

## **Contribution to globally environmental Preservation of HORIBA Business**

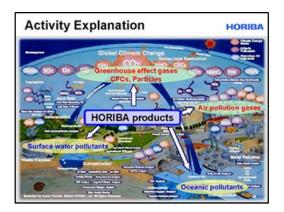
## **IBUKA Shigehito**

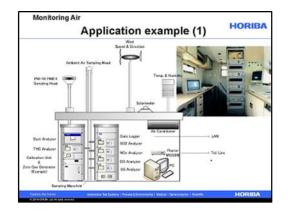
Executive Director, Japan Environmental Management Association for Industry (JEMAI); Division Manager, Environment and Safety, Quality Management Center, HORIBA

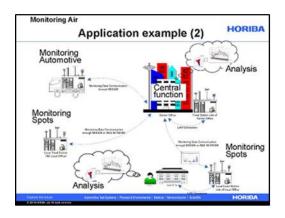


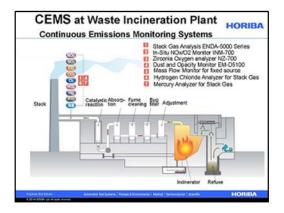


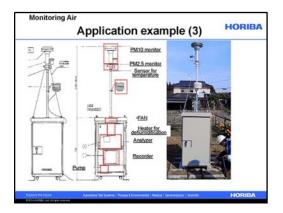


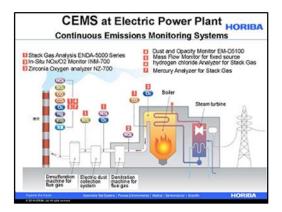






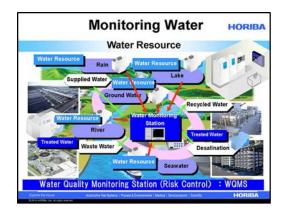




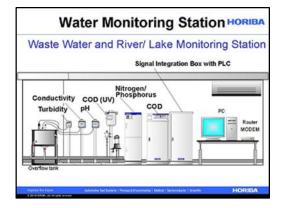


	WHO Guideline	China	Japan	Korea	EU Directive 96/62/EC	USA USEPA NAAQS
PM <sub>12</sub>	50 μg/m <sup>3</sup> (24 h) 20 μg/m <sup>3</sup> annual	150 µg/m <sup>2</sup> (24 h) 70 µg/m <sup>3</sup> annual	(SPM) 100 µg/m <sup>3</sup> (24 h)	100 µg/m <sup>3</sup> (24 h) 50 µg/m <sup>3</sup> annual	50 μg/m <sup>3</sup> (24 h) 40 μg/m <sup>3</sup> annual	150 µg/m <sup>3</sup> (24 h)
PM <sub>2.5</sub>	25 µg/m <sup>3</sup> (24 h) 10 µg/m <sup>3</sup> annual	75 µg/m <sup>3</sup> (24 h) 35 µg/m <sup>3</sup> annual	35 µg/m <sup>3</sup> (24 h) 15 µg/m <sup>3</sup> annual	50 μg/m <sup>3</sup> (24 h) 25 μg/m <sup>3</sup> annual	25 µg/m³ (24 h)	35 µg/m <sup>3</sup> (24 h) 15 µg/m <sup>3</sup> annual
Ultra Fine Particles					Expected in the future	





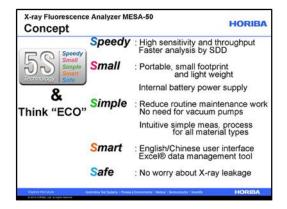














	HORIBA
Thank you கりが	とうございました
Dziękuję ขอมคุณครับ Gracias	Càm ơn 谢谢
Σας ευχαριστούμε الشُكَر	Grazie धन्यबाद
Tack ska ni ha Danke Merci 감사합니다 Большое спас	⊯≁A Obrigado अбо
	Circulos Distrito
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Particle Tables Advertised by Lower Particular Manager Linds	Seventure Libertic HORIBA



Period	Overseas Technical Cooperation, Names and Details	
FY1996~ FY2001	Petrobenical enhances treatment technology project in Fushim (JCA) Through on mined training and specialist depolyment efforts, LEMAI engaged in education and diffusion efforts concerning enhances treatment technologies, as well as related personnel training guidance on resenable enhances treatment technologies (catabitic combustion), harmful mits and modocrows gas absorption) for petrochemical parts at Chrise Petroleum & Chemical Corporation of 202000 (Catabitic Company), which are also training and the second second second and and the second second second second second second second second and the second second second second second second second second and the second second second second second second second second and the second second and the second sec	
FY2004~ FY2005	Collaborative research on building persistent organic pollutants (POP) analysis management systems (ROD, businesses). Along with participating in on-the meetings and seminars about the plant certification system for POP's analysis and measurement, we also conducted training for administrative officials and engineers at the State Environmental Protection Administration. We also gathered information or simple analysis methods.	
FY2006~ FY2007	Othis corporate monitor system promotion (Place 3 activation of the IRX Simo-Japan File Environmental Protection Center Por(ed)) Tool, august principal activation (Place 3) activation (Place 3) activation (Place 3) Tool, august principal activation (Place 3) activation (Place 3) activation (Place 3) construct a corporate environmental monitor system, and travers builters/Place 3). supported and cooperated on efforts to estabilist a system in Civia. During this period JRMs diplicing at activati 05 experts over the curves of 2) ministrations to provide guidance on kultiding diplicing at activation of the curves of 2) ministration to provide guidance on kultiding diplicing at activation of the curves of 2) ministration on kultiding and diplicing at activation on kultiding and activation on kultiding and activation on kultiding and activation on kultiding at activation on kultiding activation of kultiding activation on kultiding activation acti	
FY2008~ FY2010	<sup>10</sup> Corporate environmental monitor system enforcement preparation <sup>-</sup> special diadopsyment preject (IKA-Cinical recomprishmoniton Project) The insist stages of setting up the corporate environmental monitor system called the available creation of monitor system training materials, and monitor system stacker training. We provide support including drawing up a China system plan, creating training materials for certification 2000 cover the downstream training and monitor system stacker.	

## JEMAI Environmental Cooperation in China and S. Korea

- · JEMAI proactively provides environmental management support to businesses. Along with the globalization of environmental concerns, the scope of our reach has widened to include Europe and other Asian nations. •
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- has widened to include Europe and other Aslan nations. We have had a particularly strong history of environmental cooperation in China, finding diverse ways to collaborate, including on pollution prevention and regulatory compliance, and training staff to carry out those new measures. Our cooperation with China and South Korea on chemical regulations in recent years has resulted in a rise in legislation to regulate chemical substances. In addition to our private sector coordination and collaboration on regulatory compliance, we have also been invited by government officials to participate in a summit [The China, Japan, Korea Chemical Summit) that has been held annually since 2010. This year, summit was held in Shanghai for the fourth time. Next year we hope to bring the summit to Japan. .
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Second Colorest	; in all countries involved.
Projects Time Frame	42 personnel exchange projects between 1995 and 2011.
Projects Count	Specialist deployment projects enacted: 14 Visitor training projects enacted: 28; Total attendees: 96 from China, 59 from other countries
Major Projects Entities	JICA (Japan International Cooperation Agency) JICE (JAPAN INTERNATIONAL COOPERATION CENTER)
Major Projects Details	China petrochemical exhaust treatment technology training/industrial pollution prevention training Environmentally fittendly technology research and training/Pollution prevention management system building support industry standards and evaluation training/POPs analysis and measurement training Effective biomass utilization technology training/Corporate environmental monitor system setup.