



ENERGY
TRANSITION
PARTNERSHIP



CASE
for Southeast Asia

ENERGY TRANSITION DIALOGUE 2022

ASEAN Outlook for Zero Carbon Energy

9th February 2022

Philippine Energy Transition Policies and Efforts

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DEPARTMENT OF ENERGY

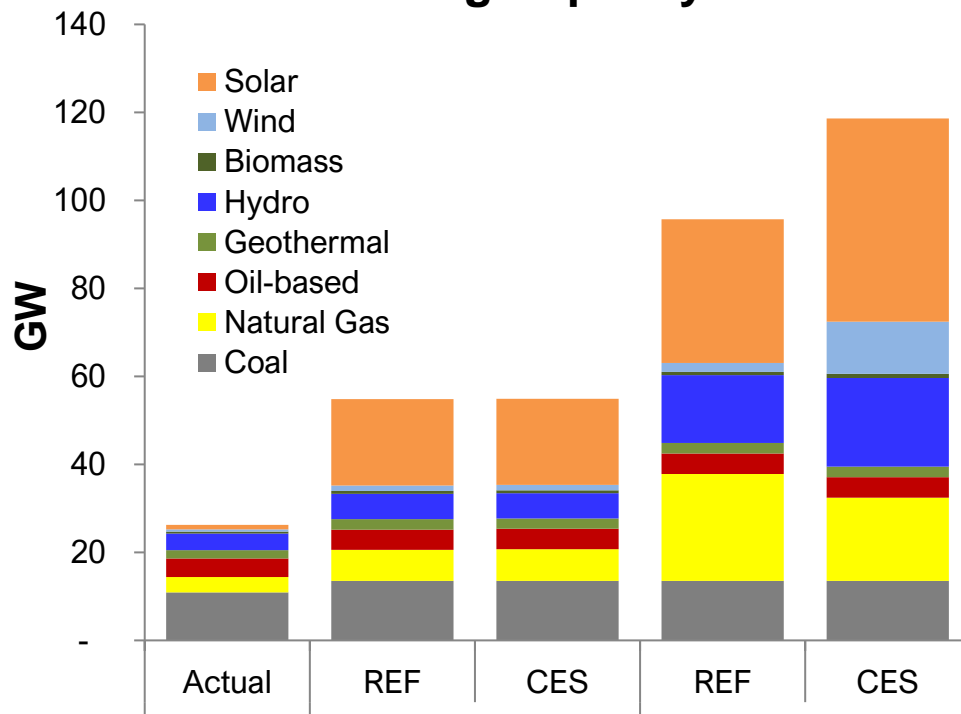


OVERVIEW OF THE ELECTRICITY SECTOR

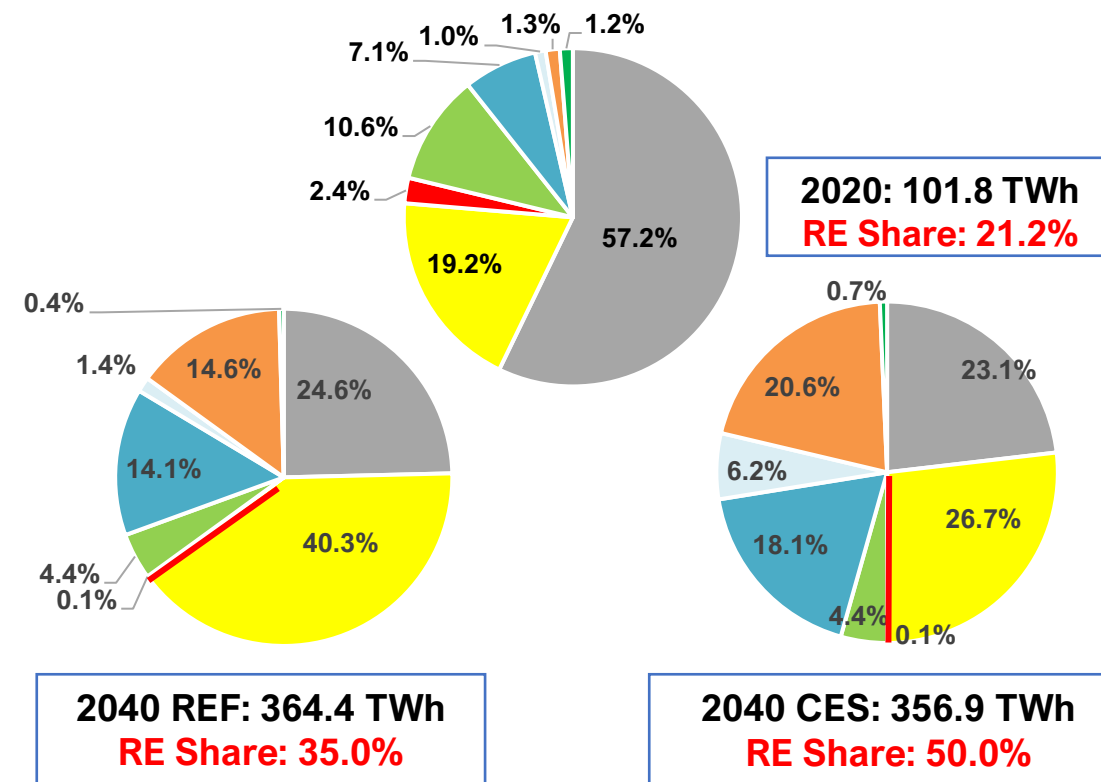
2040 Energy Outlook : Capacity and Generation

Power Generation

Installed Generating Capacity

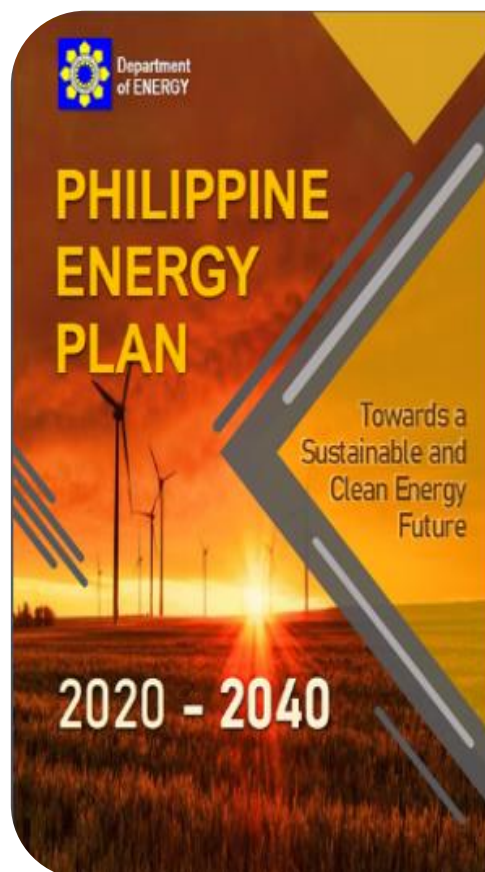


2020: 26,286 MW
2040: 95,670 MW (REF)
2040: 118,570 MW (CES)



STATUS OF THE ENERGY TRANSITION :

Sustainable Path Towards Sustainable Energy



Reference Scenario

- + RE
- + EE and C
- + Other Energy Technologies
- + ICT
- + Resiliency



Clean Energy Scenario

- Energy Security
- Sustainable Energy
- Resilient Infrastructure
- Competitive Energy Sector
- Smart Homes and Cities
- Empowered Consumers



2020-2040 Philippine Energy Plan

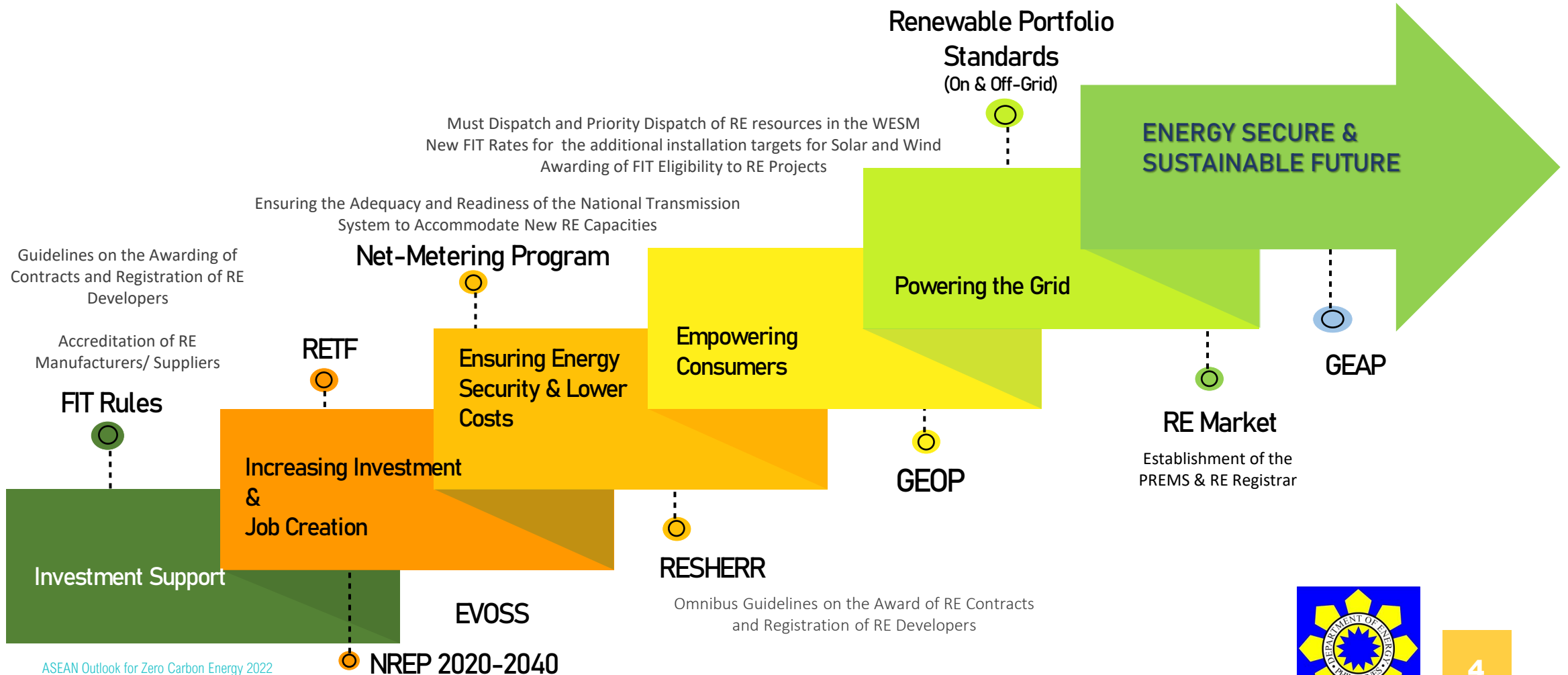
Clean Energy Scenario

- 35.0 percent and 50.0 percent RE share in the power generation mix by 2030 and 2040
- 5.0 percent blending for biodiesel starting 2022
- 1.5 percent increase in aggregated natural gas consumption from the transport and industry sectors between 2020 and 2040
- 10.0 percent penetration rate of electric vehicles for road transport (motorcycles, cars, jeepneys) by 2040;
- 5.0 percent energy savings on oil products and electricity by 2040
- At least 12.0 percent reduction in the GHG emission for the Nationally Determined Contribution (NDC)



ACHIEVEMENTS

Renewable Energy Policy Mechanisms



National Renewable Energy Program

Goals and Objectives

- ❖ NREP sets a target of at least **35% RE Share** in the power generation mix (MWh) by 2030
- ❖ NREP works to drive **RE share to greater than 50% by 2040** dominating the mix



Energy Efficiency and Conservation Act



Formulation of National and Local Energy Efficiency and Conservation Plan (NEECP/LEECF)



Creation of the Inter-Agency Energy Efficiency and Conservation Committee (IAEECC)



Establishment of Energy Efficiency Conservation Office (EECO)



Categorization of Establishments

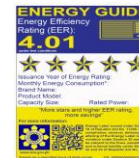
- Type 1 : 0.5 to 4.0 GWh annual consumption
- Type 2 : above 4.0 GWh annual consumption



Designation of Certified Energy Conservation Officer (CECO) for Type 1 and Certified Energy Manager (CEM) for Type 2



Development and compliance to Minimum Energy Performance (MEP) Standards (appliances, lighting, electrical equipment, machinery, etc.)



Energy Efficiency Rating and Labelling System (aircon, refrigerator, television, lighting products)



Provision of Fiscal and Non-fiscal Incentives for Energy Efficiency Programs and Projects

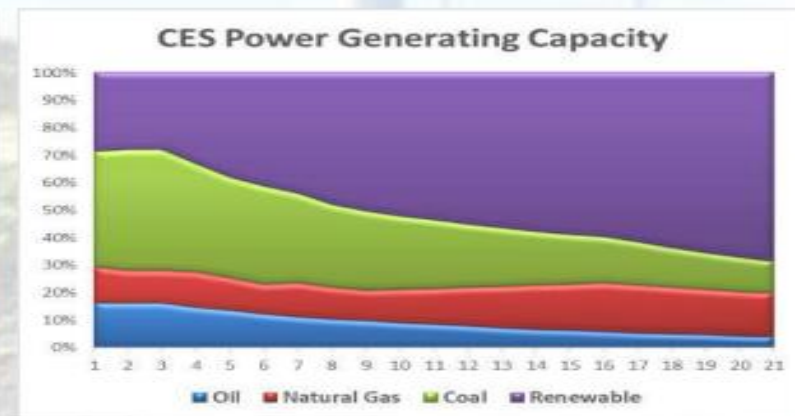
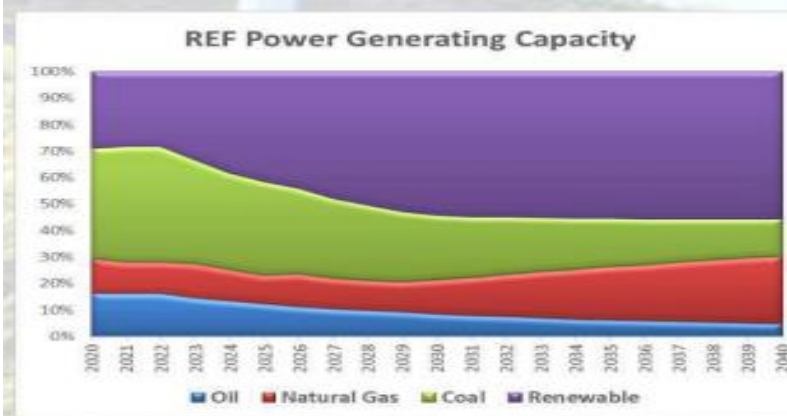
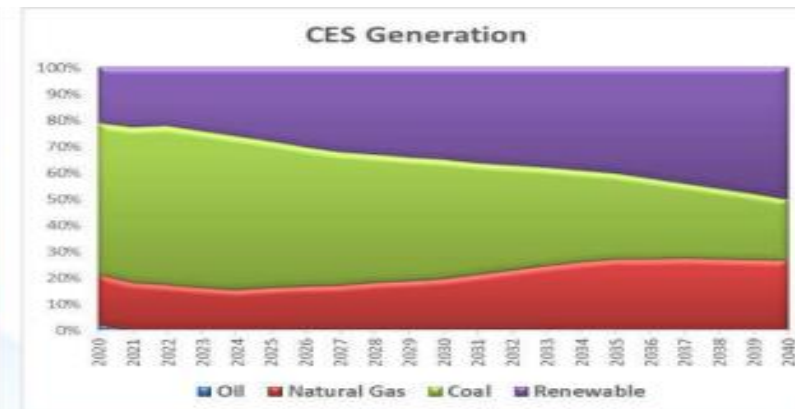
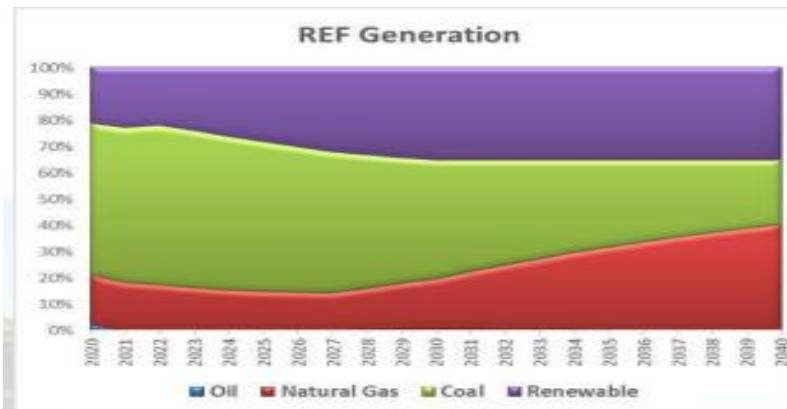


Enhanced Demand Side Management (DSM) Mechanism

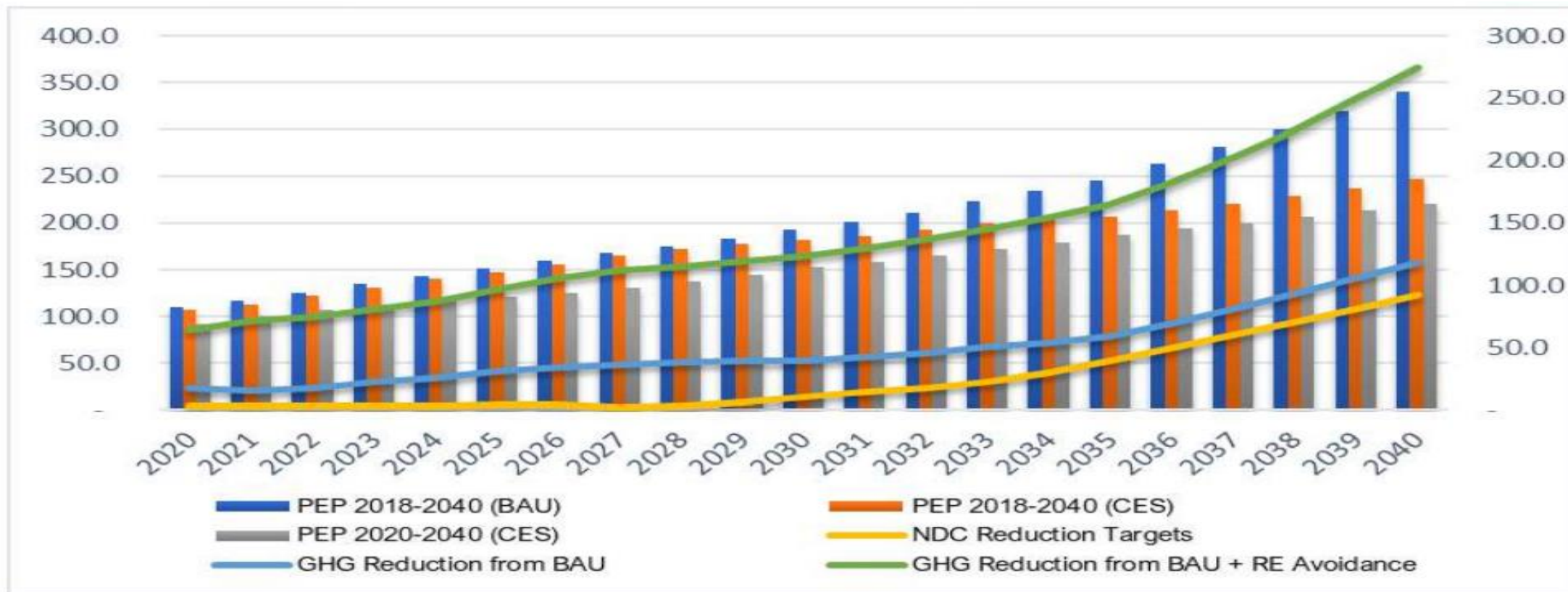
CHALLENGES AND BARRIERS

Power Sector Transition

The energy sector welcomes and is open into **fast tracking** the transformation and transition. What remains as a **fundamental requirement** in this bold move is that it should stem to **affordability of energy services to consumers, expand energy access, advance energy security, and ensure reliability.**



GHG Emissions and Avoidance (NDC Targets vs 2020-2040 PEP Targets)



Investment Requirements

TOTAL ENERGY INVESTMENT REQUIREMENTS BY SCENARIO, 2020-2040 (USD Billion @ 2020 Prices)		
SECTOR	SCENARIO	
	Reference Scenario (REF)	Clean Energy Scenario (CES)
UPSTREAM	23.53	23.68
Oil and Gas	10.05	10.05
Coal	13.12	13.12
Renewable Energy (Pre-Development)	0.36	0.51
DOWNSTREAM	7.70	7.09
Oil Depot	2.07	1.88
Import Terminal	1.36	1.06
LNG Terminal	1.78	1.78
Biodiesel	0.01	0.10
Bioethanol	2.49	2.28
POWER	111.64	122.22
Generation	104.67	115.25
Transmission	6.97	6.97
TOTAL	142.87	152.99

Thank you!



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