



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ENVIRONMENTAL MANAGEMENT BUREAU

AIR QUALITY MONITORING IN CENTRAL LUZON – PHILIPPINES

ENVIRONMENTAL MANAGEMENT BUREAU

BILLY WILLIAM G. FRANCO

The 14th Annual Asia Pacific Mercury Monitoring Network (APMMN) Partners
Meeting

December 8-12, 2025

Taipei, Taiwan

Hg Wet Deposition Sampler

Clarkfield, Mabalacat City, Pampanga
Donated in CY 2018

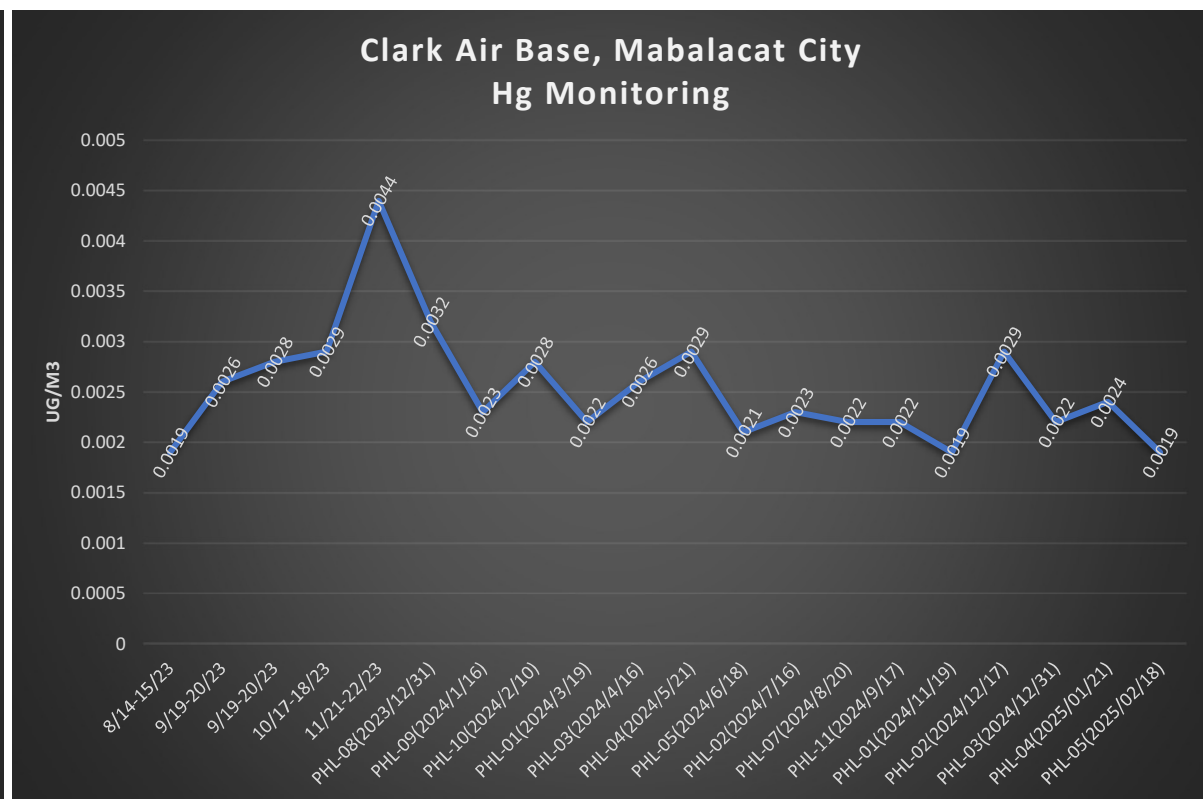
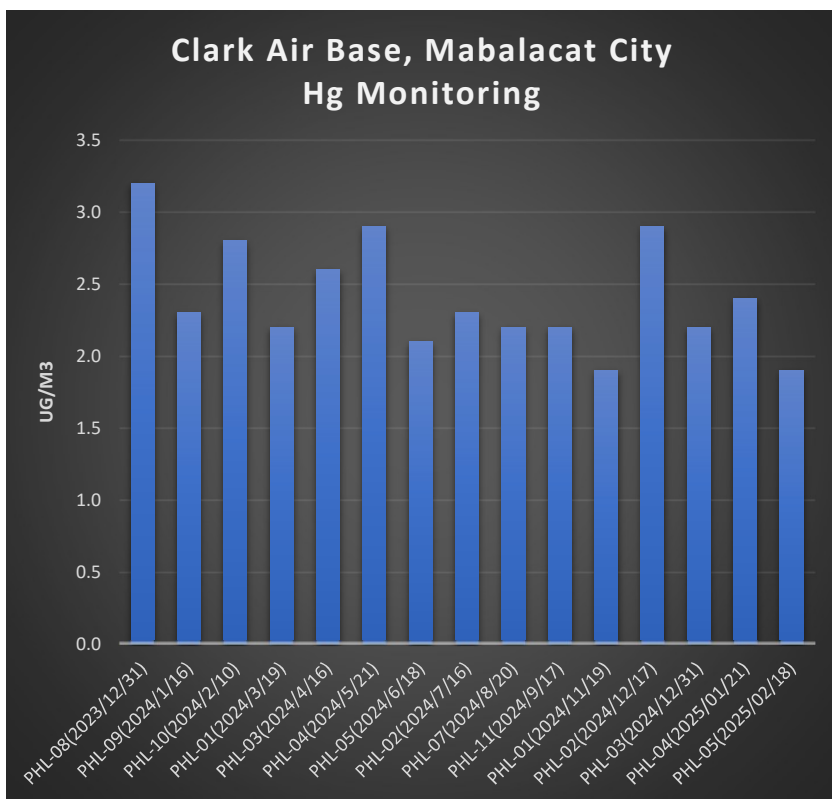


Location Hg Wet Deposition Sampler from nearest Coal Fired Power Plant



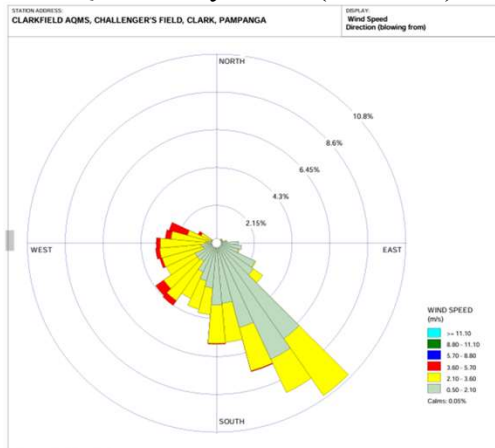
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Hg monitoring results from CY 2023 – 1st quarter of CY 2025

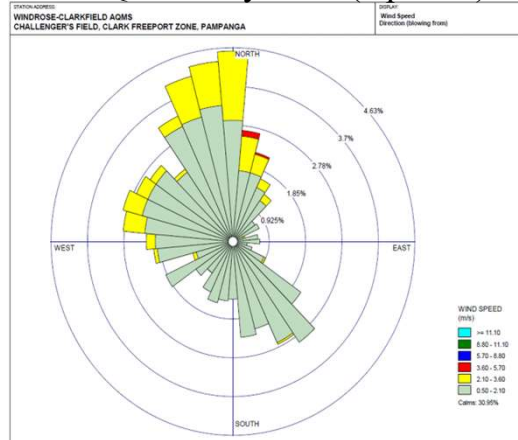


Wind Direction in Clarkfield AQMS – 1st, 2nd, & 3rd quarter of CY 2025

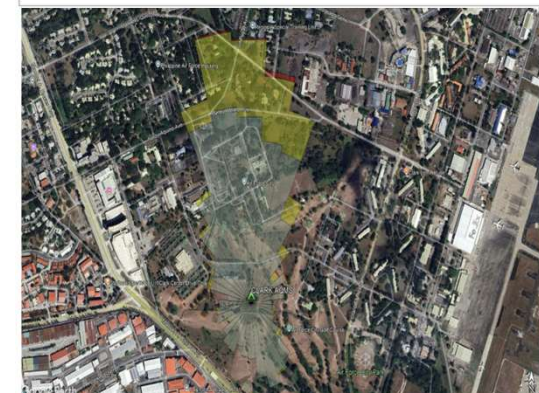
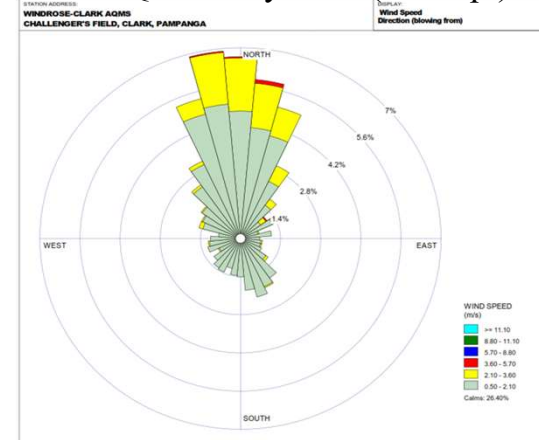
1st Quarter Cy 2025 (Jan-Mar)



2nd Quarter Cy 2025 (Apr-Jun)



3rd Quarter Cy 2025 (Jul-Sept)



List of Coal-Fired Power Plant in Central Luzon

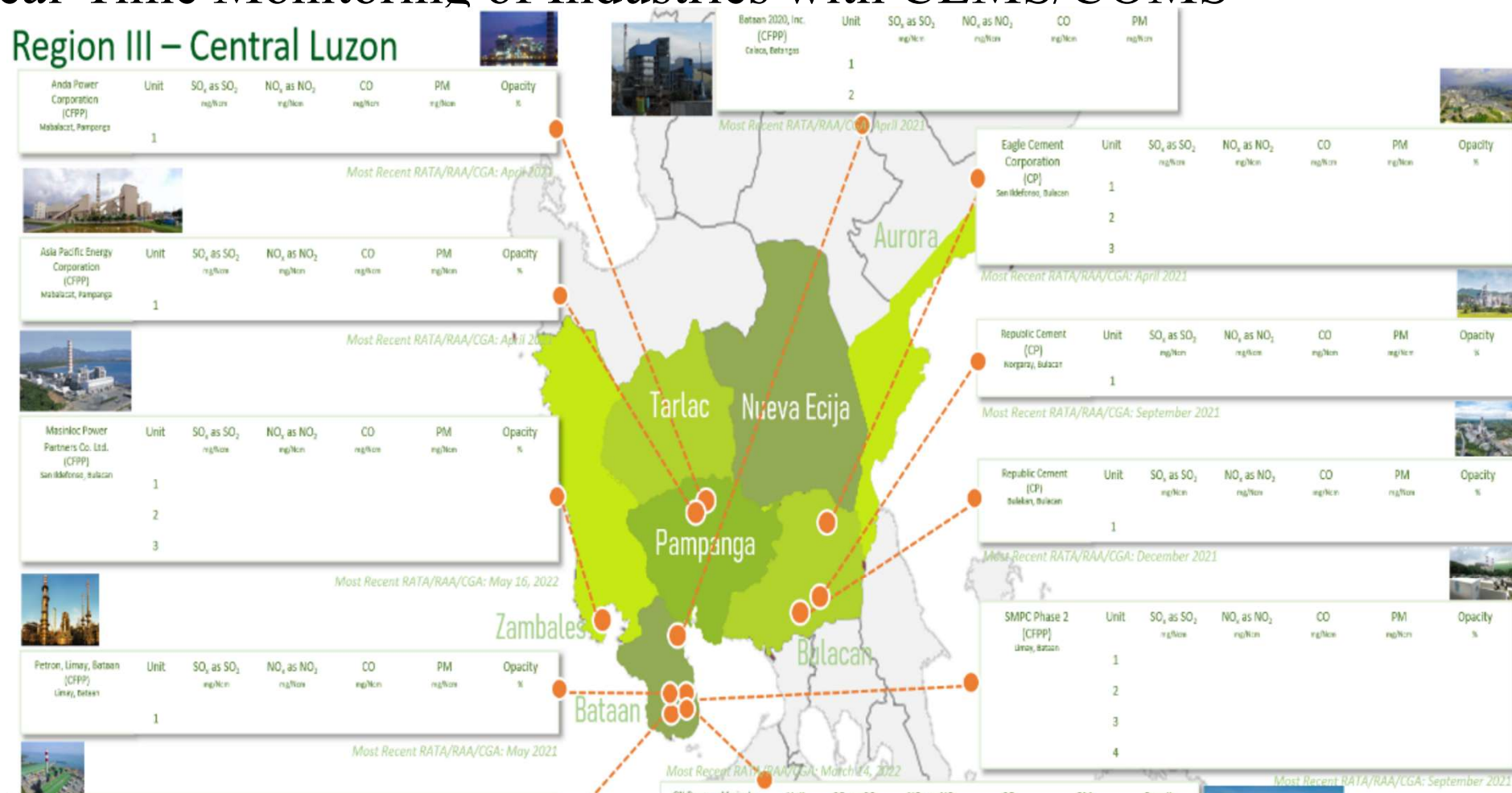
Province	Company Name	Address	Fuel
Pampanga	Anda Power Corporation	TECO Industrial Park, Mabalacat City, Pampanga	Coal
	Asia Pacific Energy Corporation	TECO Industrial Park, Mabalacat City, Pampanga	Coal
Bataan	GNPower Dinginin Ltd Co.	Sitio Dinginin, Brgy Alasasin, Mariveles, Bataan	Coal
	GNPower Mariveles Energy Center LD	Brgy. Alasasin, Mariveles, Bataan	Coal
	Limay Power Inc.	Brgy. Lamao, Limay, Bataan	Coal
	Petron Corporation	Brgy. Alangan, Limay, Bataan	Coal
	Mariveles Power Generation Corp.	Brgy. Biaan, Mariveles, Bataan	Coal
Zambales	Masinloc Power Co. Ltd.	Brgy. Bani, Masinloc, Zambales	Coal
Bulacan	United Pulp & Paper Co. Inc.	Brgy. Iba-Este, Calumpit Bulacan	Coal

Real-Time Monitoring of Industries with CEMS/COMS



Real-Time Monitoring of Industries with CEMS/COMS

Region III – Central Luzon



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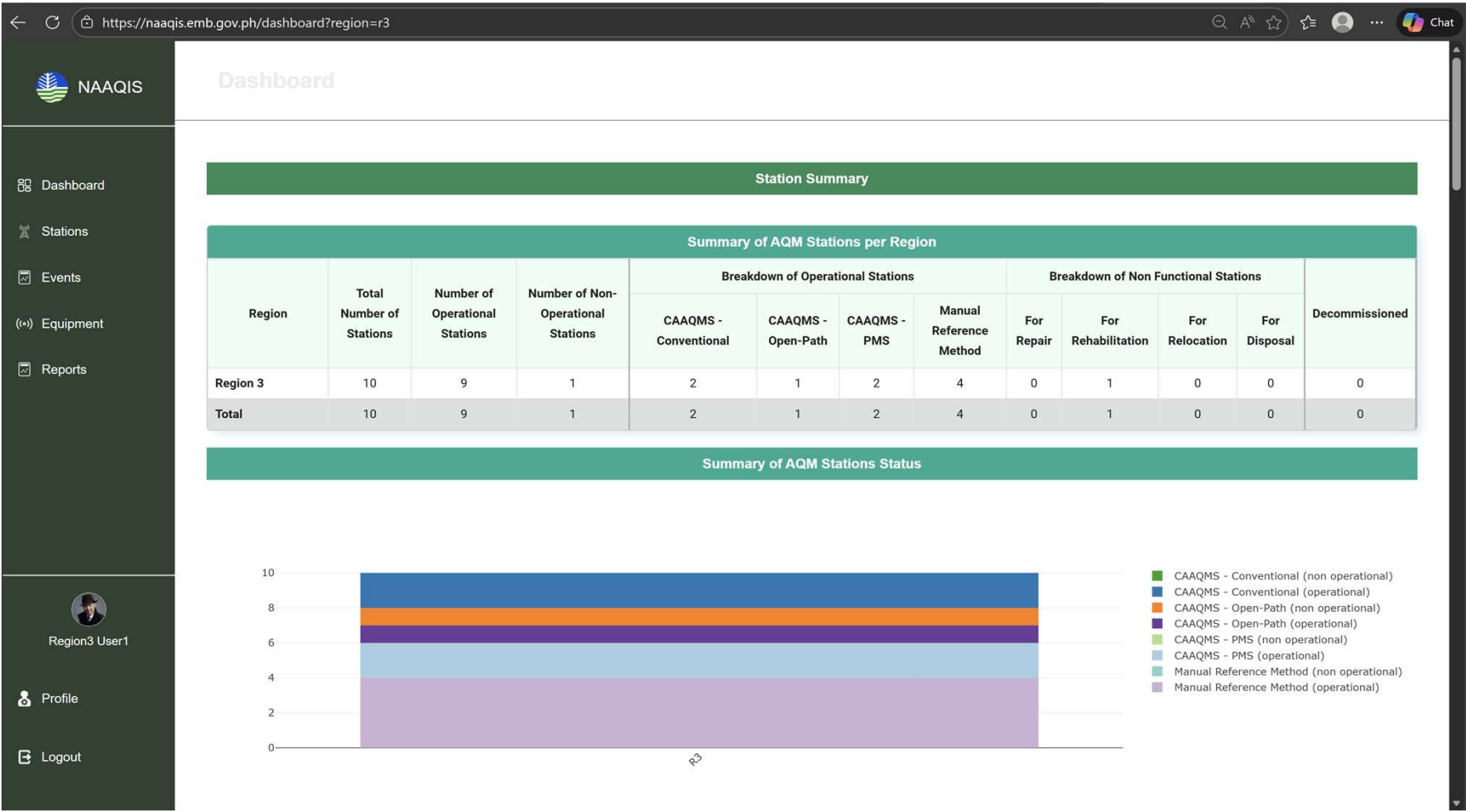
Real-Time Monitoring of Industries with CEMS/COMS

Department of Environment and Natural Resources
Environmental Management Bureau R-III

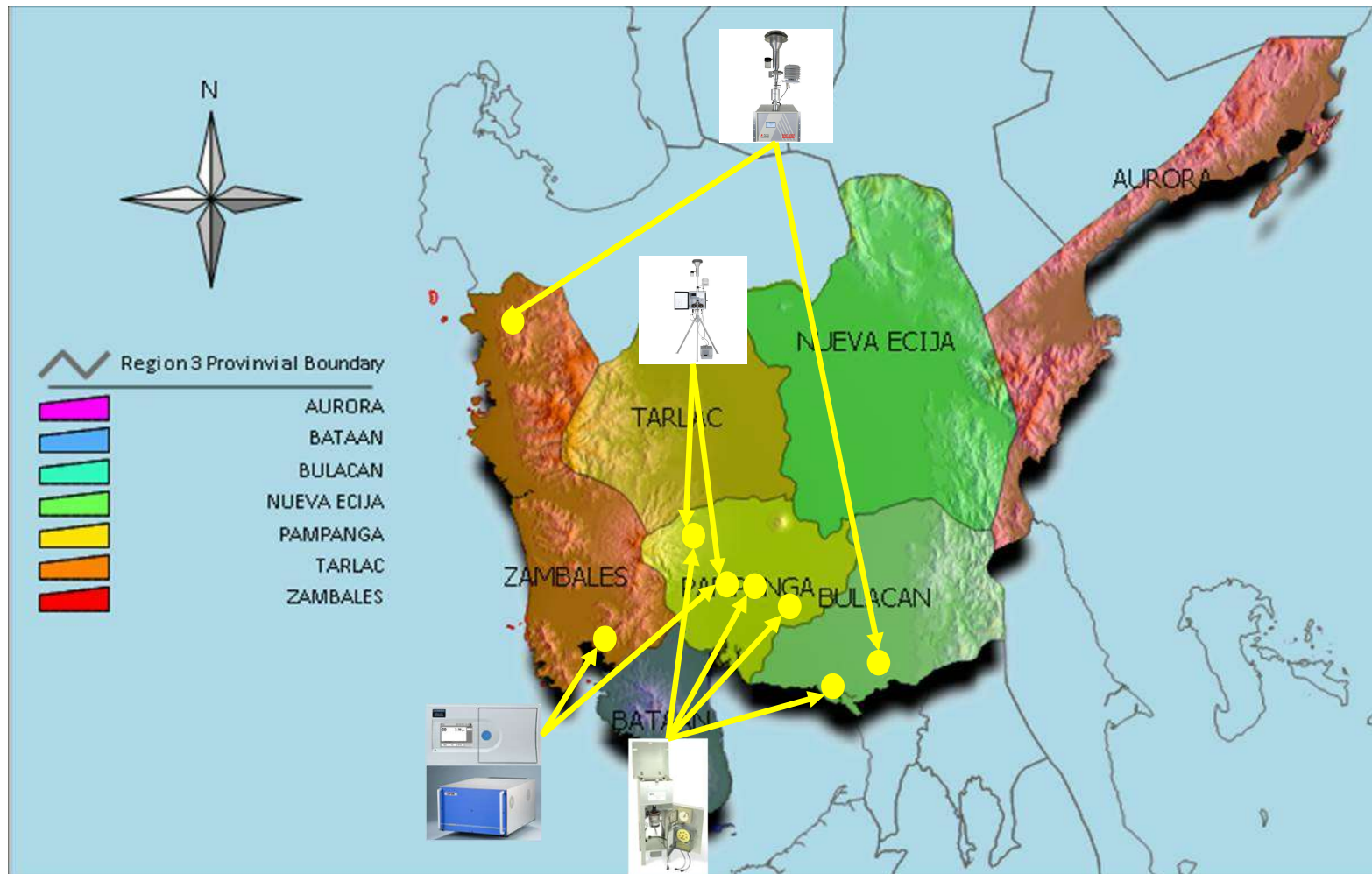
STATIONARY SOURCE EMISSION MONITORING (CEMS/COMS)



National Ambient Air Quality Integrated System (NAAQIS)



Air Quality Monitoring Stations in Central Luzon



Station name:

1. San Fernando AQMS
2. San Simon AQMS
3. Clarkfield AQMS
4. SBMA AQMS
5. Zambales AQMS
6. Meycauayan City AQMS
7. Bocaue Station
8. Mel-Vi Station

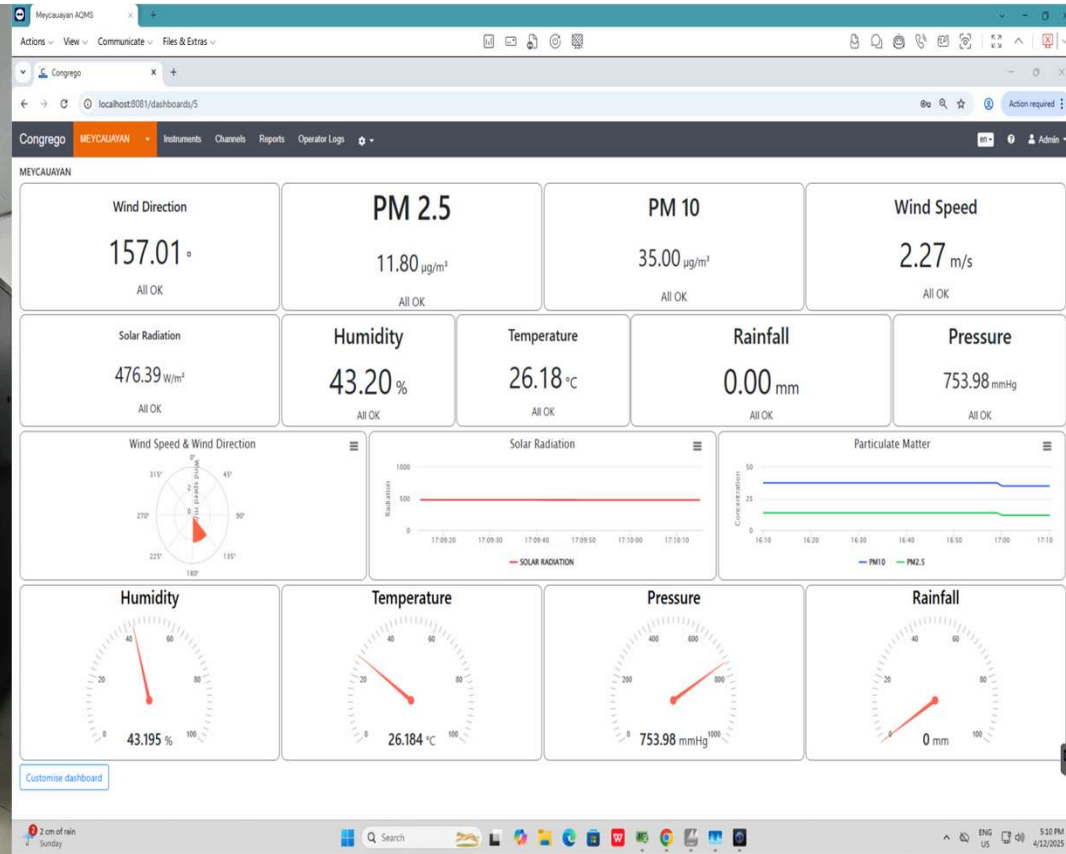
Compositions:

- 4 units BAM-1020
- 2 units E-BAM Plus
- 4 units High Volume air Sampler
- 2 units Horiba (SO₂ and CO)
- 2 units AR500s

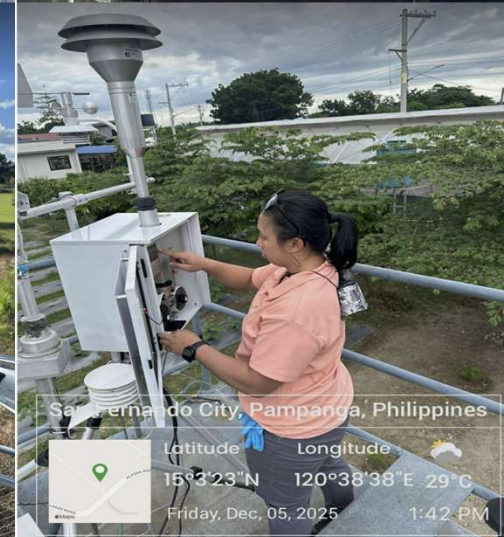


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Air Quality Monitoring Stations in Central Luzon – Meycauayan City AQMS



Sampling Activities



Ways Forward

- Expansion of Hg monitoring in Luzon, Visayas and Mindanao
- Expand Hg Deposition Monitor in Luzon, Visayas and Mindanao
- Capacity Development for EMB Laboratory Analysis on Hg wet deposition samples
- Formulation of Guidelines Values for ambient Hg



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Thank You For Your Attention

DENR EMB Central Office &
EMB Central Luzon