

# ECAP 14: Workshop Final Individual Presentation

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# Philippines Energy Efficiency Roadmap, 2017- 2040

## Roadmap Objectives:

To support the country's economic development through efficiency gains and ensure energy security with a reduction in energy intensity across key economic sectors.

## Drivers

- Sending market signals to provide incentives for EE
- Strengthening existing policy, advocacy, programs and institutional structures
- Harnessing private sector /partner finance
- Enabling innovation and new technologies

## Sectoral Strategies



Transport

### Short Term (2017-20)

- Minimum Fuel Efficiency Ratings developed
- Risk management on vehicle conversion, e-vehicle programs
- Re-formulated coordination mechanisms

### Medium Term (2021-30)

- Financial incentives for EE through vehicle taxes
- Promotion of key vehicle technologies
- Driver education and fleet management programs

### Long Term (2031-40)

- EE programs beyond road transport (passenger and cargo ships, aviation fuels)
- Reintegration of urban planning and transport energy use
- Congestion taxes



Industry

- Develop sectoral programs for EE in energy intensive industries
- Minimum Energy Performance (MEP) for motors, and other industrial devices
- Reporting by designated energy consumers

- Update MEP for industrial devices
- Implement demand side management programs
- Review of energy pricing
- Enhanced reporting & management for designated energy consumers

- Review inward investment rules for EE to remove distortions



# Philippines Energy Efficiency Roadmap, 2017- 2040




## Roadmap Objectives:

To support the country's economic development through efficiency gains and ensure energy security with a reduction in energy intensity across key economic sectors.

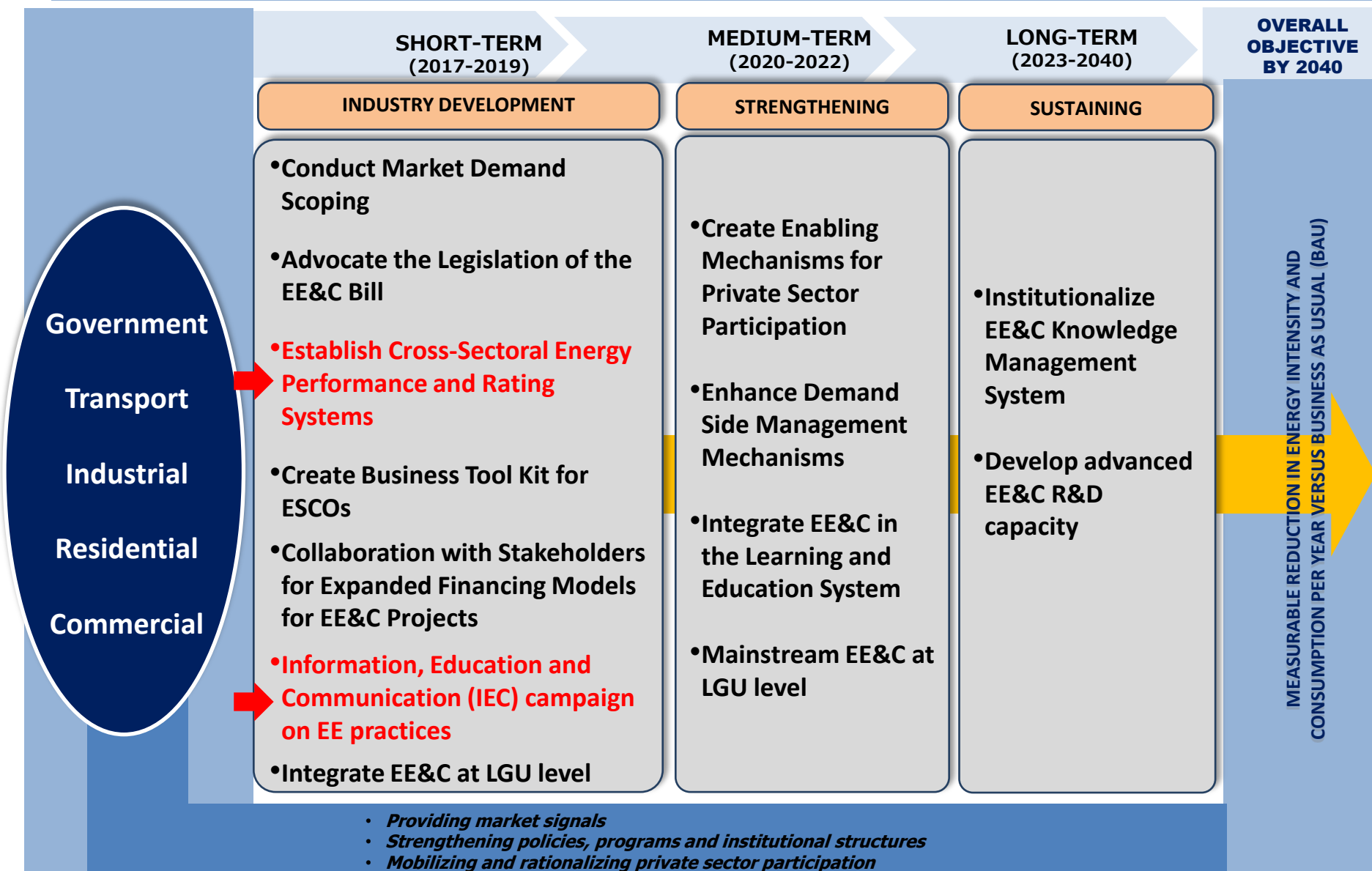
## Drivers

- Sending market signals to provide incentives for EE
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## Sectoral Strategies

	Short Term (2017-20)	Medium Term (2021-30)	Long Term (2031-40)
 Residential Buildings	<ul style="list-style-type: none"> <li>• Minimum Energy Performance for appliances</li> <li>• Building envelope measures – cool roofs and insulation</li> </ul>	<ul style="list-style-type: none"> <li>• Develop role of utilities as key implementation partners and information providers</li> <li>• Specific EE programs for low-income households</li> </ul>	<ul style="list-style-type: none"> <li>• Towards energy efficient housing precincts</li> <li>• Inclusion of EE measures in residential Building Code</li> </ul>
 Commercial Buildings	<ul style="list-style-type: none"> <li>• Reformulate group to oversee EE measures in Building Code</li> <li>• Retro-commissioning program for existing buildings</li> <li>• Benchmarking and ratings for building information &amp; reporting</li> </ul>	<ul style="list-style-type: none"> <li>• EE measures for inclusion in national and regional building codes</li> <li>• Enhance benchmarking and ratings</li> </ul>	<ul style="list-style-type: none"> <li>• Incentive funds in place for EE, including private financiers</li> <li>• Mandatory disclosure of commercial building energy intensity</li> </ul>
 Cross-Sectoral	<ul style="list-style-type: none"> <li>• Support passage of Enercon Bill</li> <li>• Establish EE database, data collection regime, M&amp;E framework</li> <li>• Stronger coordination with local government and private sector</li> <li>• Information &amp; education campaigns</li> </ul>	<ul style="list-style-type: none"> <li>• National strategy for efficiency in power supply sector</li> <li>• Establish enforcement regimes</li> <li>• Enhanced reporting and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Enhanced institutional arrangements</li> <li>• Enhanced predecessor activities</li> </ul>





# 1. How to increase number & quality of entries to AEA?

## Short-term Action Plan (2017-2019):

### Commercial & Government Building and Industrial Sectors

Programs / Activities	Strategies to increase the numbers & quality of the Application Entries to AEA
1. EE&C Recognition Award: Don Emilio Abello Energy Efficiency Award	<ul style="list-style-type: none"><li>a) Increase numbers of member of the TWG Committee, in addition to the traditional members, to include relevant government agencies (CCC, DENR, DPWH), PhilGBC, Phil. ESCO Association, Professional Organization, among others.</li><li>b) Review and enhance the local selection criteria for the local award entries which can be elevated later on for the AEA</li></ul>
2. Policy on the “Minimum Energy Performance (MEP) for Buildings, Industrial and Transport Sectors ( <i>on-going Public Consultation</i> )	<ul style="list-style-type: none"><li>a) The final draft Department Circular on MEP for Buildings, Industrial, and Transport sectors to be on stream for implementation by the 1<sup>st</sup> Quarter of 2018.</li></ul> <p>This shall increase the numbers of Companies/ establishments to submit Periodical Reports to the DOE in compliance to the Dept. Cir.</p>
3. Conduct Awareness Campaign: Information, Education and Communication Campaign	<ul style="list-style-type: none"><li>a) Seminar-workshop, Conference</li><li>b) Increase publicity on AEA by the use of Tri-Media, Social Media and DOE’s website</li><li>c) Conduct of In-House Briefings, Energy Audit</li></ul>



## 2. How to promote BEC/GBC in respective countries.....?

### Short-term Action Plan (2017-2019):

#### Commercial & Government Building and Industrial Sectors

Programs / Activities	Strategies to promote BEC/GBC in the Philippines
1. Policy on the “Minimum Energy Performance (MEP) for Buildings, Industrial and Transport Sectors <i>(on-going Public Consultation)</i> <i>(*for BEC development in the future)</i>	a) The final draft Department Circular on MEP for Buildings, Industrial, and Transport sectors to be on stream for implementation by the 1 <sup>st</sup> Quarter of 2018.
2. A.Os 110, 110-A, 126: Government Energy Management Program (GEMP)	a) EU-ASEP TA: Energy Efficiency in Government Building – Development of Energy Consumption Benchmark in Government Buildings (on-going) b) Increase numbers of Government Buildings to be Survey on site (On-the Spot Energy Audit) c) Increase effort to implement submission of Periodical Reports
3. Development of Energy Benchmark in the Commercial and Industrial Sectors	a) Extend EU-ASEP TA project to include private commercial buildings and manufacturing establishments



## 2. How to promote BEC/GBC in respective countries.....?

### Short-term Action Plan (2017-2019):

#### Commercial & Government Building and Industrial Sectors

Programs / Activities	Strategies to promote BEC/GBC in the Philippines
4. Integrate and mainstream EE at the Local Government Units (LGUs)	a) Conduct of seminar workshop and capacity development for the implementation of appropriate National Law or formulation of Local Policy Ordinance such as but not limited on the following: <ul style="list-style-type: none"><li>i. Green Building Ordinance</li><li>ii. Implementation of the Philippine National Green Building Code as a referral Code of the National Building Code</li><li>iii. MEPS Ordinance for Buildings and Industries that would support Building Rating/Labelling System</li></ul>
5. Conduct Awareness Campaign: Information, Education and Communication Campaign	a) Seminar-workshop, Conference b) Increase publicity on AEA by the use of Tri-Media, Social Media and DOE's website c) Conduct of In-House Briefings, Energy Audit



## \* How to develop ZEB Concept in the Special Submission Category?

Proposal:

1. Consider the following parameters / criterion:

- Electricity generated from the PV Solar Panel must have a Minimum Peak KW contribution of at least **10%** of the Actual KW Demand basing on the Electric Utility Bill for one (1) year. –*(Net Metering is essential)*
- Established baseline year of 2015 where the current electricity consumption would be compared to determine the electricity saving.

$$ES = BY2015 (Kwh) - CY(Kwh)$$

*Note: Baseline year shall be automatically change every 5 years.*

- As-built installation Plan should be included in the Report





## **\*\* Request for the AJEEP activity (if any)**

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Conduct Regional Technical Seminar-Workshop on the Development of Energy Consumption Benchmarking / Building Energy Intensity that geared towards Policy formulation on the development of Building Energy Code.



# Thank You!



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