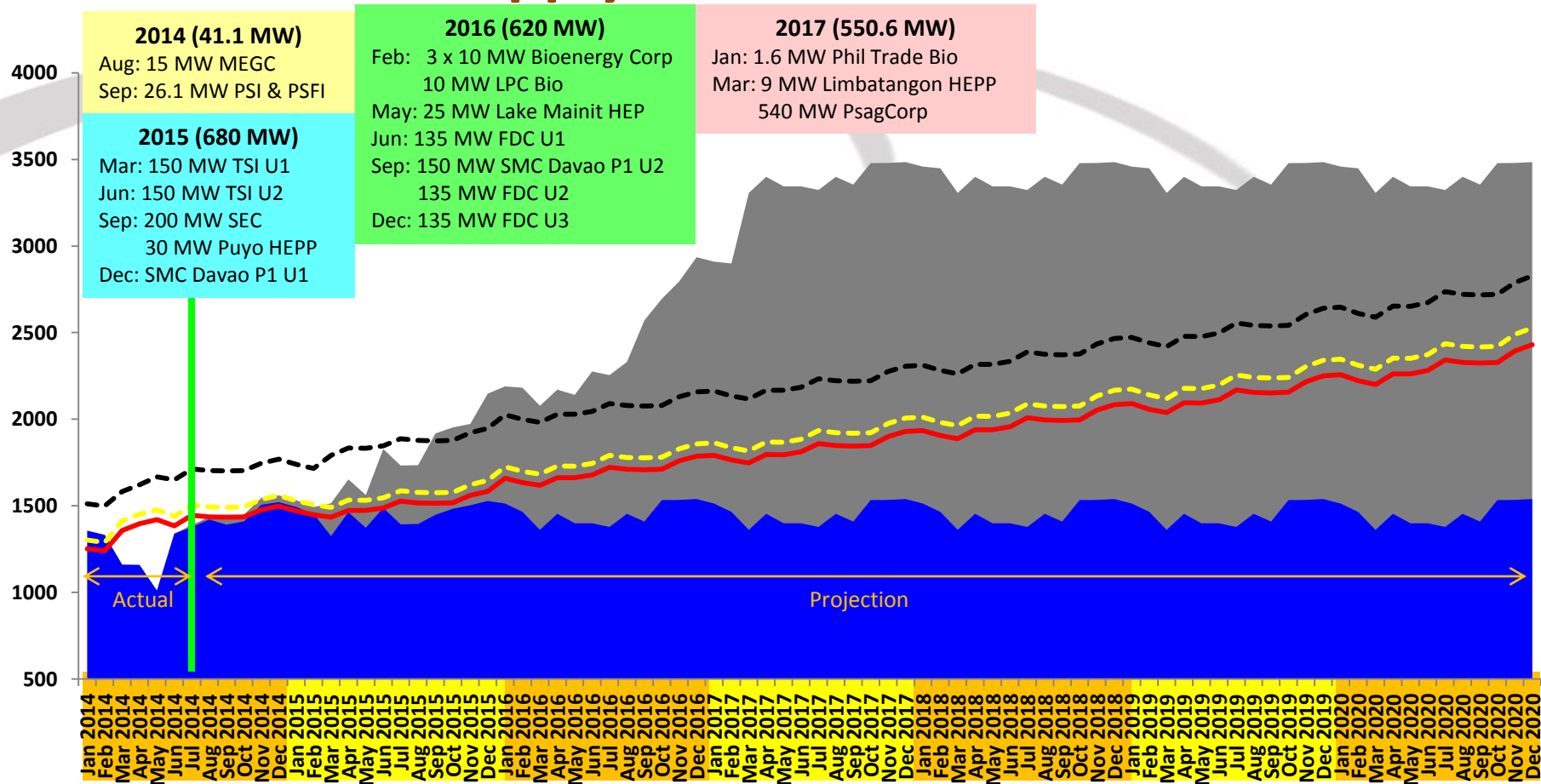




One-Stop Facilitation and Monitoring Center (OSFMC)

**For Renewable Energy Power Project
Applications in Mindanao**

Mindanao Supply-Demand Outlook 2014-2020



Notes

- Required Reserve Margin (RM) i.e. 4% regulating reserve and contingency and dispatchable reserve requirement
- 5.6 % peak demand growth rate resulted from observed 0.8 elasticity ratio of demand for electric power with national economic growth applied to 7 percent GDP growth rate (GR) target for 2014-2015.
- 12.8 % peak demand growth rate resulted from observed 1.6 elasticity ratio of demand for electric power with national economic growth applied to 8 percent GDP growth rate (GR) target for 2016
- 8 % peak demand growth rate resulted from observed 1 elasticity ratio of demand for electric power with national economic growth applied to 8 percent GDP growth rate (GR) target for 2017-2020
- Assumed 3.3 percent average forced outage of the total dependable capacity

Mindanao Power Situation Outlook 2014-2020

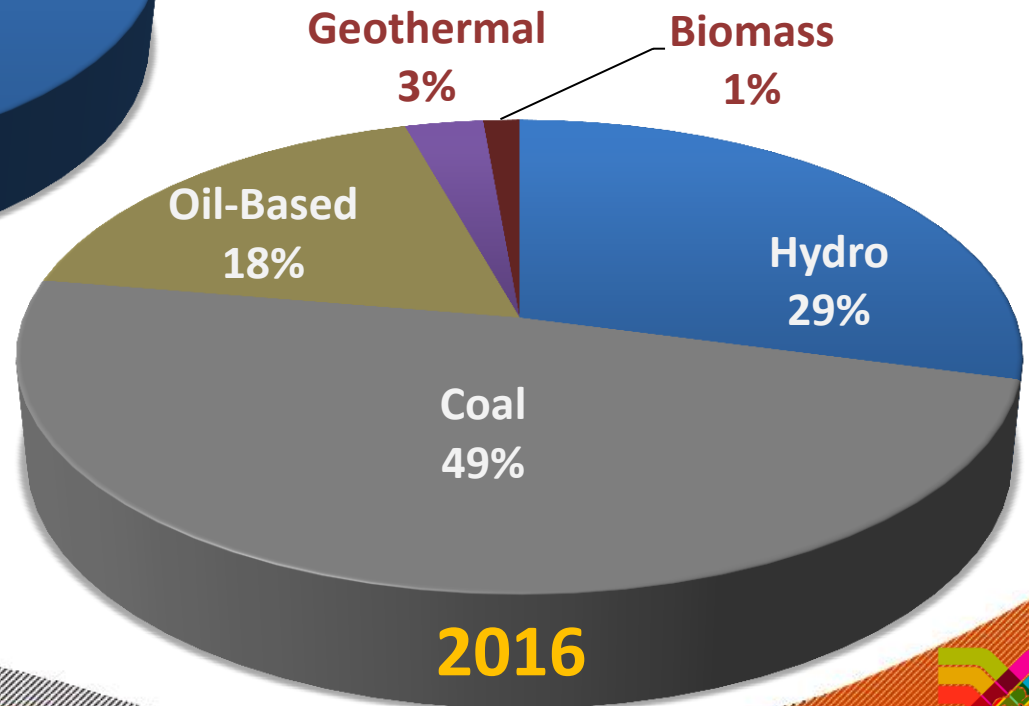
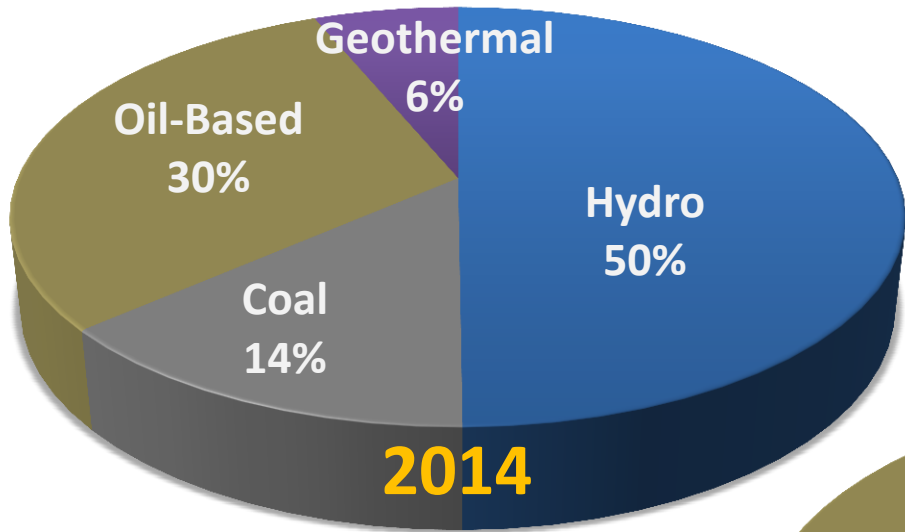
Year	Projected Available Capacity (MW)	Peak Demand (MW)	Peak Demand + Ancillary Reserves (MW)	Supply Excess / (Deficiency) w/out Reserves (MW)	Supply Excess / (Deficiency) w/ Reserves (MW)
2014*	1,010	1,420	1,690	(410)	(680)
2015	2,208	1,583	1,946	625	262
2016	2,996	1,786	2,157	1,210	839
2017	3,545	1,929	2,306	1,616	1,239
2018	3,545	2,083	2,466	1,462	1,079
2019	3,545	2,250	2,640	1,295	905
2020	3,545	2,430	2,827	1,115	718

* As of May 2014

Available Capacity: Based on List of Committed Power Projects as of May 31, 2014 (DOE)

Demand Growth Rate : 5.6% for 2014-2015
12.8% for 2016
8.0% for 2017-2020

Mindanao Power Energy Mix 2014-2016



	2014	2016	
RE	56%	33%	↓
Fossil	44%	67%	↑

Pending RE Power Project Applications in Mindanao (As of April 30, 2014)



115 projects
1129.82 MW potential capacity

Hydro Power



27 projects
277.50MW potential capacity

Solar Energy



8 projects
200MW potential capacity

Geothermal Energy



7 projects
92.25MW potential capacity

Biomass Energy

Total: **157 RE** projects facilitated by OSFPC
with completed permits by 2016 resulting to

1,699.57 MW potential capacity
available by 2020

RE Project Applications per Region

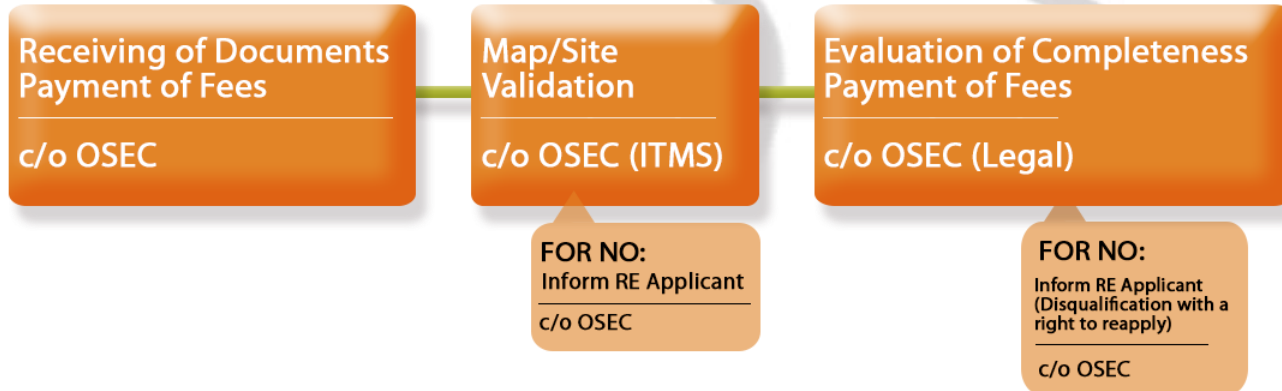
Region	No. of RE Project Applications				
	Hydro	Biomass	Solar	Geothermal	Total
IX	10	0	3	2	15
X	38	6	4	1	49
XI	28	0	4	2	34
XII	20	0	10	2	32
XIII	18	0	4	1	23
ARMM	1	1	2	0	4
Total	115	7	27	8	157

RE Projects in MW per Region

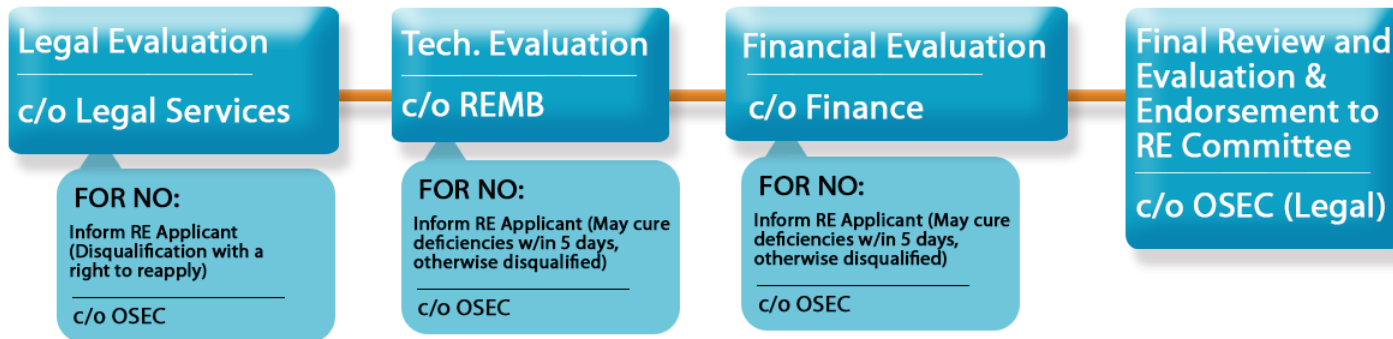
Region	RE Power Project Applications in MW				
	Hydro	Biomass	Solar	Geothermal	Total
IX	34.20	-	21.00	70.00	125.20
X	247.62	77.25	54.00	20.00	398.87
XI	354.25	-	65.00	-	419.25
XII	282.40	-	69.50	80.00	431.90
XIII	211.05	-	31.00	30.00	272.05
ARMM	0.30	15.00	37.00	-	52.30
Total	1,129.82	92.25	277.50	200.00	1,699.57

Renewable Energy Service Contract (RESC)

PHASE 1: Receiving of Documents



PHASE 2: Evaluation of Documents



PHASE 3: Awarding/Negotiation of Contracts



Environmental Compliance Certificate (ECC)

1



Applicant submits Environmental Impact Statement (EIS) and other requirements

4



EIARC

Case Officer convenes Environmental Impact Assessment Review Committee (EIARC) to review application

2



EMB Records Officer

EMB Records Officer receives documents and forwards it to Environmental Assessment Division

Environmental Assessment Division

5



EIA Chief

EIARC submits report; EIA Chief reviews process documentation and reports of EIARC

3



Applicant pays filing and processing fees to EMB Cashier and application is submitted to screening officer

6



EMB Director reviews report and documentation, approves or denies ECC and signs letter

7



EIA Division releases approved/denied Environmental Compliance Certificate

Water Permit Application (WPA)

1



SCREENING

WPA Form and Notices filled up and notarized
Basic Requirements completed
Coordinates of water source determined
Reference Numbered assigned

6



FIELD INVESTIGATION

Site ocular inspection and subsequent reporting c/o DPWH Engineering District Office/NIA Provincial Office/Water Rights Investigator/NWRB Staff (if no report provided)

2



PAYMENT

Applicant pays corresponding WPA filing fees (municipal, irrigation, communal, power generation, fisheries, livestock raising, industrial, recreation, and others)

7



PROTEST

30 days allotted for affected parties for opposition of WPA
Oppositor to submit opposition letter (w/fee) to NWRB

3



FILING

Submission of accomplished WPA forms
WPA routed to Water Rights Division

8



EVALUATION

NWRB to determine the water source if it is surface water, spring, or deepwell source.

4



APPLICATION ENDORSEMENT POSTING OF NOTICES

Endorsement letter prepared by Permits Section
WPA endorsed to DPWH Engineering District Office
Letter prepared for the posting of notices of WPA

9



RECOMMENDATION AND APPROVAL

WPAs are evaluated and recommended to the board
WPAs submitted to Dir. Liongson of NHRC for review
Approval of WPAs through the Executive Director

5



MAILING OF ENDORSEMENT AND NOTICES

Records section mails the endorsement letter and request letter for posting of notices to the agencies

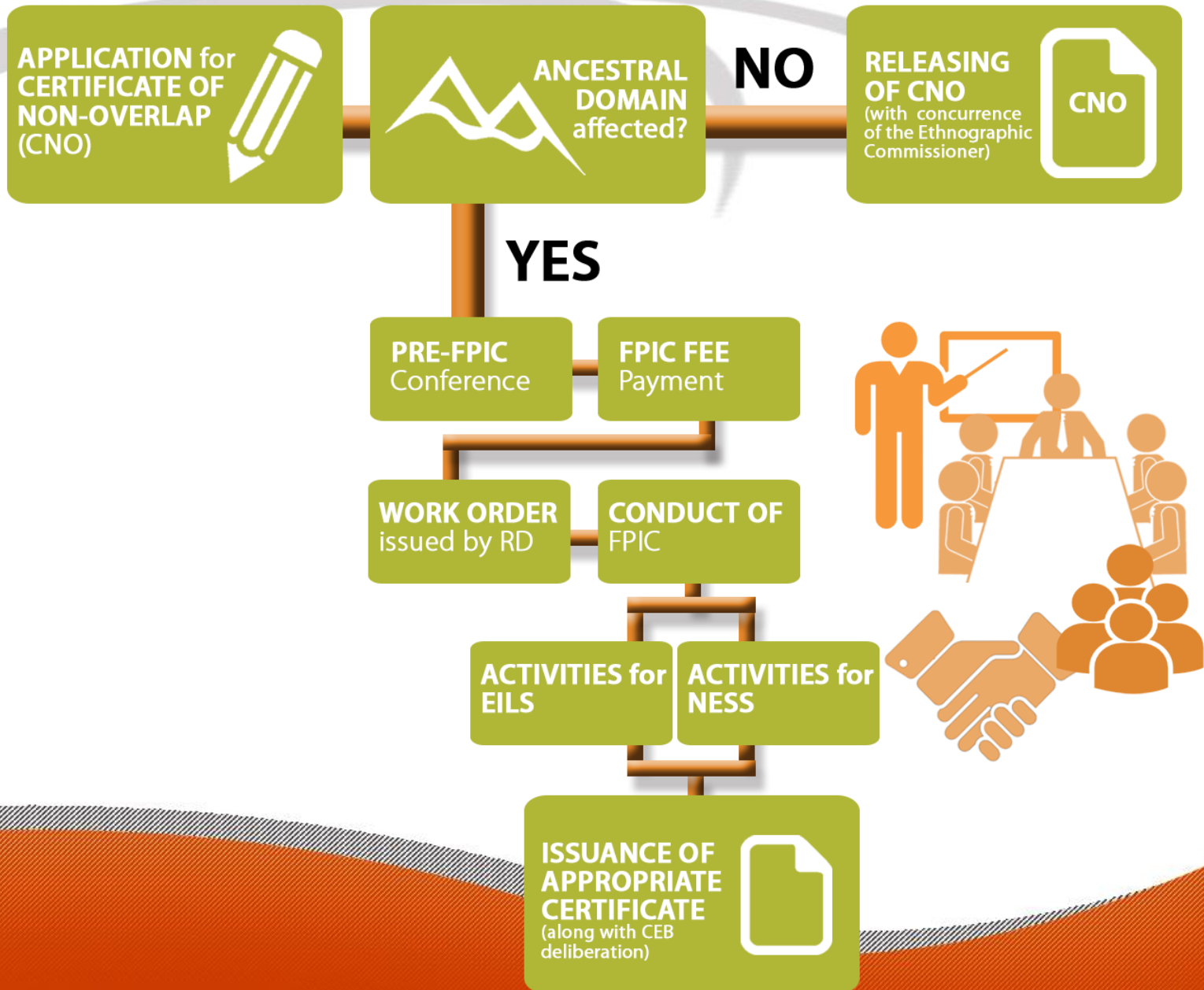
10



RELEASING OF WATER PERMIT

Staff assigns water permit number to applicant
Billing section computes annual water charge
WRD staff prepares water permit
Water permit signed by the Executive Director
Water Permit is released after applicant pays charges

Free and Prior Informed Consent (FPIC)



One-stop Facilitation and Monitoring

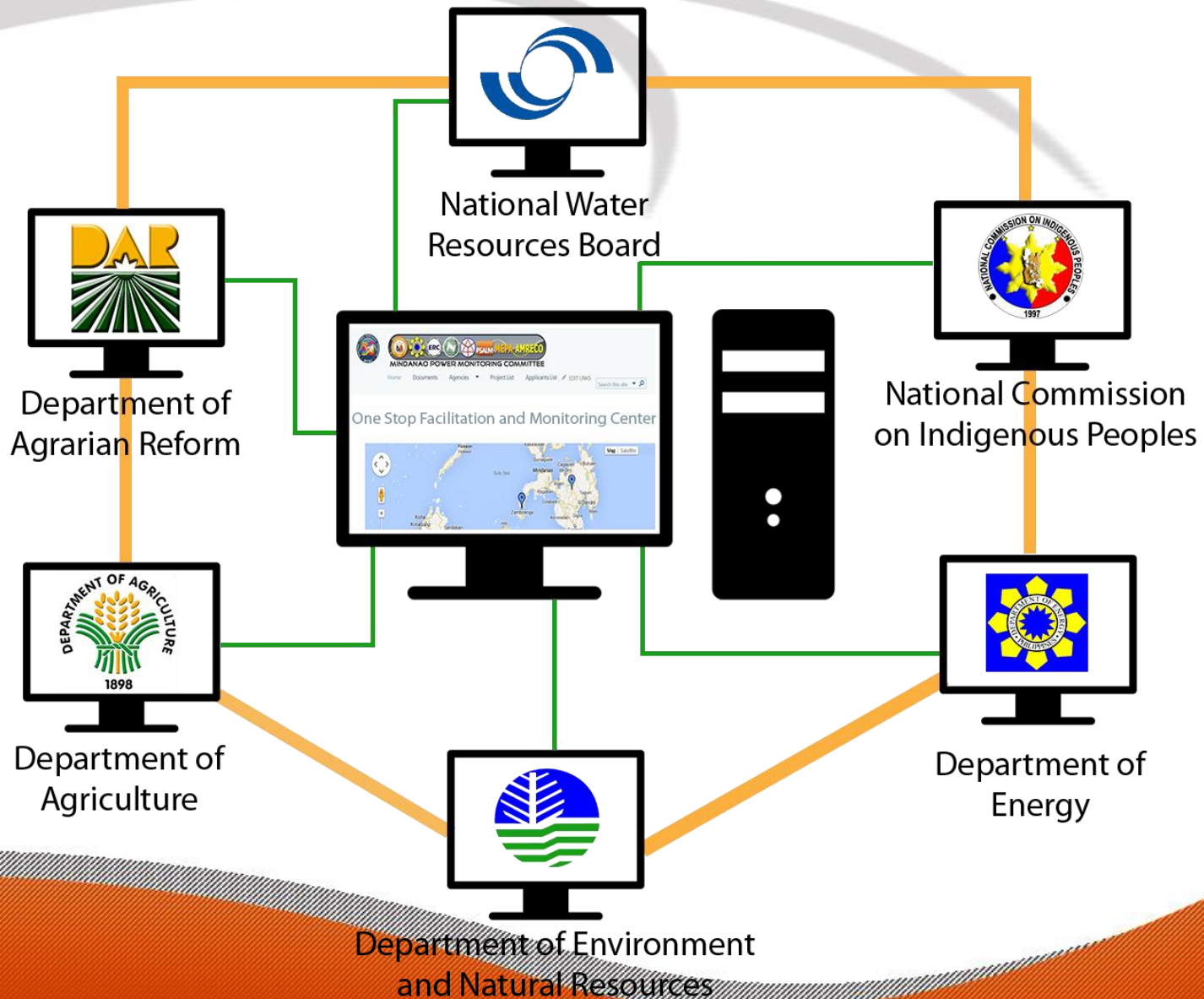
Center

- The MPMC has worked for the establishment of web-based **One-Stop Monitoring and Facilitation Center** for RE projects,
- Implemented in partnership with DOE and key agencies involved in the approval of RE power projects such as DENR, NCIP, DA, DAR, NWRB, as well as LGUs, among others.
- The virtual One-stop Processing and Facilitation Center works to accelerate processing and approval time for RE power project applications in Mindanao, which currently takes an average of **3-5 years** timeline and cut it down to **1-2** years.
- This measure will prioritize a total of pending **157** RE applications (mostly small hydro) with aggregate of **1,699.57MW of clean and sustainable** potential capacity targeted for approval on or before 2016.

Goals

- Help sustain favorable energy mix for Mindanao by *fast-tracking approval process* of Renewable Energy (RE) power projects
- Deployment of at least **200MW** additional RE sources per year between 2016 and 2020

One-stop Shop Framework



Advantages of the One-stop Facilitation and Monitoring Web Portal for permitting agencies

Before



Project applications cannot be seen across agencies in one platform

Tracking and monitoring of project application status done manually

Extended timeline in permitting process resulting to additional costs



Project proponents need to go through each office/agency to check status and feedback

After



Seamless Integration and Interfacing between and among permitting agencies to facilitate and accelerate processing

Agencies and proponents can save on cost by doing real-time online updating of status



One stop facilitation and monitoring hasten permitting process



Faster approval means more RE capacities in the energy mix

Advantages of the One-stop Facilitation and Monitoring Web Portal for project proponents

Before



Permitting Process takes 2-5 years at max

Timeline from permitting to construction of power plants takes 5-7 years



Proponents need to set aside at least 5 million pesos to speed up application process

Loss of 5 million pesos per MW per month for the project to go beyond scheduled completion

After



Processing time for permits reduced to 1-2 years



Proponents can save on cost and speed up application process and avoid unnecessary delays



More RE improves the energy mix and lessen exposure to environmental and forex costs attendant to fossil-based plants



MinDA

Integrating Mindanao.

Thank You.

