Providing for Policies and Guidelines on the Conduct of Performance Audits for All Power Generating Plants, Transmission and Distribution Utilities

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Outline of Presentation

I. Introduction

II. Salient Features of DOE Circular No. DC2017-005-0008

- A. Policy and Objectives
- B. Scope of Coverage
- C. Creation of the Task Forces and Support Groups
- D. Responsibilities of the Task Forces
- E. Logistics
- F. Confidentiality and Ownership of Information and Findings
- G. Institutionalization
- H. Incentives and Penalties

III. Timeline and On-going Initiatives

A. What is performance assessment or audit?

systematic and objective examination of all G-T-D infrastructures, operations and processes based on an established set of parameters or "benchmarks"





performed by industry experts to evaluate compliance

A. Why Performance Assessment/Audit?



- Assess effectiveness of policies and regulations
- Balance the interest of utilities and consumers
- find practical solutions to problems, not to affix blame
- Strengthen compliance, monitoring, evaluation and response

B. Why Performance Assessment/Audit?



Contribute/support socio-economic targets

Increase stakeholder confidence and investments



Ensure safety and compliance to environmental standards

deliver stable, secure and reasonably-priced electricity

B. Why Performance Assessment/Audit?

STAKEHOLDERS

- Identify key areas for improvement;
- Assess risks, economy, efficiency and quality;



- Achieve optimal business operations;
- Safety
- ✓ Deliver "value for money" electricity services to consumers

B. Why Performance Assessment/Audit?









- C. Is this a common practice?
 - ✓ WESTERN AUSTRALIA Economic Regulation Authority (ERA)
 - ★ Electricity Industry Act 2004
 - not less than once in every period of 24 months (or any longer period that the Authority allows)
 - ★ conducted by an independent expert acceptable to the Authority
 - CALIFORNIA California Public Utilities Commission (CPUC)
 - five (5) years, but frequency may be increased based on any significant problems found
 - Covers transmission, distribution
 - ✓ NEW ZEALAND Electricity Authority
 - review and assess the performance of the system operator every financial year
 - ✓ AUSTRALIA
 - annual benchmarking for distribution and transmission

D. Performance Assessment/Monitoring and Audits for Philippines Electric Power Industry

Agency	Generation	Transmission	Distribution
DOE	Circulars, WESM Rules	Circulars, WESM Rules, Retail Rules	Circulars, WESM Rules, Retail Rules
ERC	COC, PGC	PBR, PGC	PBR, PGC, RSEC-WR
GMC	PGC	PGC	
DMC	PSGC		PDC, SIR
NEA			EC KPS, Financial, Technical, Organization Audit
TRANSCO		Concession Agreement	
PEMC	WESM Rules, MO/MSP Audit	WESM Rules, Retail Rules, MO/MSP Audit	WESM Rules, Retail Rules, MO/MSP Audit

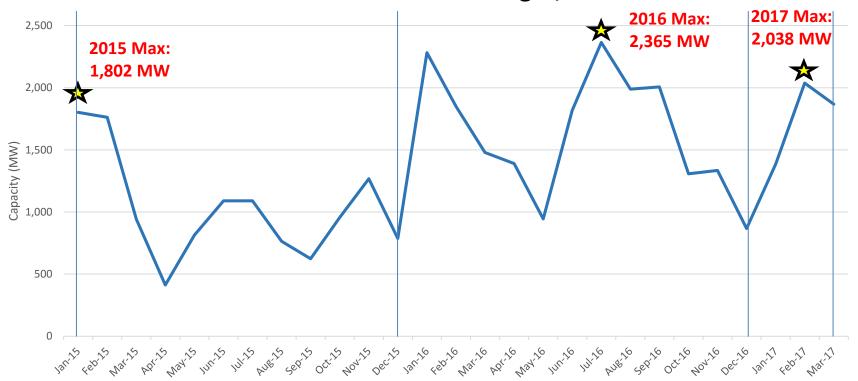
D. Performance Assessment/Monitoring and Audits for Philippines Electric Power Industry

Agency	Generation	Transmission	Distribution	Environment
DOE	D - I	D – DE - R	D – DE - R	D - I
ERC	D	D	D	
GMC	D	D		
DMC			D – I – R	
NEA			D - I	
TRANSCO		D – I - R		
PEMC/WESM Governance	D – DE - I - R	D – DE - I - R	D – DE - I - R	

Legend: D – Documentary DE – Desktop Evaluation I – Inspection R - Recommendatory

Overview of Performance – GENERATION

2015 – 2017 Forced Outages, Luzon



Dependable Capacity = 13,600 MW, as of 31 December 2016

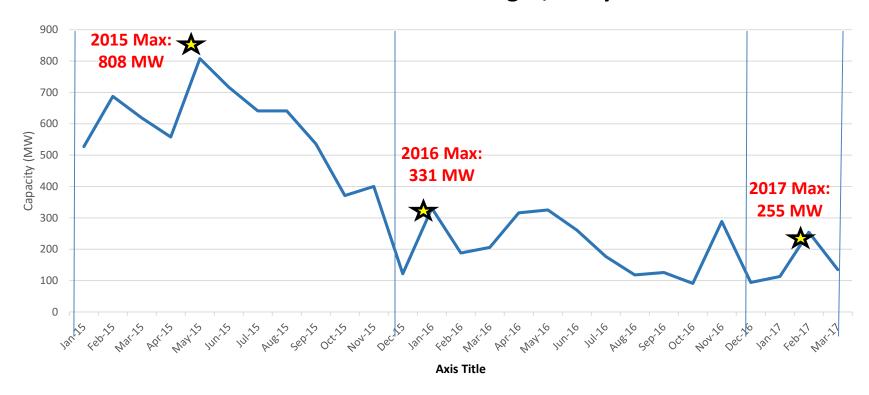
Source: National Grid Corporation of the Philippines Grid Operating Program revision 4

National Grid Corporation of the Philippines Grid Daily Operations Report, as of 31 March 2017



E. Overview of Performance – GENERATION

2015 – 2017 Forced Outages, Visayas

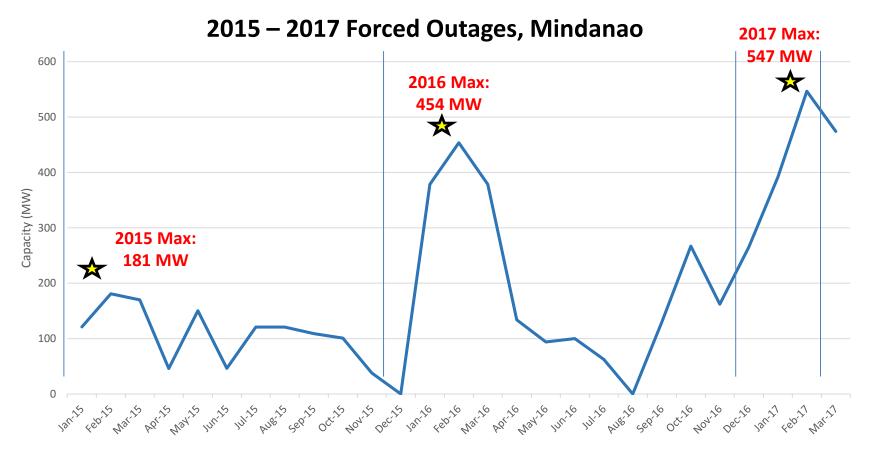


Dependable Capacity = 2,813 MW, as of 31 December 2016

Source: National Grid Corporation of the Philippines Grid Operating Program revision 4

National Grid Corporation of the Philippines Grid Daily Operations Report, as of 31 March 2017

E. Overview of Performance – GENERATION



Dependable Capacity = 2,684 MW, as of 31 December 2016

Source: National Grid Corporation of the Philippines Grid Operating Program revision 4

National Grid Corporation of the Philippines Grid Daily Operations Report, as of 31 March 2017

F. Overview of Performance – TRANSMISSION

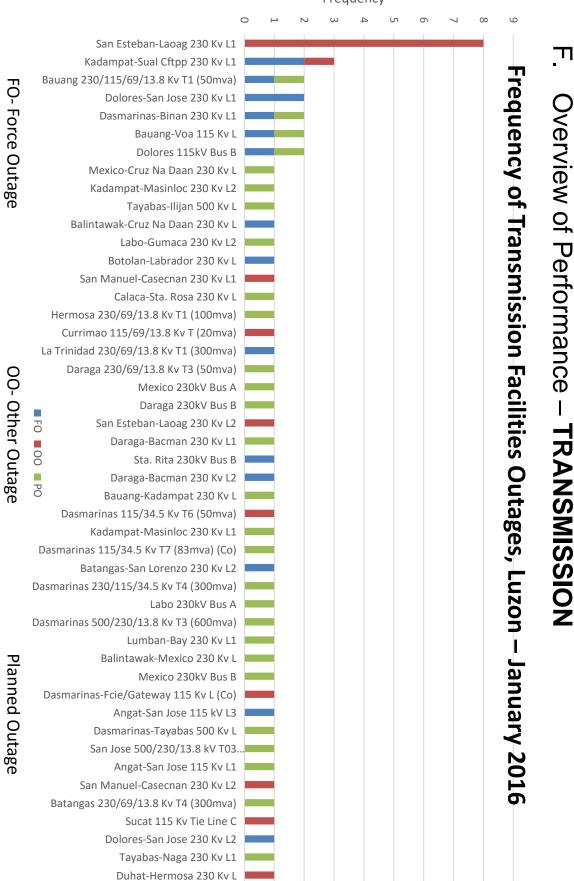
Frequency of Constraints on Transmission Lines (Based on Market Results), 2015

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Luzon (Ex-Ante)	0	43	41	6	75	233	99	11	43	43	2	6	602
Visayas (Ex-Ante)	17	45	84	25	116	353	183	79	74	49	9	24	1058
Total (Ex-Ante)	17	88	125	31	191	586	282	90	117	92	11	30	1660
Luzon (Ex-Post)	0	0	0	1	4	29	1	0	2	25	2	0	64
Visayas (Ex-Post)	14	0	33	17	30	96	62	59	21	3	2	30	367
Total (Ex-Post)	14	0	33	18	34	125	63	59	23	28	4	30	431

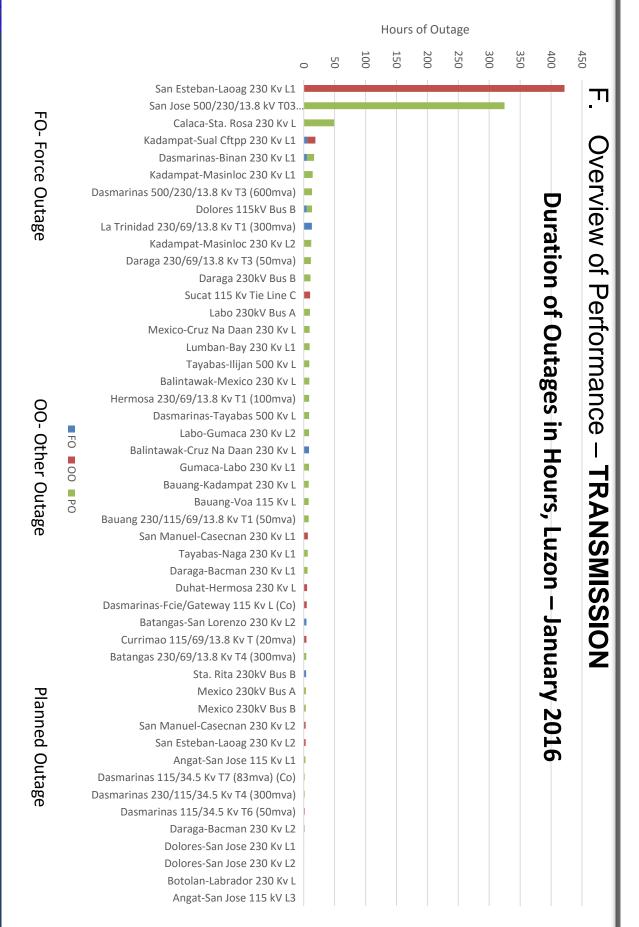
Source: 2015 Annual Market Assessment Report, PEMC



ntroduction



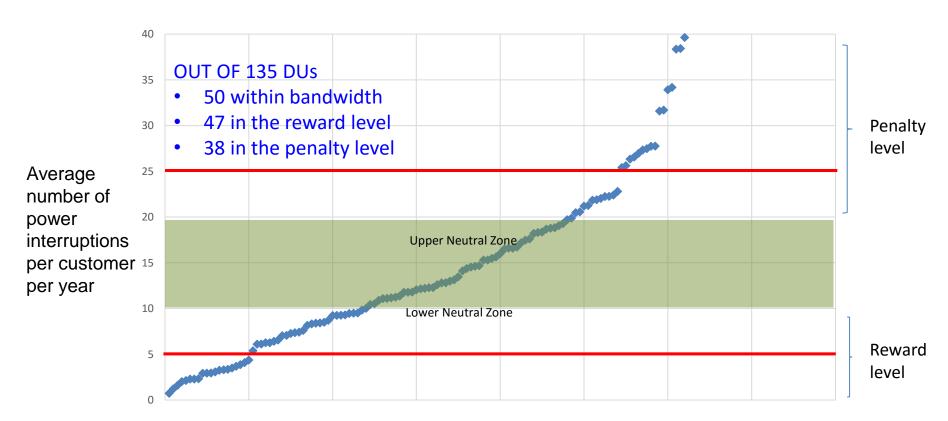
Gumaca-Labo 230 Kv L1



Introduction

Overview of Performance - DISTRIBUTION

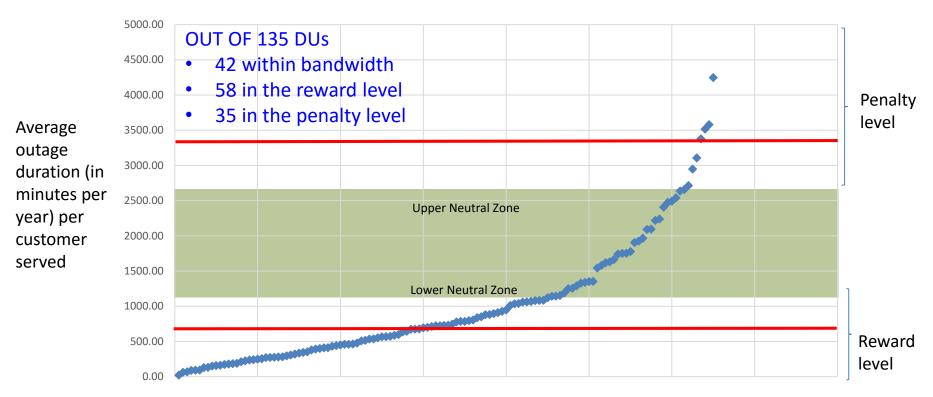
2015 SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI)



Data Source: Distribution Management Committee

Overview of Performance - DISTRIBUTION

SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI) 2015



Data Source: Distribution Management Committee

A. Title and Effectivity

- Department Circular No. DC2017-05-0008, entitled "Providing for the Policies and Guidelines on the Conduct of Performance Assessment and Audit for All Power Generation, Transmission and Distribution Systems and Facilities" was signed by the Secretary on 03 May 2017
- Published in The Manila Times on 23 May 2017 and in The Philippine Star on 24 May 2017; and
- Effective starting 24 May 2017.

B. Policy and Objectives

- Evaluate over-all performance and efficiencyto formulate policies that address any policy gaps
- ✓ Post-review of compliance
- Remove operational inefficiencies
- Identify systems of incentives and penalties
- Respond to technological advancement
- Adopt best practice, good governance and accountability
- Support socio-economic targets

B. Policy and Objectives

- ✓ PAA DOE tool for assessing overall performance of the industry participants
- Not intended to encroach on ERC, GMC, DMC authority to monitor and assess

C. Scope of Coverage

- ✓ All Power Generation Facilities owning/or operating Generation Facilities in the main grid and off-grid areas;
- ✓ All transmission Service Provider and System Operator in the main grid and off-grid areas; and
- All Distribution Utilities in the main grid and off-grid areas

Grid Power System



Load

74,154 GWh



- Residential Commercial
- Industrial
 Others



Distribution

23 PIOUs

100 ECs

2 LGUOUs



Transmission







31,501



20,053 ckt-km

Peak Demand:

13.272 GW

PIOUs - Private-Investor Owned Utilities

ECs - Electric Cooperatives **LGUOUs** - LGU-Owned Utilities

Generation

199 GenCos

21.42 Installed Capacity

90,798 Gross Generation





Nat Gas







Off-Grid Power System



Load

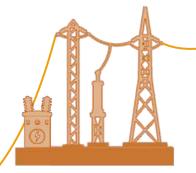


1,020.1 **GWh**

2015 Electricity Sales

- Residential
- Commercial
- Industrial
- Others





Transmission

ECs

MPCs

Distribution

3 **LGUOUs**

QTP

ECs - Electric Cooperatives - Multi-Purpose Cooperatives

LGUOUs - LGU-Owned Utilities **QTP** - Qualified Third Parties







170 **MVA**

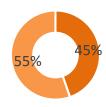


770 ckt-km

Generation

291 **NPC**

30 Non-NPC



406.1_{MW}

Total Installed Capacity

NPC

Non-NPC



Gross Generation



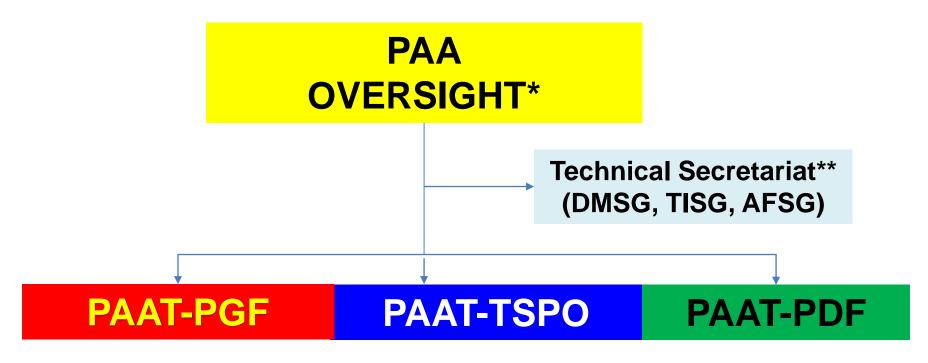
Hvdro

Source of Data: DOE; NPC



- C. Scope of Coverage Responsibilities of Electric Power Industry Participants
 - ✓ Timely and accurately provide data, reports, records and other information required for the PAA
 - ✓ Allow full accessibility/unrestricted access to their facilities to PAAT to conduct inspection of facilities
 - Allow conduct of testing, consistent with industry standards and practices, of any or all parts of the facilities;

D. Creation of Task Forces and Support Groups



- Performance Assessment and Audit on Power Generation Facilities (PAAT-PGF)
- PAAT on Transmission Service Provider/ Operator (PAAT-TSPO)
- PAAT on Distribution System Facilities (PAAT-DSF)

Notes:

- * Designated Undersecretary or Asst. Secretary
- ** Head EPIMB
- ** Members EUMB, REMB, EPPB, LS, AS, FS

D. Creation of Task Forces and Support Groups

PAAT-PGF

PAAT-TSPO

PAAT-PDF

Chairman: DOE Undersecretary or Asst. Secretary for Power

Members:

TransCo, GMC (Independent), PEMC, PEMC-MSC, PEMC-TC, NEA

Members:

TransCo, GMC (Independent), DMC, PEMC; PEMC-MSC, PEMC-TC, PEMC-PAC, NEA

Members:

NEA, DMC (Independent), TransCo, PEMC;

E. Responsibilities of the Task Forces



Determine priority areas and entities;



Establish audit procedures, parameters and protocol



Prepare and implement audit plans



Prepare audit reports – findings, recommendations, areas for improvement

F. Confidentiality and Ownership of Information and Findings

- All data, information and findings relevant to the conduct of this Performance Assessment and Audit shall be owned and for the exclusive use of the DOE.
- ✓ The results of Performance Assessment and Audit may be provided by the DOE to the ERC, for purposes of rulemaking and establishment and enhancement of standards.
- ✓ Pursuant to a non-disclosure agreement, all members of the task forces shall not use, disclose any information, data or findings other than for the purposes as identified under this Circular.

G. Institutionalization of Technical Audit

- once every three (3) years audit for each utility, or, as may be directed by the DOE.
- may be conducted by an independent third party and reputable Performance Assessment and Audit firms
- ✓ DOE to develop procedure on the accreditation or engagement of an independent third party auditor

III. Timeline

MAY 4, 2017

 Promulgation of DOE Circular No. 2017-05-0008

JUNE 24, 2017 –

• Effectivity of DOE Circular No. 2017-05-0008

3rd Week Aug 2017

• FGD on the Performance Assessment and Audit Plan

SEPTEMBER 2017 ONWARDS Pilot assessment and audit for priority areas

2018 ONWARD

- Continuing assessment and audit by Task Forces
- Development of accreditation guidelines for 3rd Party Independent Auditor
- Implementation of regular 3-year assessment and audit



Quality is doing it right when no one is looking

- Henry Ford

Thank You!



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