

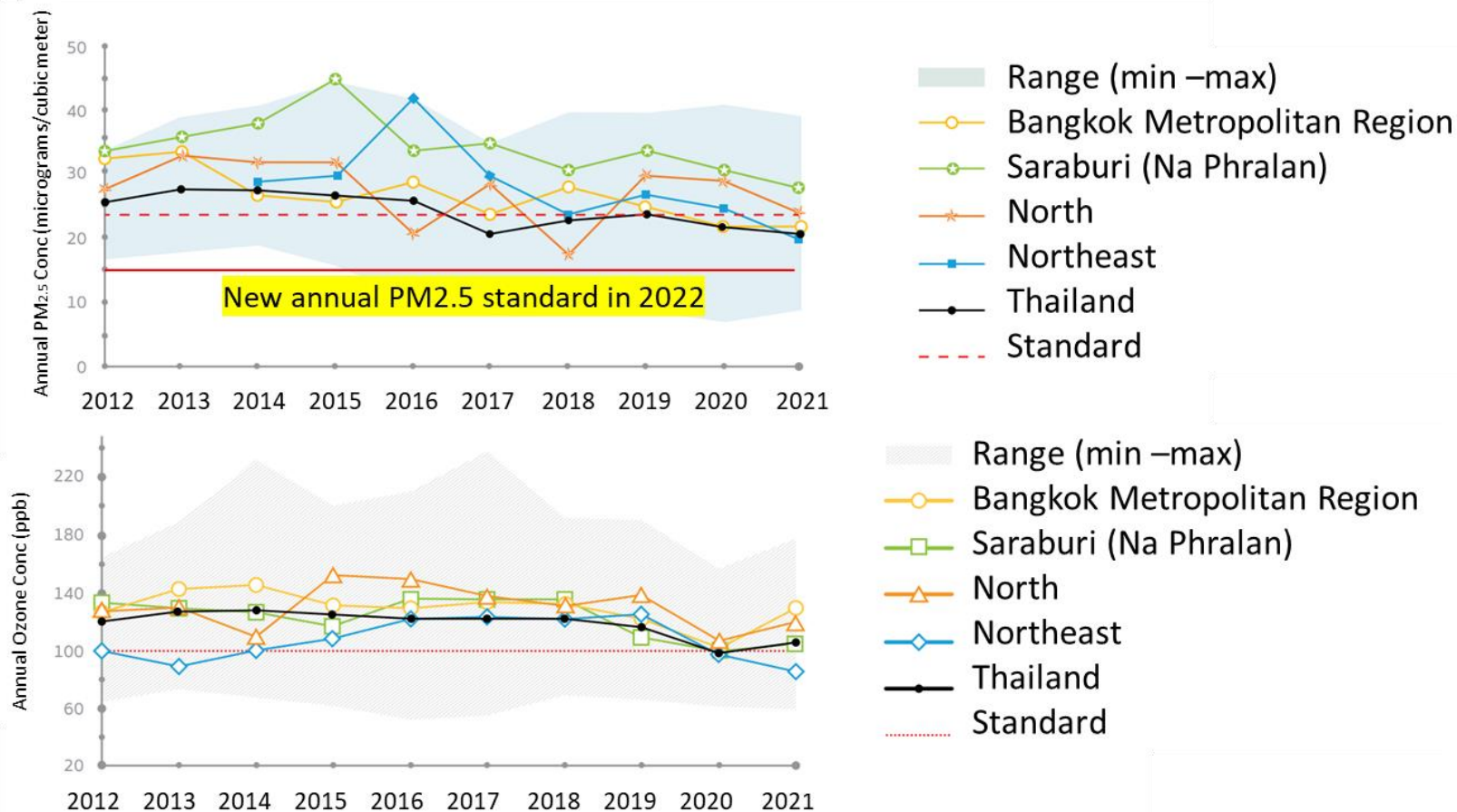
Technology for Air Pollution Control, Thailand

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Current Situation of Ambient Air Quality in Thailand

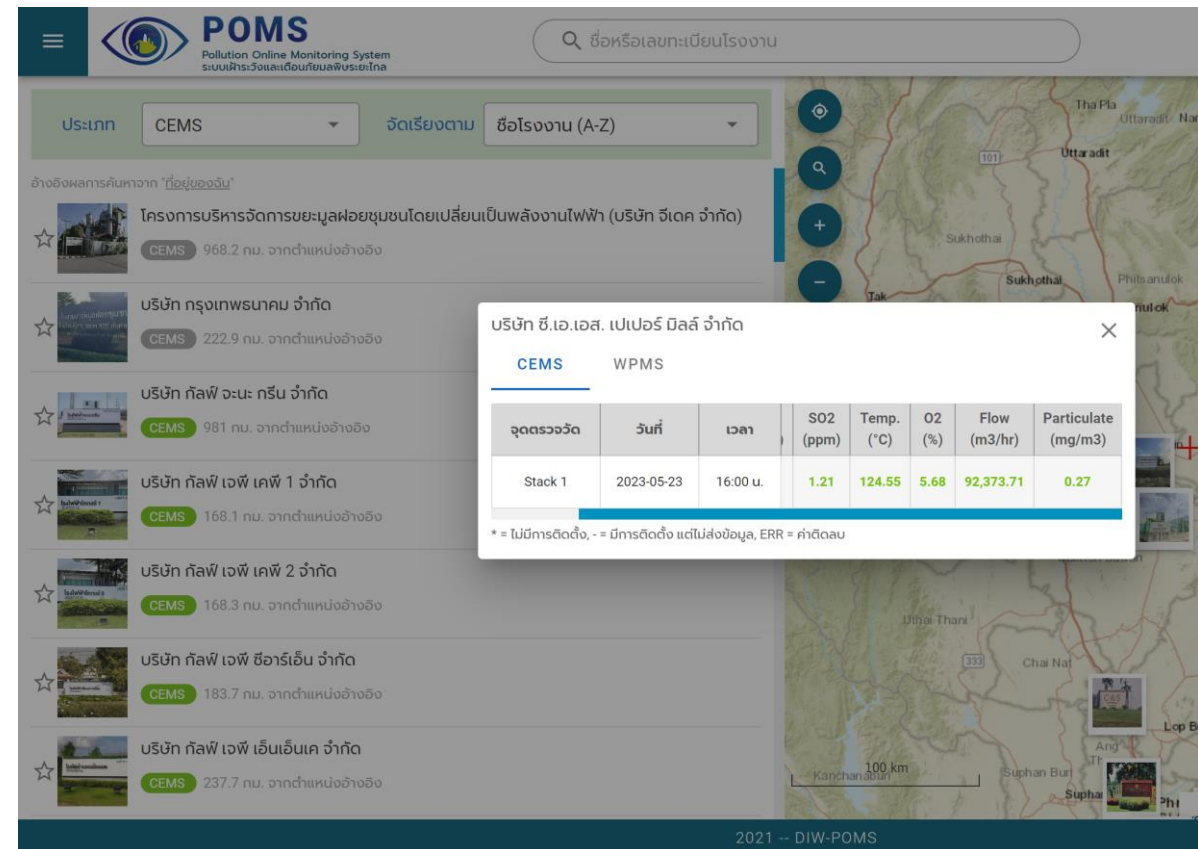


- Criteria air pollutants
- PM_{2.5} (PM₁₀ in some area) and Ozone are still problems in Thailand
 - Others (NO_x, SO_x, CO) are well controlled

Emission Control Technology in Thailand

Industrial Emission Control

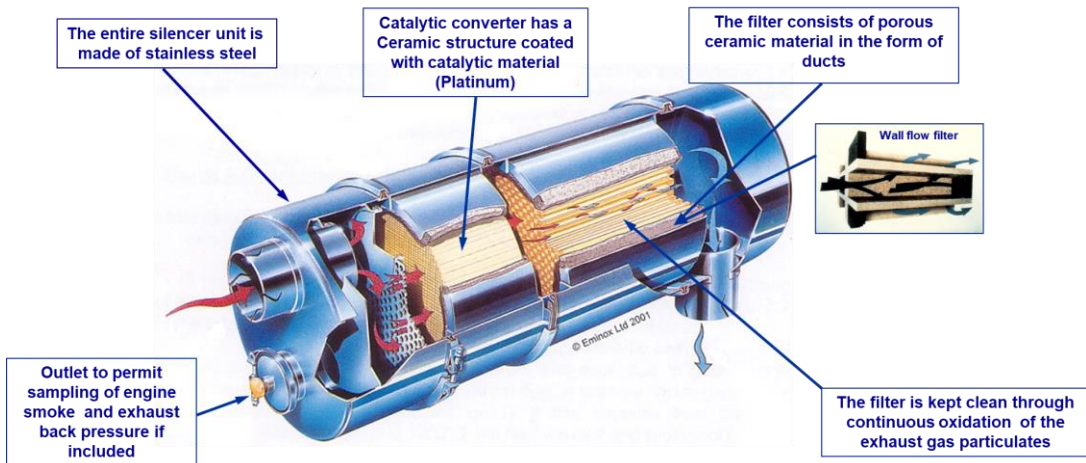
- Continuous Emission Monitoring System (CEMs)
 - Factories under Dept. of Industrial Works
 - June 2023 for new industries
 - June 2024 for existing industries
- Technology
- Maintenance



Source: Thai DIW (2023)

In-use Diesel Vehicles

Basic Principles Diesel Particulate Filter (DPF)



Euro II – Euro III



Parameters	Before DPF	With DPF	% Reduction
Black smoke (%)	9.7	0	-100
PM (mg/km)	60.53	10.08	-83
PN (Number)	1,566,518	51,277	-96
CO (mg/km)	645.22	15.64	-97
HC (mg/km)	186	74.95	-60
NOx (mg/km)	1,260.92	1,175.67	-7


Source: Thai PCD (2023)

Discussion (Personal Opinion)

- Continuous Emission Monitoring System (CEMs)
 - Innovativeness: Medium
 - Affordability: High cost but apply to only factories under DIW
 - Availability: Yes
 - Status of commercialization: Yes
 - Main Problems: Technology and Maintenance
- Diesel Particulate Filter
 - Innovativeness: Medium
 - Affordability: High cost (need support)
 - Availability: Yes
 - Status of commercialization: Yes
 - Main Problems: Limitation of vehicle condition (possible for good maintenance & Euro II)



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THANK YOU