

TECHNICAL MEETING INTEGRATED PEATLAND MANAGEMENT, MALAYSIA 2012





IMPLEMENTATION OF SUSTAINABLE PEATLAND ECOSYSTEM MANAGEMENT, RIAU

By: APFP LPIC-PROVINCE of Riau, INDONESIA

RIAU'S GENERAL PROFILE

Area: 107,932.71 km²

- \Box Land: 80.11% of the total area
- ☐ Sea : 19.89 % of the total area

Strategic Position:

- $f \square$ Located in the international trading line,
 - Malacca Strait, near Malaysia and Singapore
- ☐ Located in the economic growth triangle; Indonesia-Malaysia-Thailand

ADMINISTRATION:

- ☐ 2 cities and 10 districts
- □ 151 sub districts
- \square 1,643 villages

BOUNDARIES

- □North: Malacca Strait, North
 - Sumatera
- ☐ South: Jambi, West Sumatera
- ☐ East : Malacca Strait, Riau Islands
- ☐ West: West and North Sumatera



Riau's Forest Area based on the Spatial Use Plan of Riau of 1994

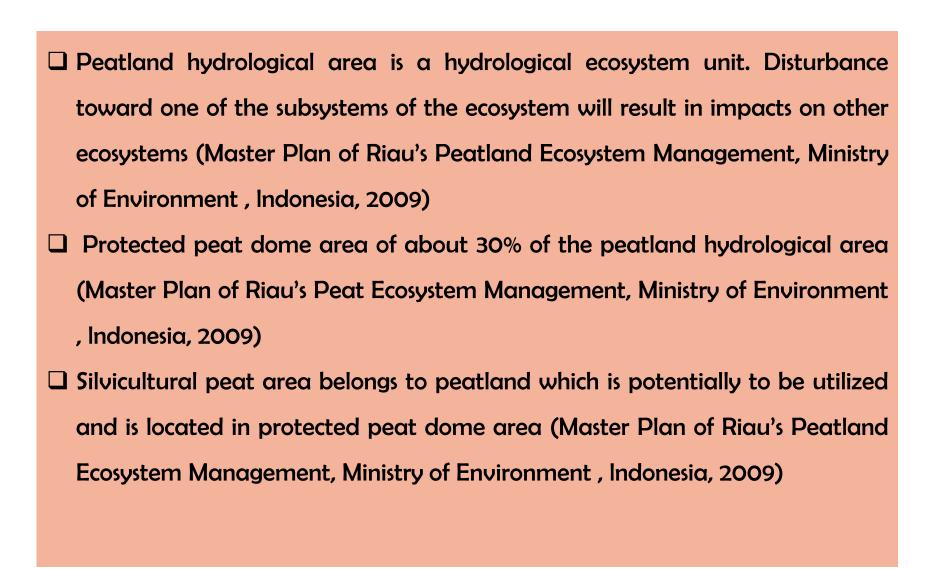
No	ALLOCATION	AREA (HECTARES)	(%)
1.	Forest Area Development	2,872,491	33.41
2.	Protected forest	161,823	1.88
3.	Protected peatland area	830,235	9.66
4.	Conservation forest	570,412	6.63
5.	Area around lake/reservoir	20,024	0.23
6.	Non forestry development (plantation, transmigration, settlement and others)	4,143,772	48.19
	Total	8,598,757	100

ENVIRONMENTAL POLICY

- a. Restoring and conserving water resource, air, forest, land and coastal ecosystem as well as sea.
- b. Increasing management capacity and environmental quality.
- c. Forest land rehabilitation and protection.
- d. Strengthening mitigation actions of negative environmental impact and anticipating global impacts

Profile of Riau's Peatland

- □ About 5.7 million hectares of Riau's area belongs to peatland hydrological area (Master Plan of Riau's peatland ecosystem management) or about 64% of Riau's area
- ☐ There are 23 peatland hydrological areas in Riau
- Riau's peatland hydrological area consists of 1.7 million hectares of peat dome protected area and 4 million hectares of silvicultural area



PEATLAND HYDROLOGICAL UNIT AREA OF RIAU

KABUPATEN	KHG	KLG	KBG
BENGKALIS	1,240,122	474,383	765,740
INDRAGIRI HILIR	1,267,237	222,706	1,044,531
INDRAGIRI HULU	225,635	107,938	117,697
KAMPAR	153,811	15,924	137,887
KOTA DUMAI	298,521	123,317	175,204
KOTA PEKAN BARU	42,266	0	42,266
PELALAWAN	904,461	234,088	670,373
ROKAN HILIR	734,050	263,032	471,018
ROKAN HULU	117,645	19,607	98,036
SIAK	735,835	231,990	503,845
Jumlah	5,719,583	1,692,985	4,026,598

PEATLAND MAP OF RIAU



PEATLAND ISSUES IN RIAU

Peat land utilization for plantation forest and estate crops Peatland and forest fire Peatland emission Canals in peatland Decreased peatland vegetation cover

BENEFITS OF SUSTAINABLE PEATLAND MANAGEMENT

ECOLOGY

- Carbon sink
- Hydrological system
- Biodiversity conservation, etc

SOCIAL-ECONOMY

- Poverty alleviation (plantation, agriculture, fishery etc)
- Contribution to Riau Province because estate crops and plantation forest on peatland provide job opportunity in Riau

IMPLEMENTATION OF SUSTAINABLE PEATLAND MANAGEMENT IN RIAU

- 1. Proposed protected peatland area in the new revised spatial use plan of Riau)
- 2. Peatland spatial use plan of Riau
- 3. Water management especially in plantation forest
- 4. Encouraging biosphere reserve of Giam Siak Kecil Bukit Batu management (peat swamp forest conservation area)

IMPLEMENTATION OF SUSTAINABLE PEATLAND MANAGEMENT IN RIAU

- 5. Zero burning in peatland
- 6. Carbon conservation and green house gas emission mitigation resulting from peatland through REDD+ and establishment of Riau's climate change center information
- 7. Research on alternative livelihood options for people around biosphere reserve of Giam Siak Kecil Bukit Batu under the Asean Peat land Forest Project (APFP)
- 8. Conservation information dissemination toward local people around conservation forest which have peatland ecosystem, for instance biosphere reserve of Giam Siak Kecil Bukit Batu

CHALLENGES OF IMPLEMENTATION IN SUSTAINABLE PEATLAND MANAGEMENT

- Revised spatial use plan of Riau has not finished yet
- Green house gas emission from peat fire
- Peatland utilization for palm oil is still high compared to other commodities
- The use of environmentally-friendly peat land and technology at community level is still low

THANK YOU