



# COMPREHENSIVE AND HOLISTIC SMART GRID POLICY FRAMEWORK AND ROADMAP FOR THE PHILIPPINES

**Redentor E. Delola**  
*Assistant Secretary, DOE*

Energy Consumers and Stakeholders' Conference 2017  
29 November 2017  
Fontana Hot Spring Leisure Parks, Clark Pampanga



# Outline of Presentation

- I. Introduction
- II. DOE Circular No. DC2013-03-0003
  - A. Creation of an Inter-Agency Steering Committee (IASC)
  - B. Powers and Functions of the IASC
  - C. Deliverable of the IASC
- III. Ongoing Initiatives
- IV. Smart Grid Forum 2017



# Smart Grid

in one glimpse

## Energy

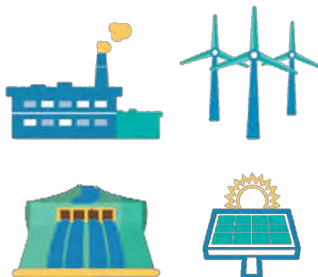
### Upstream



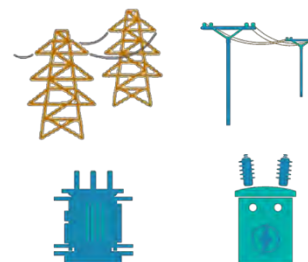
### Downstream



### Generation



### Transmission & Distribution



### Consumers



## Information and Communications Technology



seamless wireless communication



smart meters



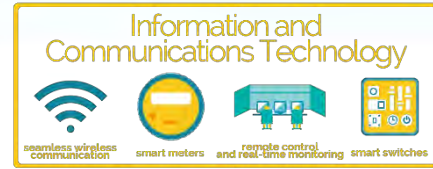
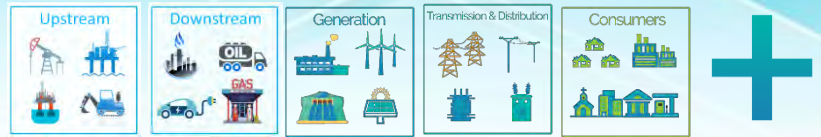
remote control and real-time monitoring



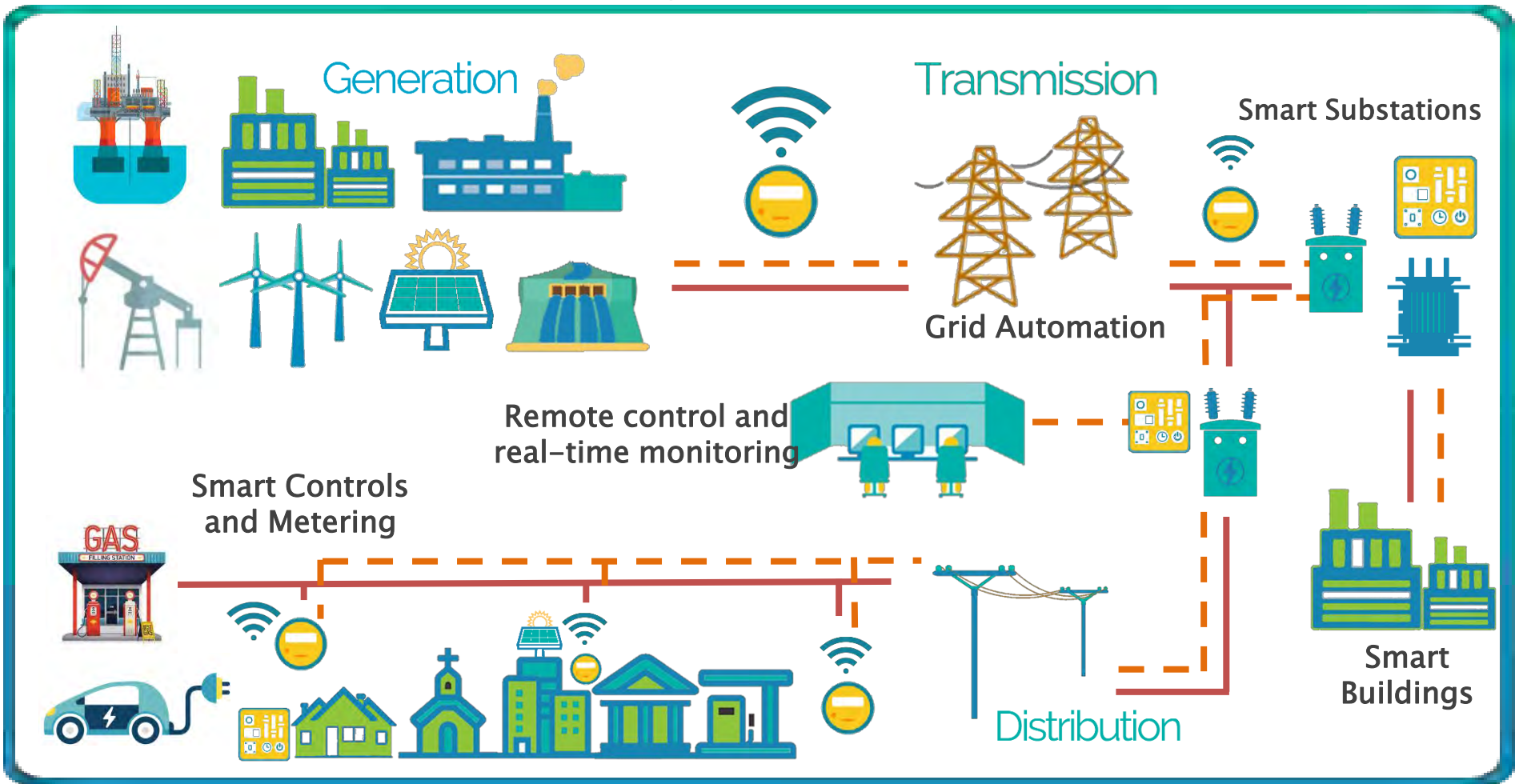
smart switches

# Smart Grid

in one glimpse



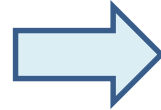
=



# Smart Grid

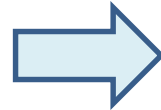
in one glimpse

Financial Sector



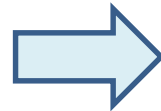
*bitcoin*

Transport Sector



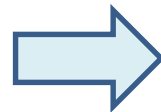
U B E R

Tourism Sector



*airbnb*

Energy Sector





# I. Introduction

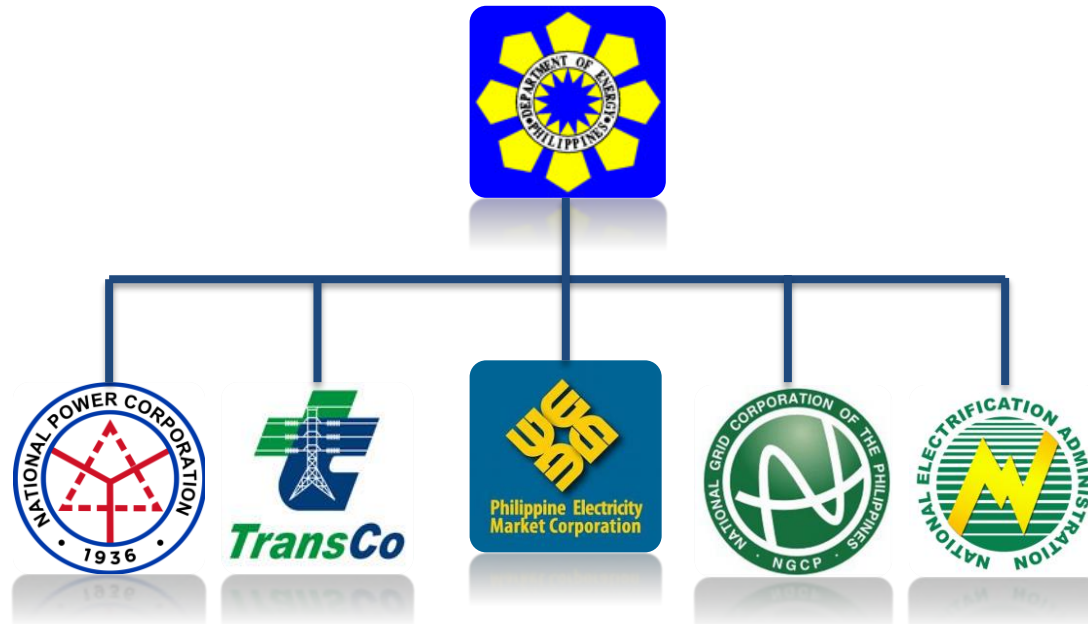
- **The DOE issued Department Circular No. DC2013-03-0003 on 11 March 2013**

Creating an Inter-agency Steering Committee for the Development and Formulation of a comprehensive and holistic Smart Grid Policy Framework and Roadmap for the Philippine Electric Power System.

## II. Salient Features of DOE Circular No. DC2013-03-0003

### A. Creation of an Inter-Agency Steering Committee

Chaired by DOE  
Secretary / Undersecretary



## II. Salient Features of DOE Circular No. DC2013-03-0003

### B. Powers and Functions of the Steering Committee

- ✓ To create or form the necessary technical working groups (TWGs)
- ✓ To invite other concerned government agencies and private organizations, groups or individuals as members and resource persons in order to assist in the development of the Smart Grid roadmap
- ✓ To meet on a regular basis for the purpose of monitoring and evaluating the implementation and recommendation



## II. Salient Features of DOE Circular No. DC2013-03-0003

### C. Deliverable of the Inter-Agency Steering Committee

- To propose a National Strategy for the Smart Grid for the period until 2030 with major consideration on the possible impact to the price of electricity.
- To formulate and prepare the transition policies and guidelines for the effective implementation of Smart Grid by all electric power industry participants.
- To prepare a Roadmap for Smart Grid implementation
- To formulate customer education and information framework for country-wide SG

# III. Ongoing Initiatives

## Creation of the Smart Grid Technical Working Groups

Steering  
Committee



Technical  
Secretariat



Consumer  
Empowerment

Sustainable &  
Renewable Energy

ICT &  
Cybersecurity

Power System  
Operation

Standardization

Regulatory  
Support

# III. Ongoing Initiatives

## Smart Grid Technical Working Group DOE Leads

TWG	DOE Lead Bureau/Office/Services
1. Consumer Empowerment	Consumer Welfare and Promotion Office (CWPO)
2. Power System Operation	Electric Power Industry Management Bureau (EPIMB)
3. Sustainable & Renewable Energy	Renewable Energy Management Bureau (REMB)
4. Standardization	Energy Utilization Management Bureau (EUMB)
5. ICT & Cybersecurity	Information Technology and Management Services (ITMS)
6. Regulatory Support	Legal Services (LS)





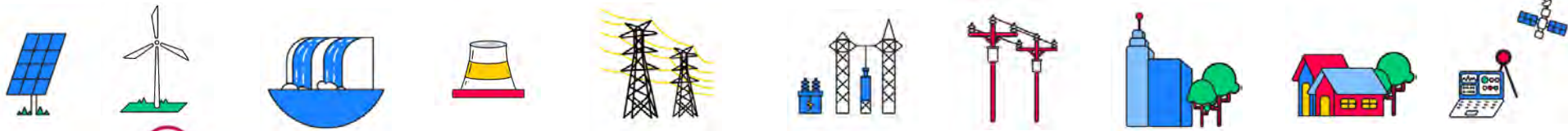
# IV. Smart Grid Forum 2017



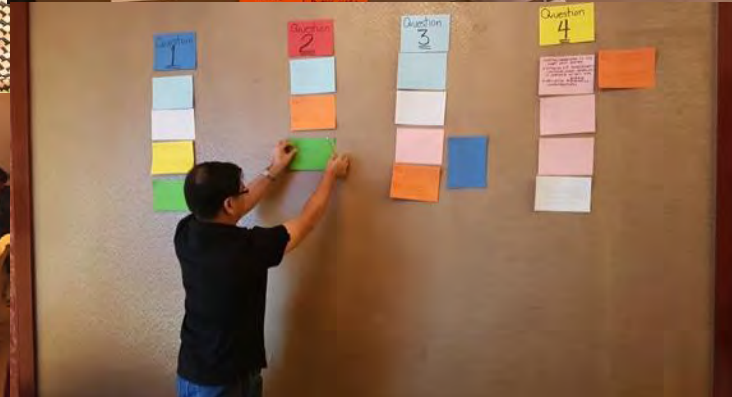
# Aspects of Smart Grid







# SMART GRID



# Highlights of the Smart Grid Forum

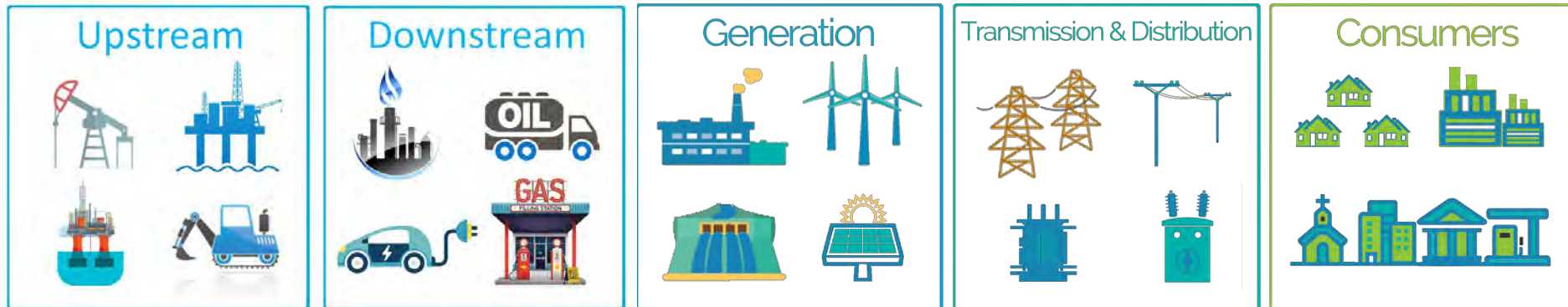
- **Global trends and disruptive technologies** necessitate the urgent shift to



# Smart Grid

# Highlights of the Smart Grid Forum

- Smart grid development is a **country-wide** effort that requires the **holistic** contribution of all the energy sectors involved





# Highlights of the Smart Grid Forum

- Different sectors moving into **different levels of Smart Grid System adoption**



- Strategic push needs to be exerted on increasing **interoperability** between systems, strengthening **shared platforms**, and establishing harmonized **standards and protocols**;





# Highlights of the Smart Grid Forum



- Clarifying regulatory limitations and facilitating **regulatory approvals** will expedite **investments** for the **scale up** and replication of smart grid systems.





# Thank You!



[\(+632\) 479-2900](tel:+6324792900)



[info@doe.gov.ph](mailto:info@doe.gov.ph)



[www.doe.gov.ph](http://www.doe.gov.ph)



<https://web.facebook.com/doe.gov.ph>



[@doe\\_ph](https://twitter.com/doe_ph)

