

Terms of Reference

International Seminar on “Environmental Management and Development in Indonesia”

A collaboration between:

**FORESTRY AND ENVIRONMENT RESEARCH,
DEVELOPMENT AND INNOVATION AGENCY,
MINISTRY OF ENVIRONMENT AND FORESTRY, INDONESIA
AND
NATIONAL INSTITUTE FOR ENVIRONMENTAL STUDIES,
TSUKUBA - JAPAN**

*Auditorium Research and Development Center for Environmental Quality of Laboratory
MINISTRY OF ENVIRONMENT AND FORESTRY, INDONESIA
SERPONG, 8 October 2015*

Background

The biggest challenge faced by the world in general and Indonesia as well today and in the next few years is the phenomenon of climate change. Various studies conducted by national and international institutions concluded that climate change is caused by various human activities, such as agriculture, animal husbandry, fisheries, forestry, industrialization and transportation that use fossil fuels, where their impacts have not been optimally controlled.

People are now aware that there has been a global increase in temperature that occurs in the earth due to the effects of greenhouse gas (GHG) emissions. GHG consisting of CO₂, methane, nitrous oxide, CFCs and other elements. The magnitude of these gases continues to grow over time and they reflect the radiation repeatedly into the air resulting in the increase of earth's surface temperature. CO₂ contributes to the raising temperature of the earth global. Excessive and imbalance CO₂ in the air will lead to the occurrence of a natural phenomenon that will damage the environment, ranging from problems experienced by island countries such as Indonesia, the sinking of some islands in the world, rising sea levels along the coast, air pollution, disruption of environmental quality, the destruction of various species, until the existence of the hole in the ozone layer of the atmosphere.

Ozone (O₃) is formed from the reaction between oxygen (O₂) and ultraviolet rays. Ozone serves as a barrier of the sun's ultraviolet radiation so that UV light does not reach to the earth or to humans and other living things which, if not blocked by Ozone, will impact on human health such as cataracts, skin cancer, etc. On the other hand, people also need the ultraviolet to provide vitamin D. Hence, ozone concentration needs to be maintained support the human's life.

Ozone is also produced by humans as a water purification material, bleaching agent, and one of the plastic forming elements. Based on research findings the ozone layer of the earth that can protect humans from UV-B radiation is reducing. Indications of

damage to the ozone layer were first discovered by British Antarctic Survey (BAS), a team of British researchers, about three and a half decades ago. A few years the destruction was worsening. The increase of ozone hole in the polar regions is alarming. If unanticipated, it can cause tremendous environmental disaster not only in Antarctica but also can spread into Indonesia. Chlorofluorocarbons (CFC) is also known as a gas that can deplete ozone layer. In addition to CFCs, there is also hydrochlorofluorocarbons (HCFCs), halons, methyl bromide, carbon tetra chloride, and methylchloroform. Since 1999 Indonesia has conducted measurements of ozone surface concentration with Air Quality Monitoring System (AQMS).

In line with the issues related to environment and forestry that has been described above, the Ministry of Environment and Forestry has developed an Environmental Quality Index (IKLH) used by policy makers to quickly assess the quality of the environment and then formulate required policies. IKLH has been included in the Medium Term Development Plan (Plan) for environmental and forestry sector. The parameters to develop IKLH comprise water quality, air quality and land cover. To improve the quality of IKLH, a research is needed to include other parameters.

Efforts have been made to reduce the impact of global warming through the reduction of greenhouse effects. The examples of the efforts include tree planting programs, the efficiency of energy use, utilization of new and renewable energy and the use of carbon capture and storage technology (CCS).

The Objectives of Seminar

The objectives of the seminar is to exchange experience and knowledge of experts, practitioners, bureaucrats and other related parties from Indonesia and from Japan (NIES) on environment and forestry issues and problems in Indonesia today, especially the issue of carbon dioxide, energy efficiency, an index of environmental quality and ozone layer. The results of this seminar will be the basis for developing a collaborative research proposal between the Forestry and Environment Research, Development And Innovation Agency (FOERDIA), Ministry of Environment and Forestry with the National Institute for Environmental Studies (NIES), The Government of Japan. This seminar is expected to produce some ideas and thoughts or conceptual framework and proposals for reducing CO₂ emissions, avoid the depletion of ozone in the air and improve the quality of the environment that can be adopted and adapted by practitioners or bureaucrats at the site level.

The Structure of Seminar

This seminar will be held in the auditorium of the Research and Development Center of Environmental Quality and Laboratory, Puspiptek, Serpong, South Tangerang on October 8, 2015. Participants that will be invited include representatives of: (1) bureaucracy from the central to the city/district levels; (2) universities (academics); (3) national/international NGOs; (4) national and international research institutions; and (5) national/multinational companies. (6) Practitioners. The seminar is divided into two sessions, presentations and discussions.

Organizing Committee

The organizing committee is a joint committee involving of the Research and Development Center of Environmental Quality and Laboratory (P3KLL). Ministry of Environment and Forestry, R&D Centre for Socio-economy Policy and Climate Change, and Secretariat of FOERDIA. The structure of the committee will be decreed by the DG of FOERDIA.

The Agenda of Seminar

Tentative Agenda Seminar "Environmental Management and Development in Indonesia", October 8, 2015 is as follows:

Waktu (Time)	Acara (Agenda)	Penanggung Jawab (Person In Charge)
08.00 – 08.30	Registration	Committee
08.30 – 08.40	Introduction by Director of Research and Development Center for Socio-Economy Policy and Climate Change)	Dr. Ir. Bambang Tri Hartono
08.40 – 08.45	Speech by the DG of FOERDIA	Dr. Ir. Henry Bastaman
08.45 – 09.10	Speech by NIES President	Prof. Akimasa Sumi
09.10 – 09.30	Keynote Speech by the Minister	Dr. Siti Nurbaya
09.30 – 09.45	Coffe Break	
	Presentation	
09.45 – 10.05	The Development of MRV System Towards Tier 3 Estimates for Historic and Futures GHG Fluxes	Dr. Haruni Krisnawati, (Senior Researcher of FOERDIA)
10.05 – 10.25	Innovative MRV System, eco-city and eco-industrial development	NIES: Prof. Fujita (Director of Center for Social and Environmental System Research)
10:25-10:45	Development of a Strategy for Deep Decarbonizing in Land and Forest Development Initiatives	IPB: Prof. Rizaldi Boer, (Director, Centre for Climate Risk and Opportunity Management in Southeast Asia and Pacific)
10:45-11:05	Monitoring Aspect of MRV System for GHG Emission of Industrial Energy Systems	ITB: Prof. Retno Dewi Gumilang, Head of Center for Research on Energy Policy
11.05 – 11.25	Carbon Emission Reduction Through Planting and Use of Biofuel	Mr. Subarudi, MForSc (Senior Researcher of FOERDIA)

11.25 – 11.40	Carbon Flux Monitoring on terrestrial Ecosystem	Dr. Saigusa (Deputy Director of Center for Global Environmental Research)
11.40 – 12.30	Discussions	Moderator
12.30 – 14.00	Lunch Break	
14.00 – 14.20	Application of Environmental Quality Index to Manage Environment	Ir. Dewi Ratningsih Researcher of FOERDIA
14.20 – 14.40	Air pollution in Japan and East Asia	NIES: Dr. Akinori Takami (Deputy Director of Center for Global Environmental Research)
14.40 – 15.00	Ozone Concentration and its Effect	Dr. Esrom Hamonangan Panjaitan, Deputy Director of Research and Development Center for Environmental Quality of Laboratory - FOERDIA
15.00 – 15.20	Development of advanced and appropriate treatment systems for liquid waste.	Dr. Ebie (Senior researcher for Material Cycles and Waste Management Research)
15.20 – 16.30	Discussions	Moderator
16.30 – 17.00	Closing	Pm

Daftar Peserta (List of Participants)

1. Kepala Badan LitbangdanInovasi, Kementerian LHK
2. MrAkimasaSumi, Presiden NIES
3. StafAhliMenteriBidangPerubahanIklim
4. NIES Participants (Please write down who will be invited)
5. ITB: Prof. RetnoDewiGumilang, Head of Center for Research on Energy Policy
6. IPB: Prof. Rizaldi Boer, Director, Centre for Climate Risk and Opportunity Management in Southeast Asia and Pacific
7. SekretarisDirekturJenderalPengendalianPerubahanIklim
SekretarisDirekturJenderalPengendalianDaerahAliran Sungai
danHutanLindung
8. SekretarisDirekturJenderalPengelolaanHutanProduksi Lestari
9. SekretarisDirekturJenderalPlanologiKehutanandan Tata Lingkungan
10. SekretarisDirekturJenderalPengendalianPencemaran danKerusakanLingkungan
11. SekretarisDirekturJenderalPengelolaanSampah, Limbah,
danBahanBeracunBerbahaya
12. SekretarisDirekturJenderalPerhutanananSosial danKemitraan
13. SekretarisDirekturJenderalPenegakanHukumLingkunganHidup danKehutanan
14. SekretarisBadanLitbangdanInovasi, Kementerian LHK
15. SekretarisBadanPenyuluhandanPengembangan SDM, Kementerian LHK
16. Kepala Biro Perencanaan Kementerian LHK

17. Kepala Biro KerjasamaLuarNegeri, Kementerian LHK
18. KepalaPusatPelatihanMasyarakatdanPengembanganGenerasiLingkungan
19. KepalaPusatStandarisasi LingkunganKehutanan
20. KepalaPusatLitbangSosial, Ekonomi, KebijakandanPerubahanIklim
21. KepalaPusatKebijakanStrategis, Kementerian LHK
22. KepalaPusat Data danInformasi, Kementerian LHK
23. KepalaPusatPenelitiandanPengembanganHutan
24. KepalaPusatPenelitiandanPengembanganHasilHutan
25. KepalaPusatLitbangKualitasLingkunganLaboratoriumLingkungan
26. SekretarisBadanPenelitiandanPengembangandanInovasi
27. KepalaPusatKebijakanPembiayaanPerubahanIklimdan Multilateral, Kemenkeu
28. DirekturKehutanandanKonservasiSumberdaya Air, Bappenas
29. DirekturMitigasiPerubahanIklim, Dirjen PPI Kementerian LHK
30. DirekturPemanfaatanJasaLingkunganHutanKonservasi, Ditjen KSDAE
31. Direktur Usaha JasaLingkunganHutanProduksidan HHBK, Ditjen PHPL
32. DirekturBina Usaha PerhutananSosialdanHutanAdat, Ditjen PSKL, Kementerian LHK
33. DirekturInventarisasi Gas RumahKacadan MRV, Ditjen PPI, Kementerian LHK
34. KepalaBalaiBesar KSDA Jabar
35. KepalaBalaiBesar KSDA DKI Jakarta
36. KepalaBalaiBesar Taman NasionalGunungGedePangrango
37. KepalaBalai Taman NasionalGunungHalimun-Salak
38. KepalaBalai Taman NasionalKepulauanSeribu
39. KepalaBalaiPengelolaan DAS Citarum-Ciliwung
40. KepalaBalaiDiklatKehutanan Bogor
41. KepalaBalaiLitbangTeknologiPerbenihan Bogor
42. Kepala BPPHP Wilayah VII Jakarta
43. Kepala BLHD ProvinsiJawa Barat
44. Kepala BLHD ProvinsiBanten
45. Kepala BLHD DKI Jakarta
46. KepalaDinasKehutananProvinciJawa Barat
47. KepalaDinasKehutananProvinciBanten
48. KepalaDinasKehutananProvinci DKI Jakarta
49. Sekretaris Daerah Kota Bogor
50. Sekretaris Daerah Kabupaten Bogor
51. Sekretarias Daerah KabupatenTangerang Selatan
52. Kepala BLH Kota Bogor
53. Kepala BLH Kabupaten Bogor
54. Kepala BLH Kota Jakarta Barat
55. Kepala BLH KabupatenTangerang Selatan
56. KepalaDinasPertaniandanKehutananKabupaten Bogor
57. KepalaSukuDinasPertaniandanKehutananKotamadya Jakarta Barat
58. ACIAR Jakarta
59. CIFOR
60. ICRAF
61. WWF-Indonesia
62. LATIN
63. Dr. AriefDaryanto – SekolahBisnis IPB
64. Dr. JatnaSupriatna – Universitas Indonesia

65. Ir. NoviaWidyaningtyas, MFor. Sc.
66. Dr. ImanSantoso (CI)
67. DR. Rizaldi Boer (IPB)
68. Kabid Program PuslitbangSosekjak PI
69. Kabid PDTL PuslitbangSosekjak PI
70. KabidKerjasamadanDiseminasiPuslitbangSosekjak PI
71. Kabid Program Puslitbang KLLL
72. Prof. Chairil Anwar Siregar
73. Prof. Ahmad Fauzi (IPB)
74. Dr. ZahrulMuttaqin
75. Dr. Dirjana (ITB)
76. Dr. Harnani (Trisakti)
77. Prof. GustanPari
78. Prof. Bismark
79. Prof. Pratiwi
80. Pro. Dulsalam
81. Prof. Adi
82. Dr. Haruni
83. Dr. I Wayan Sushi
84. Dr. SulistyaEkawati
85. Dr. IsmayadiSamsudin
86. Dr. Lukas Wibawa
87. Dr. TrionoPuspitodjati
88. Dr. NikenSakuntalaDewi
89. Dr. Satria Astana
90. Ir. RetnoMaryani, MSc
91. Ir. Ari Wibowo
92. Ir. Subarudi, M.WoodSc
93. Dr. Belinda M
94. Ir. Radian Bagiono
95. Dr. EsromHamonanganPanjaitan
96. Ir. Thomas Nifinluri, MSc
97. Ir. C. Nugroho, MSc
98. Ika Wahyu
99. Dr. Henri Silka Innah
100. Dr. Tri Wahyudianti
101. Ir. Wisnu Eka Yulyanto - P3KLL
102. Ir. Heri Hamdani – P3KLL
103. Ir. RetnoPuji Lestari – P3KLL
104. Ir. Dewi Ratnaningsih - P3KLL
105. Ms. Rita – P3KLL
106. Ms. Arum Prajanti – P3KLL
107. Ms Aisah – P3KLL
108. Ms. Alfrida Wster South – P3KLL
109. Ms. Sri Unon – P3KLL
110. Ms Melani – P3KLL
111. Ms Hanny – P3KLL
112. Ms. Grace JH Siregar, SH
113. Dra. Nunung Hanura Wati – P3 SEKPI
114. Hendra, S.Hut – P3SEKPI
115. Yadi Mulyadi, S,Hut – P3SEKPI
116. Ir. Yoyok Sigit, MSi – P3 SEKPI

Pendanaan/Budgeting

No	Activity	Volume	Price per Unit (IDR)	Total Budget (IDR)
1	Meeting Package	100person	750.000	75.000.000
2	Honoraria for Presenters	16person	1.400.000	22.400.000
3	Honoraria for Moderators	2person	700.000	1.400.000
4	Photocopying	8000paper	200	1.600.000
5	Utilities	1 packet	6.000.000	6.000.000
6	Seminar Kit (USB, Pen, Bag etc)	100 packet	250.000	25.000.000
7	Local Transportation	100person	120.000	12.000.000
8	Honoraria for attendance	100person	300.000	30.000.000
9	Nametag set	100 person	15.000	2.000.000
10	Certificate	100 person	20.000	2.000.000
11	Proceeding+Report	10 exp	750.000	7.500.000
12	Registration Book	4 pc	500.000	2.000.000
13	PapanNamaPembicara (Name tag)	4 pc	50.000	200.000
14	Spanduk (Backdrop)	2 pc	400.000	800.000
			Total	187.900.000
			Total	USD 13,500

Secretariat and Contact Person

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