



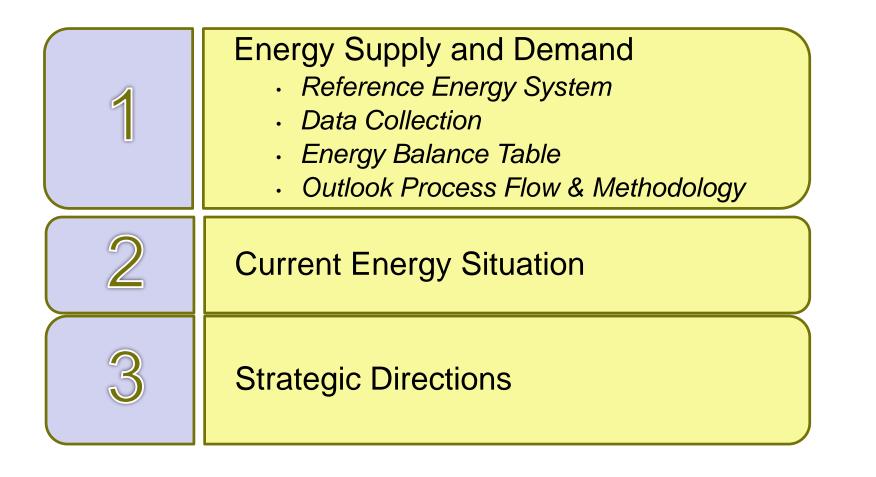
PHILIPPINES' ENERGY STATISTICS AND CURRENT ENERGY SITUATION

Ms. Charmaine Rafael Taliping Department of Energy

Workshop on Energy Statistics for ASEAN Countries Kuala Lumpur, Malaysia 21 November 2017







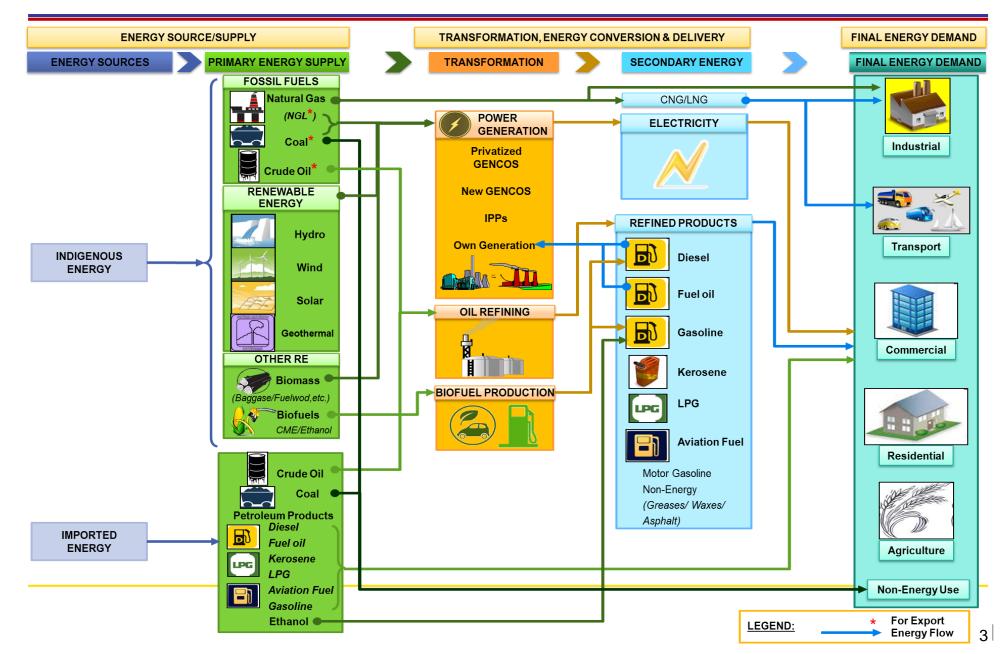




ENERGY SUPPLY AND DEMAND

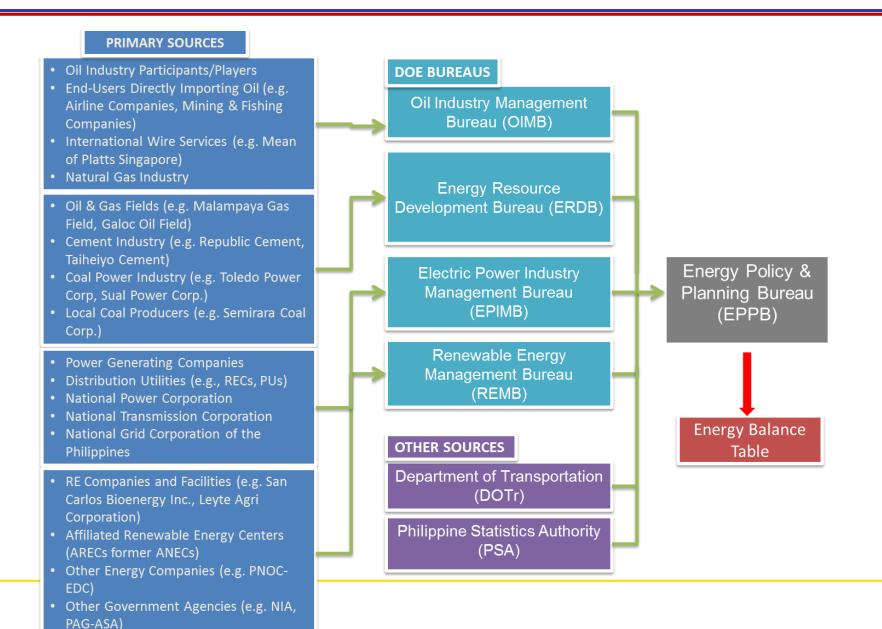












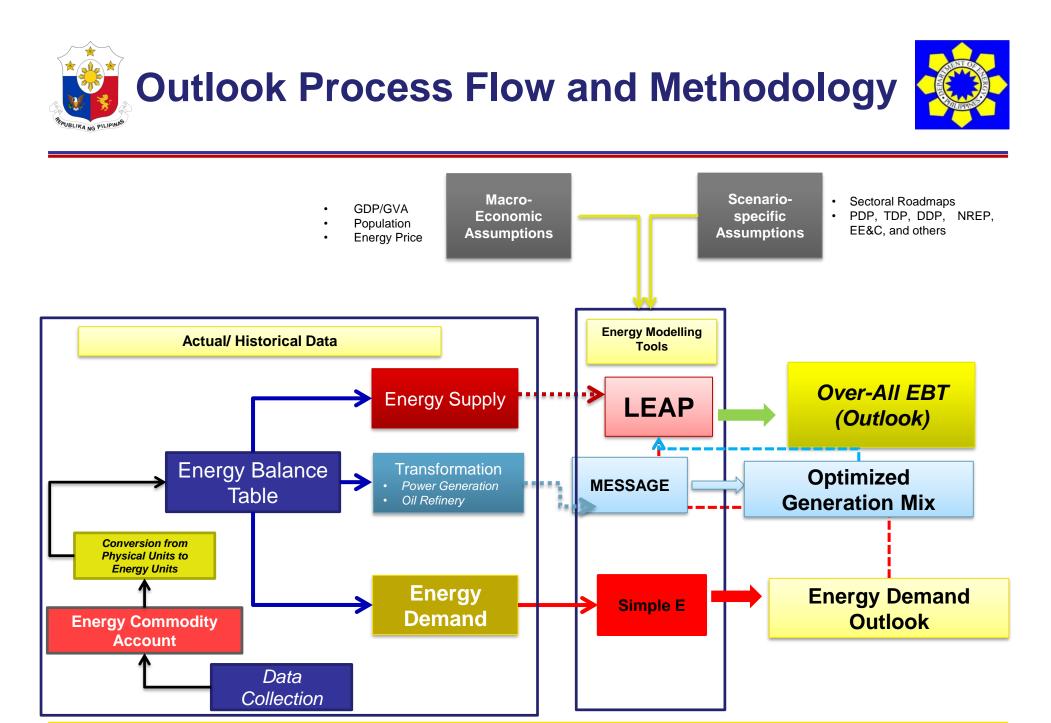


Energy Balance Table



2016 Energy Balance Table (EBT), in KTOE

	Coal	Natural Gas	Oil & Oil Products	Hydro	Geothermal	Solar	Wind	Biomass	Biodiesel	Bioethanol	Electricity	Total
Indigenous	5,917	3,270	702	2,019	9,519	94	84	7,494	178	127	-	29,405
Imports (+)	10,572	-	21,454	-	-	-	-	-	-	145	-	32,171
Exports (-)	(3,607)	-	(1,919)	-	-	-	-	-	-	-	-	(5,526)
International Marine Bunkers (-)	-	-	(50)	-		-	-		-	-	-	(50)
International Civil Aviation (-)	-	_	(1,296)	-		-	-		-	-	-	(1,296)
Stock Change (+/-)	(1,196)	-	(345)	-	-	-	-	-	(10)	37	-	(1,514)
Total Primary Energy Supply	11,686	3,270	18,547	2,019	9,519	94	84	7,494	168	309	-	53,189
Refinery (Crude Run)	-	-	(556)	-	-	-	-	-	-	-	-	(556)
Power Generation (Fuel Input)	(10,232)	(3,082)	(1,230)	(2,019)	(9,519)	(94)	(84)	(282)	(9)	-	7,807	(18,745)
Transmission/Dist. Loss (-)	-		-	-	-	-	-	-	-	-	(712)	(712)
Energy Sector Use & Loss (-)	-	(123)	(121)	-	-	-	-	-	-	-	(719)	(963)
Net Domestic Supply	1,454	65	16,639	-	-	-	-	7,212	158	309	6,376	32,213
Statistical Difference												(1,320)
% Statistical Difference												(4)
Total Final Energy Consumption	2,852	65	16,561	-	-	-	-	7,212	158	309	6,376	33,533
Industry	2,675	65	1,458	-	-	-	-	1,164	13	-	2,074	7,447
Transport	-	-	11,881	-	-	-	-	-	121	309	9	12,319
Residential	-	-	1,122	-	-	-	-	5,709	-	-	2,204	9,035
Commercial	-	-	1,632	-	-	-	-	340	21	-	1,872	3,865
AFF	-	-	229	-	-	-	-	-	4	-	218	450
Others, Non-energy Use	177	-	239	-	-	-	-	-	-	-	-	417
Self-Sufficiency (%)												55 .28





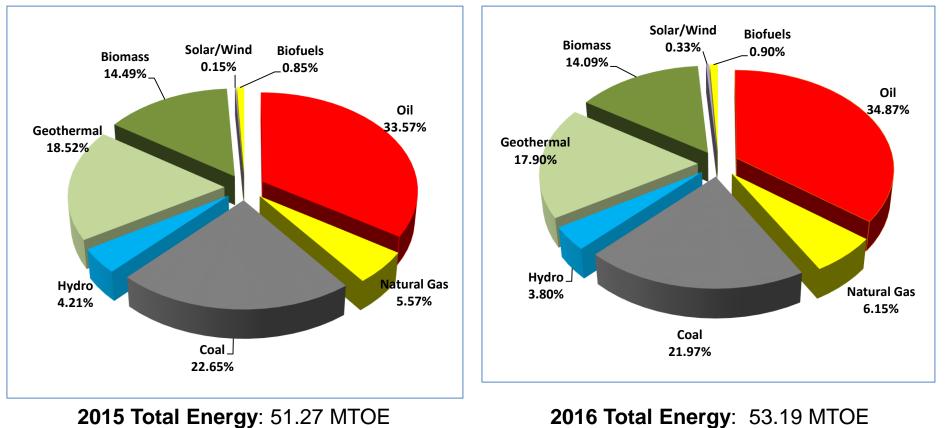


CURRENT ENERGY SITUATION



Primary Energy Mix





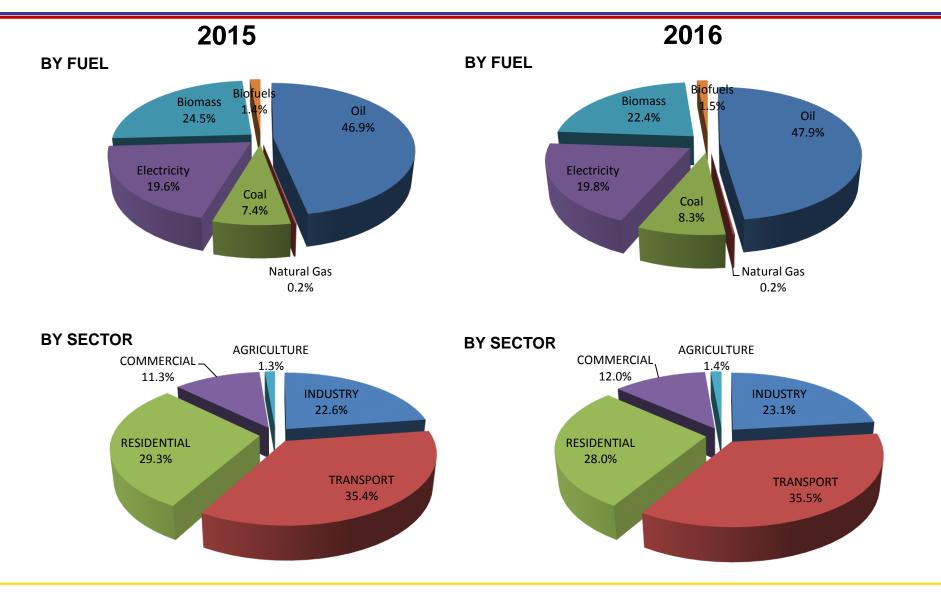
Self Sufficiency: 52.4%

Renewable Energy (RE) =38.2% Share of Green Energy (RE+Natgas) = 43.8% Self Sufficiency: 55.3%

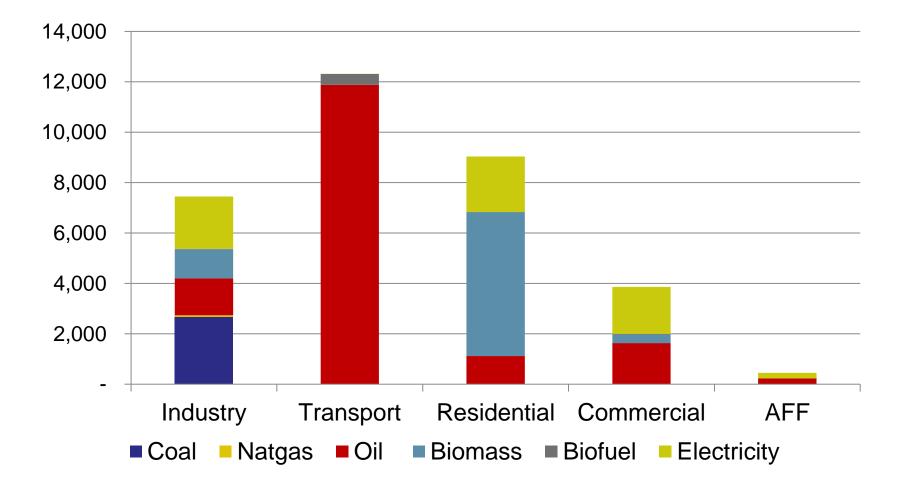
Renewable Energy (RE) = 37.0% Share of Green Energy (RE+Natgas) = 43.2%







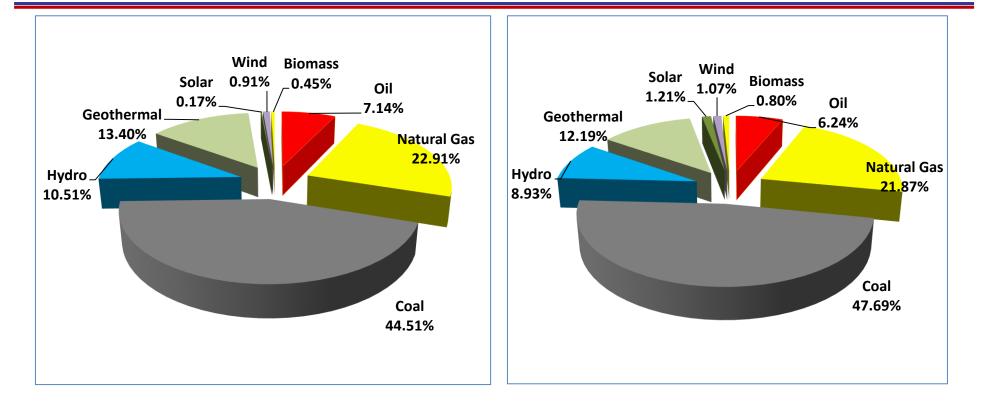






Power Generation Mix





2015 Total Generation: 82.4 TWh Self Sufficiency: 53.1%

Renewable Energy (RE) =25.4% Share of Green Energy (RE+Natgas) = 48.3% Share of Green Energy (RE+Natgas) = 46.1%

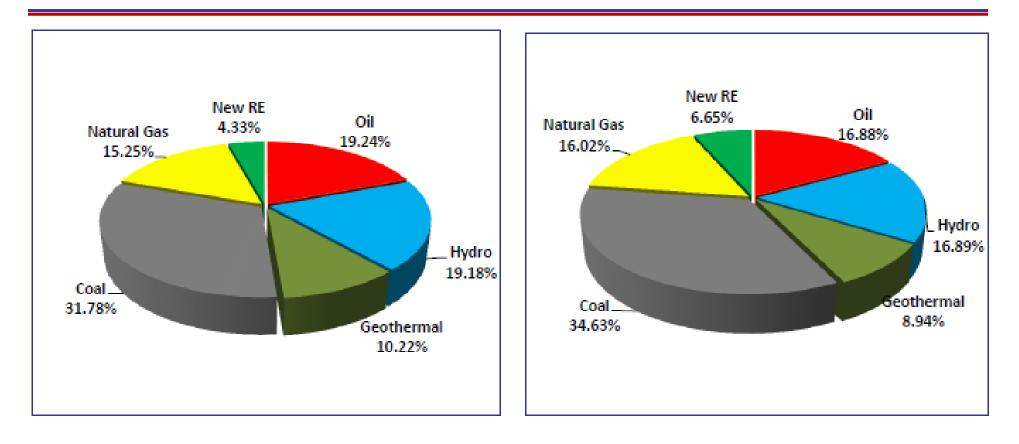
2016 Total Generation: 90.8 TWh Self Sufficiency: 51.0%

Renewable Energy (RE) = 24.2%



Installed Capacity Mix





2015 Total Installed Capacity: 18,765.0 MW

RE+ Natural Gas = 48.98% RE = 33.73% 2016 Total Installed Capacity: 21,423.0 MW

RE+ Natural Gas	= 48.49%
RE	= 32.48%





STRATEGIC DIRECTIONS





1 ENSURE ENERGY SECURITY	2 EXPAND ENERGY ACCESS	3 PROMOTE A LOW CARBON FUTURE	4 STRENGTHEN COLLABORATION AMONG ALL GOVERNMENT AGENCIES INVOLVED IN ENERGY
5 IMPLEMENT, MONITOR AND INTEGRATE SECTORAL AND TECHNOLOGICAL ROADMAPS AND ACTION PLANS	6 ADVOCATE THE PASSAGE OF THE DEPARTMENT'S LEGISLATIVE AGENDA	7 STRENGTHEN CONSUMER WELFARE AND PROTECTION	B FOSTER STRONGER INTERNATIONAL RELATIONS AND PARTNERSHIPS







ENSURE ENERGY SECURITY

- Audit and assessment for power generation, transmission and distribution facilities
- Appropriate portfolio of installed and dependable power capacity mix of 70% baseload, 20% mid-merit and 10% peaking plant categories matching peak demand and reserves
- Build an LNG Terminal for a future "Clean Energy City"
- Accelerate total privatization of PSALM assets
- Improve reliability, availability and resiliency of energy infrastructure and facilities
- Conduct energy contracting rounds





2

EXPAND ENERGY ACCESS TO ENSURE AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

- Achieve 100% electrification of targeted identified unelectrified households in all three major islands by 2022
- Connect the Mindanao grid with the interconnected Visayas and Luzon grids by 2020 to increase power supply reliability and resilience

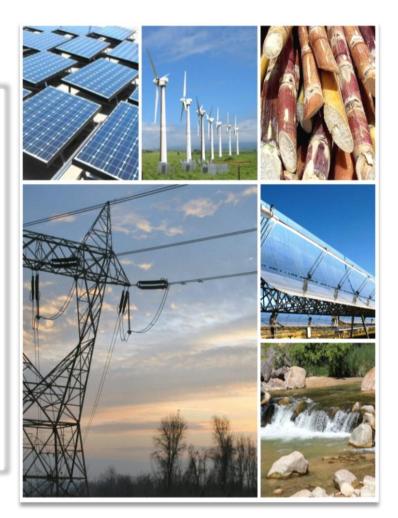






PROMOTE A LOW CARBON FUTURE

- Increase RE Capacity by 2030 (based on 2010 level)
- Promote technology innovation through research, development, demonstration and deployment
 - Clean, efficient and smart energy technologies
 - Infrastructure for next generation vehicles







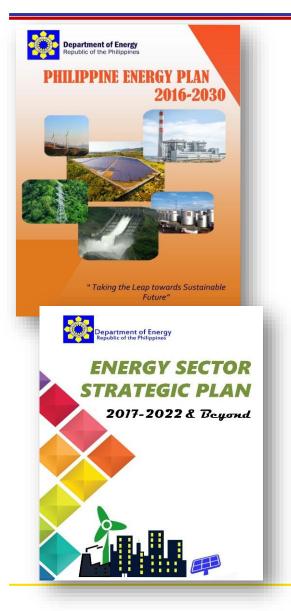


STRENGTHEN COLLABORATION BUILDING AMONG ALL GOVERNMENT AGENCIES INVOLVED IN ENERGY AND ENERGY-RELATED ISSUES

- Implement Executive Order (EO) 30 on Energy Projects of National Significance (EPNS)
- Energy Virtual One Shared System (EVOSS) platform for streamlined permitting
- Capacity and competency building of human resources of the "Energy Family" in the organizational, administrative, financial and legal areas







IMPLEMENT, MONITOR AND INTEGRATE SECTORAL AND TECHNOLOGICAL ROADMAPS AND ACTION PLANS

- Alternative fuels and energy technologies
- Energy efficiency and conservation
- o Oil, gas and coal resource development
- o Renewable energy
- o Downstream oil, gas and coal
- Power and electrification
- ICT for energy





6 ADVOCATE THE PASSAGE OF THE DEPARTMENT'S LEGISLATIVE AGENDA AND ISSUANCE OF PERTINENT RULES AND REGULATION

- Energy Efficiency and Conservation (EE&C), Natural Gas, Liquefied Petroleum Gas (LPG), Petroleum Upstream Regulation
- Review of existing laws such as EPIRA, Downstream Oil Industry, Renewable Energy









STRENGTHEN CONSUMER WELFARE AND PROTECTION THROUGH MULTI-SECTORAL MULTIMEDIA IEC PROGRAMS

- Scale up the *E-Power Mo, E-Safety Mo, E-Secure Mo, E-Diskarte Mo* campaign
- Integrate energy concepts in curriculum for public school students through seminars and field visits
- Promote alternative fuel vehicles and emerging energy technologies





FOSTER STRONGER INTERNATIONAL RELATIONS AND PARTNERSHIPS

- Bilateral and multi-lateral energy cooperation
- Facilitate free trade agreements on energy trade and services
- UN's Sustainable Energy for All (SE4All)







Thank you. Salamat po.

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