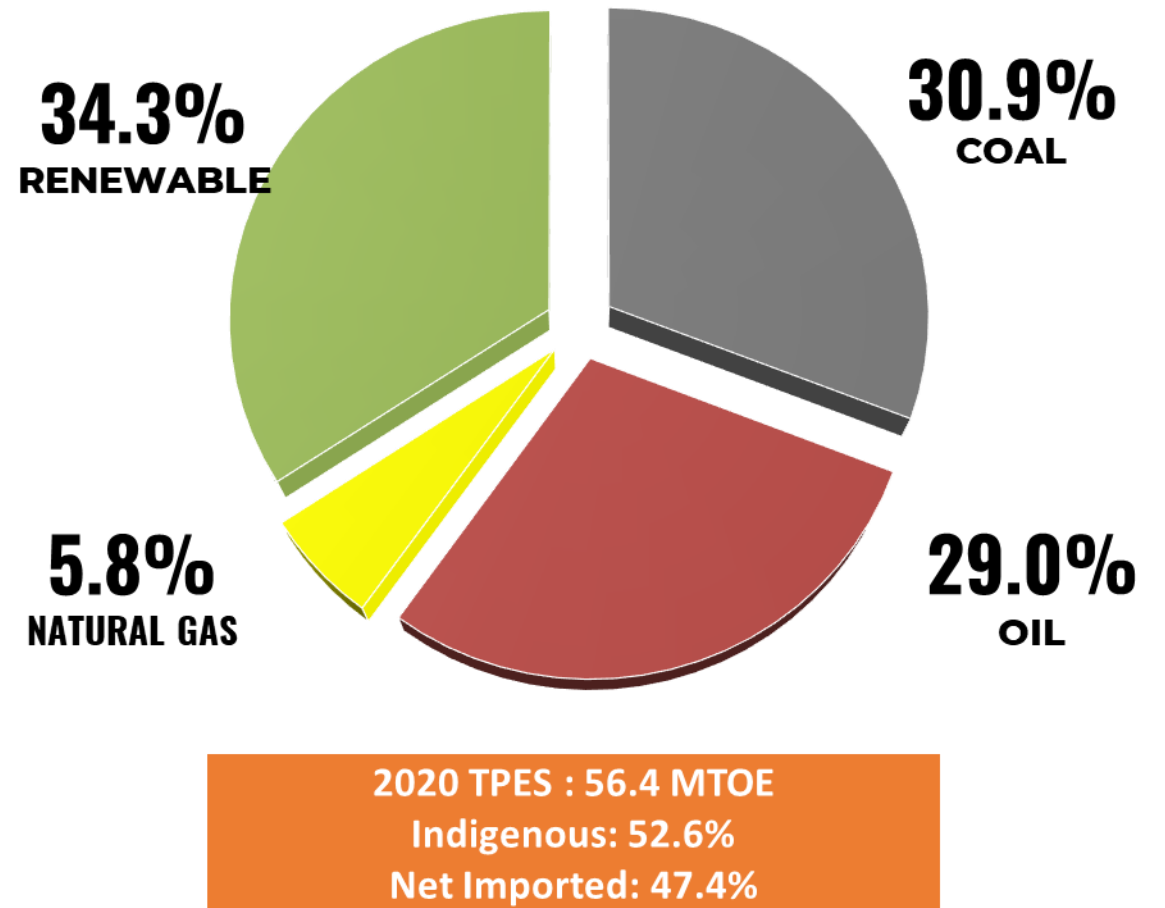
2nd Asia CCUS Network Forum

Prince Hotel, Tokyo, Japan

September 30, 2022

Policy

To support coal industry players and stakeholder such that the production and consumption of coal are met while ensuring the protection of the environment (Philippine Energy Plan 2020 – 2040 with the theme “Towards a Sustainable and Clean Energy Future”)



Strategy – Partnership and Cooperation

Promotion and advancement of the following:

- a. clean coal technology
- b. enhancement of low-quality coal
- c. dissemination and utilization of best practices in the coal sector
- d. promotion of social acceptability of coal
- e. private sector participation in community development and investment, and
- f. determining the applicability of other **potential technologies**

Currently, **Carbon Capture Utilization and Storage (CCUS)** is identified as part of “potential technologies” that is requiring determination of its applicability in the Philippines.




Potential role of CCUS to achieve carbon neutral

Policies, programs and laws for the benefit of consumers and industry players




- RPS
- GEAP
- Net Metering
- GEOP
- RE Paradigm Shift
- National Wealth Tax
- GHG Reduction

CONVENTIONAL AND RENEWABLE ENERGY





- Uniform Bill Format
- Murang Kuryente Act of 2019
- Suspension of UC-EC
- CSP
- RCOA
- Benefits to Host Communities

POWER SECTOR





- Fuel Cost Unbundling
- Fuel Quality and Facility and Process Standards Development
- Strategic Petroleum Reserve/Interim Oil Stockpiling

DOWNSTREAM OIL INDUSTRY





- Energy Efficiency and Conservation Act of 2019
- GHG Reduction
- Energy Performance Standards
 - Energy Labeling
 - Energy Audit

ENERGY EFFICIENCY AND CONSERVATION




- Multi-partite Monitoring Team (MMT)
- Climate Change Mitigation and Adaptation
- Energy Sector NDCs
- GHG Reduction

ENVIRONMENTAL MANAGEMENT





- Energy Resiliency Policy
- Task Force on Energy Resiliency (TFER)
- National Energy Contingency Plan (NECP)

ENERGY RESILIENCY





- LGU Energy Code (DOE and DILG Joint Memorandum Circular No. 2020-01)
- EVOSS
- EO 30 and EPNS
- EODBC Act of 2018
- AO 23

INVESTMENT PROMOTION



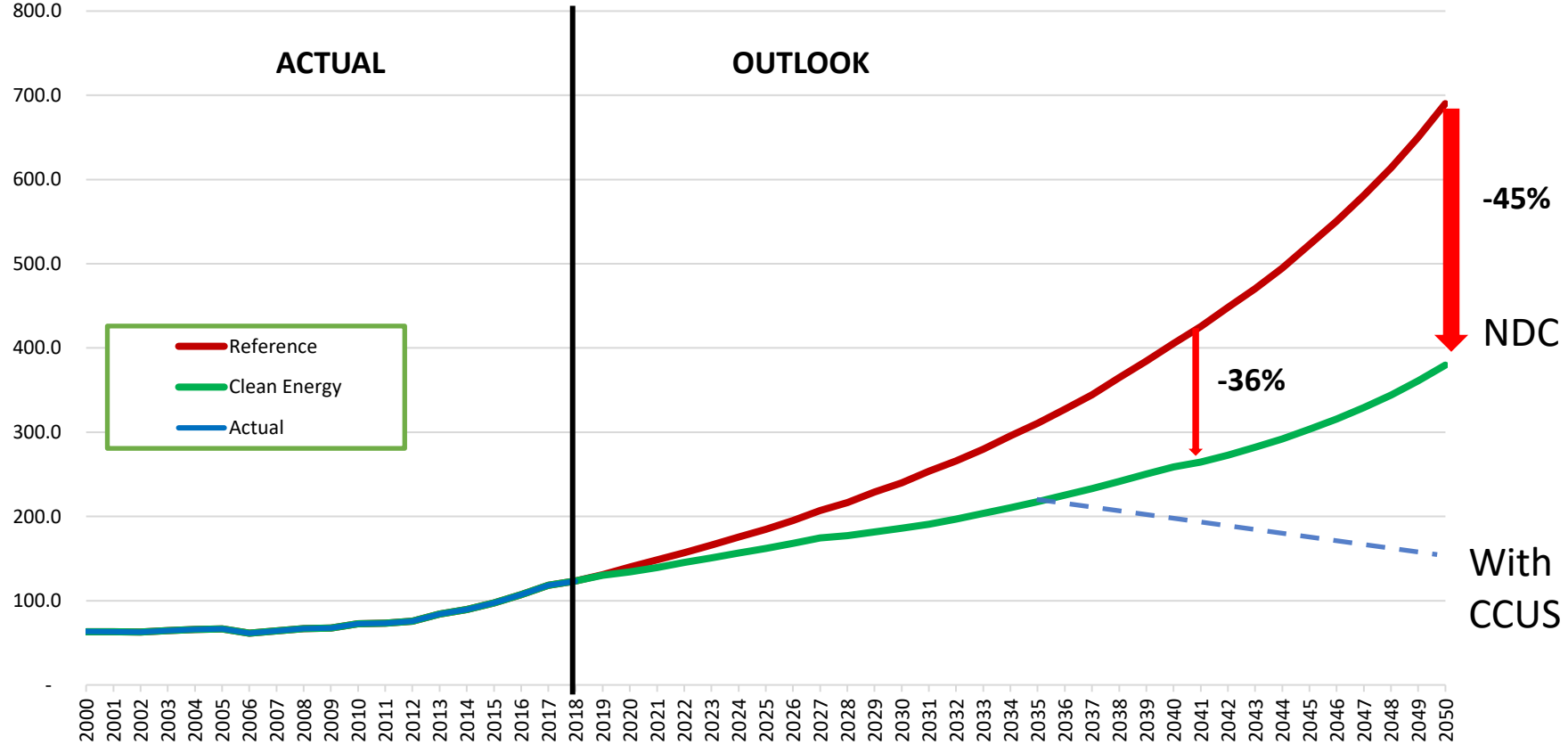
- Consumer Offices of the DOE, ERC, NEA, and DUs

CONSUMER WELFARE



Potential role of CCUS to achieve carbon neutral

Energy Sector GHG Emission Reduction Under Nationally Determined Contribution



	MTCO ₂ e						AAGR
	2000	2010	2018	2030	2040	2050	2018-2050
Actual	63.3	72.8	123.3				
Reference				240.1	405.5	690.0	5.6%
Clean Energy				186.1	258.9	379.7	3.3%
% Reduction				-22.5%	-36.1%	-45.0%	

CCUS-related activities

ADB Study published in 2013 - “Prospects for Carbon Capture and Storage in Southeast Asia”

- Covered power plants south of Metro Manila
- Assessed sufficiency of CO₂ volumes for capture
- Reviewed geological data for storage capacity and potential storage sites in oil and gas fields
- Analyzed policy, technical, regulatory, financial, and public acceptance issues to address challenges in CCS deployment
- Developed an actionable road map for a pilot project
- Established a broad-based CCS working group within government

CCUS Potential in the Philippines

Jesus T. Tamang

2nd Asia CCUS Network Forum

Prince Hotel, Tokyo, Japan

September 30, 2022