Technical Solutions Monitoring

Chawaphon Chailertwanich

Energy & Environment Strategy Office

HORIBA, Ltd

HORIBA Measurement technology that contributes to air pollution control and CO2 capture.

Mr.Chawaphon Chailertwanich

Sale Manager, Horiba (Thailand)

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Overview

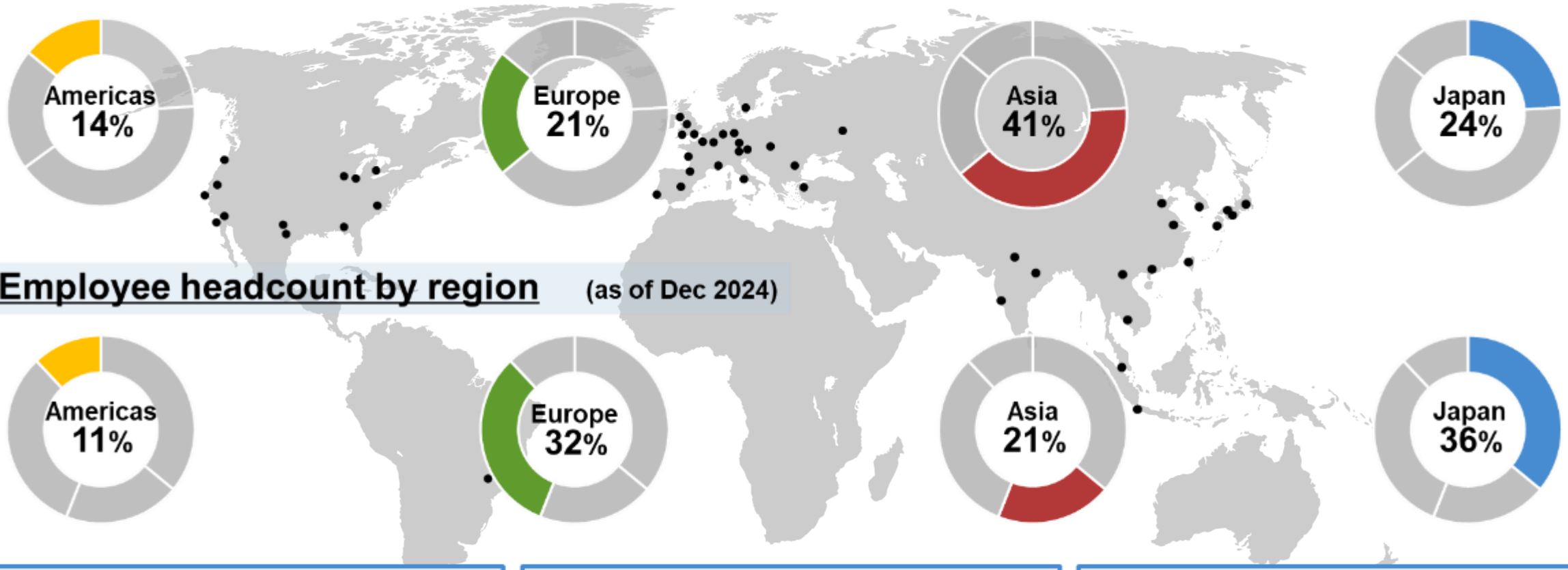
Line of Business	R&D, Manufacturing, Sales, Services of analysis and measurement equipment
Head Office	Kyoto, Japan
Founded	October 17, 1945
Incorporated	January 26, 1953
Net sales	317.3 BJPY (FY2024)
Number of Employees	8,955 (FY2024)
Chairman & Group CEO	Atsushi Horiba
Fiscal Year End	December 31

Chairman & Group CEO
Atsushi Horiba

Global Network

Sales by region (as of Dec 2024)

● : Major business hubs



Employee headcount by region (as of Dec 2024)

Number of companies (as of Dec 31, 2024) **47**

Overseas sales ratio (as of Dec 31, 2024) **76%**

Foreign employee ratio (as of Dec 31, 2024) **64%**

*Except for an equity-method affiliate

HORIBA Air Quality Monitoring Line-up

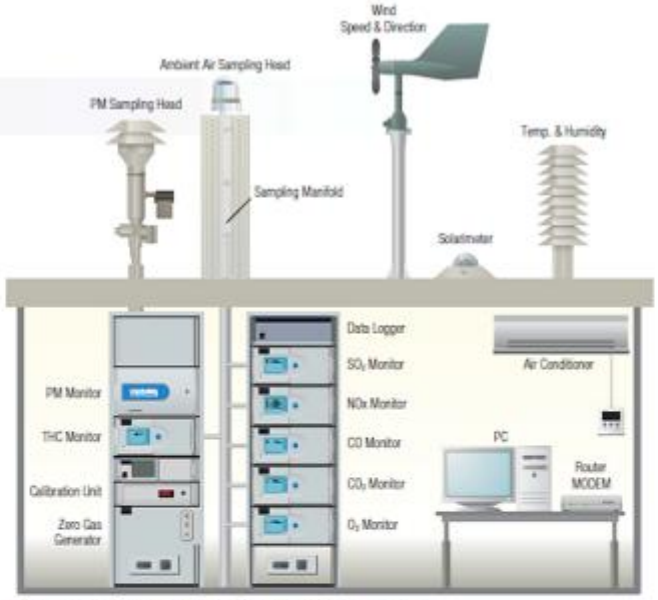
Applications

- Ambient air quality monitoring
- Greenhouse gas (GHG) research
- Vegetable factory

2 types of stations are available

Fixed Station

Mobile Station



Example of Air Quality Monitoring Station (AQMS)

Lineup:

NOx Monitor: APNA-380

SO_2 Monitor: APSA-380

CO Monitor: APMA-380

CO_2 Monitor: APCA-370

O_3 Monitor: APOA-380

THC Monitor: APHA-380

PM2.5/10 Monitor: APDA-372

Continue Particle Monitor with X-ray Fluorescence PX-375

Continuous analysis of PM2.5, PM10 or TSP, mass and the elemental concentration.
Sampling and the elemental analysis time : 30min +α

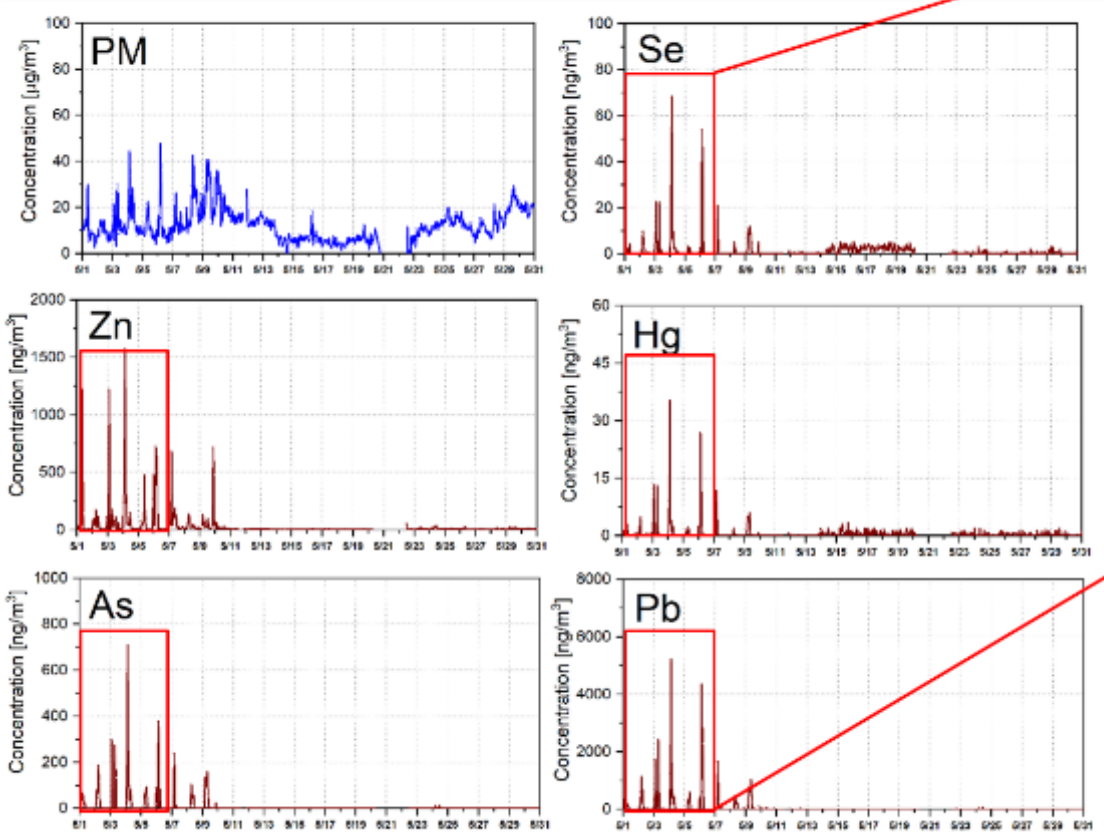
Detectable Elements (Table 2)

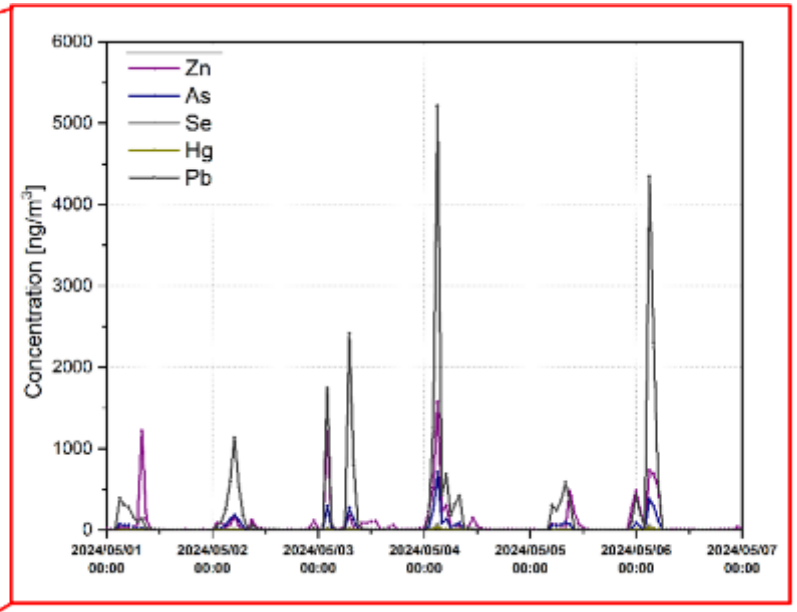
H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra		Rf	Ha	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Unt	Fl	Unp	Lv	Uus	Uno
lanthanoid			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
actinoid			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

Detectable Elements

* ○—Standard parameters, calibrated by standard calibration materials.
* For measurement of element concentration calibration by standard calibration materials is needed.
* Please contact separately about elements, marked as non-detectable.

PX-375 Measurement Data





Mass occurrence every day from late at night to early morning

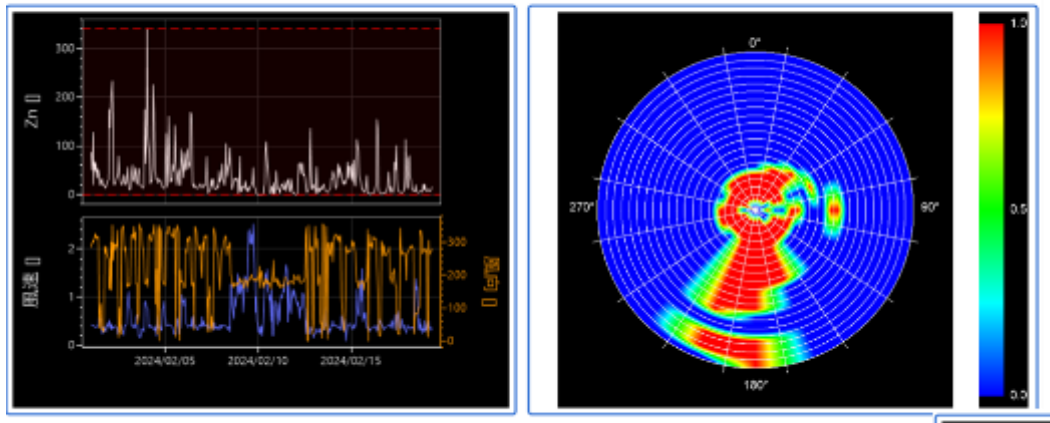
Zn As Se Hg Pb

Maybe Coal Combustion issue

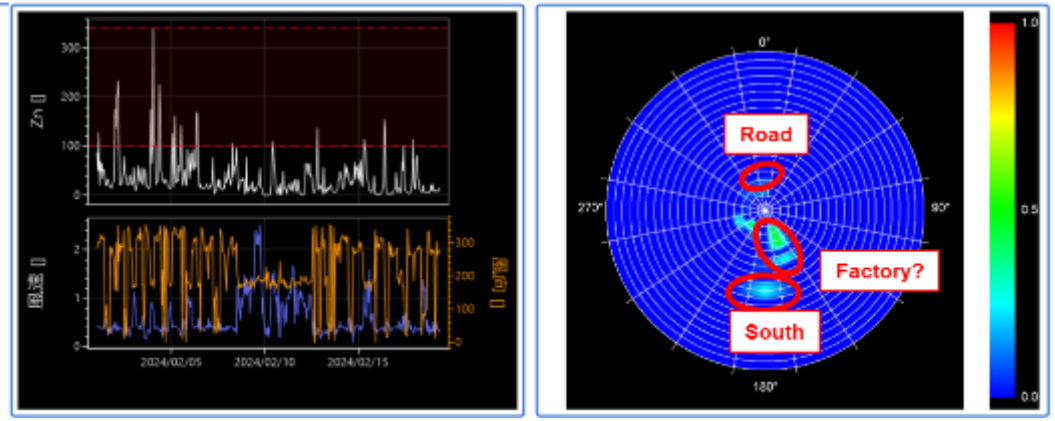
PX-375 Measurement Data

Wind direction and wind speed & Zn

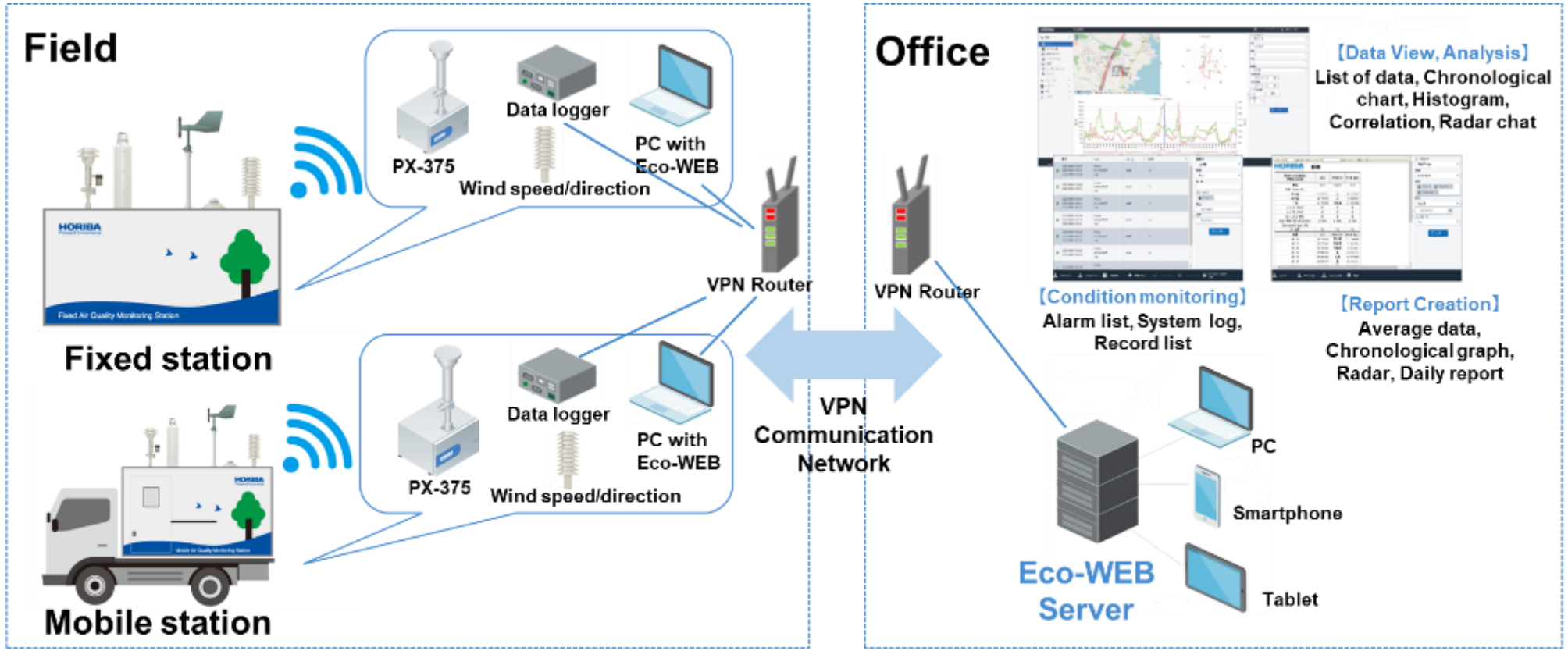
All Data



Only > 100 ng/m3



For Feature Proposal by HORIBA Solution



- Eco-WEB supports analysis of huge amount of data, visualization, creation of daily, weekly reports.
- Remote access from office, confirmation of status, alarms etc.

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Thank you very much