

Dana Mitra Gambut-Indonesia

Small Grants Programme to support community-based peatland conservation, restoration and sustainable development



COMMUNITY ACTION FOR PEATLAND RESTORATION

DMG-Indonesia vision is that **"Peatlands are restored and sustainably managed by communities, resulting in reduction of emissions, fires, and peatland subsidence, while enhancing livelihoods"**.

We are achieving this through funding 10 community-based Rewetting-Revegetation-Revitalization (3R) projects in **17 villages, in 5 provinces** of Riau, Jambi, South Sumatra, West Kalimantan and Central Kalimantan.

DMG-Indonesia works through a "Call for Proposals" to select the best projects and ensure real community desire, participation and livelihood benefits.

DMG-Indonesia complements plans and actions of the Indonesian government to restore 2.4 million hectares of peatland by 2020. The 3Rs approach is integrated with the Peatland Restoration Agency through letter No. S.31/KaBRG/D1/4/2017.

DMG-Indonesia Grantees

1. Yayasan Wahana Bumi Hijau, Musi Banyuasin District, South Sumatera.
2. Perkumpulan Walestra, Muaro Jambi District, Jambi.
3. Perkumpulan Elang, Siak District, Riau.
4. Jaringan Masyarakat Gambut Riau, Meranti Kepulauan District, Riau.
5. Purun Institute, Ogan Komering Ilir District, South Sumatera.
6. Yayasan Puter Indonesia, Katingan District, Central Kalimantan.
7. KUD Sebangau Jaya, Pulang Pisau District, Central Kalimantan.
8. KT. Bangkalung Jaya, Pulang Pisau District, Central Kalimantan.
9. Yayasan Petak Danum, Barito Selatan District, Central Kalimantan.
10. Asosiasi Petikung Bunut Singkar, Kapuas Hulu District, West Kalimantan.

DMG-Indonesia Projects Implementation (as of December 2018)

Accomplishments

- 3Rs activities
- 10 NGOs capacity enhancement
- 44 community groups established
- 16,747 hectares to support peatland restoration
- 473 females trained related to 3Rs activity
- 445 male trained related to 3Rs activity
- 2,551 household project beneficiaries (direct & indirect)
- 93 hectares demonstration plots developed
- 4 local policy influence (related to peatland)
- 2 legal status of village forest established (continuation from previous project and multi funding)
- 11 hectares for integrated farming paddy
- 2 Bioright schemes
- 1 Cooperative
- 1 guard post for fire monitoring

Rewetting

- 34 deep-wells
- 33 canal blockings
- 7 water reservoirs
- Estimated 773 hectares being prevented through forest fire prevention, as well as supporting land base and water base livelihood
- 169 persons involved in rewetting activities

Revegetation

- 86 hectares for revegetation (agroforestry based paludiculture: sago, jelutung, geronggong, belangiran, pulay, meranti, ramin, suntay, bintangor)
- 28,380 seedlings planted
- 25,400 seedlings for nursery

Revitalization of Livelihood

- **Land-based:** animal husbandry, paddy, agroforestry based paludiculture, honey bee, handicraft from purun. Bio-rights. Cooperative.
- **Water-based:** Aqua-culture (endemic and non-endemic fish), development of floating fish trap
- **Environment services:** 1 ecotourism
- 15,087 hectares restored for livelihood improvement (agroforestry based paludiculture: sago, jelutung, geronggong, belangiran, pulay, meranti, ramin, suntay, bintangor). Others: horticulture, coffee, aren, pepper, serai wangi, nanas, timun, corn, water melon, chili
- 7 hectares for integrated farming (paddy and horticulture)

R1
REWETTING



R2
REVEGETATION

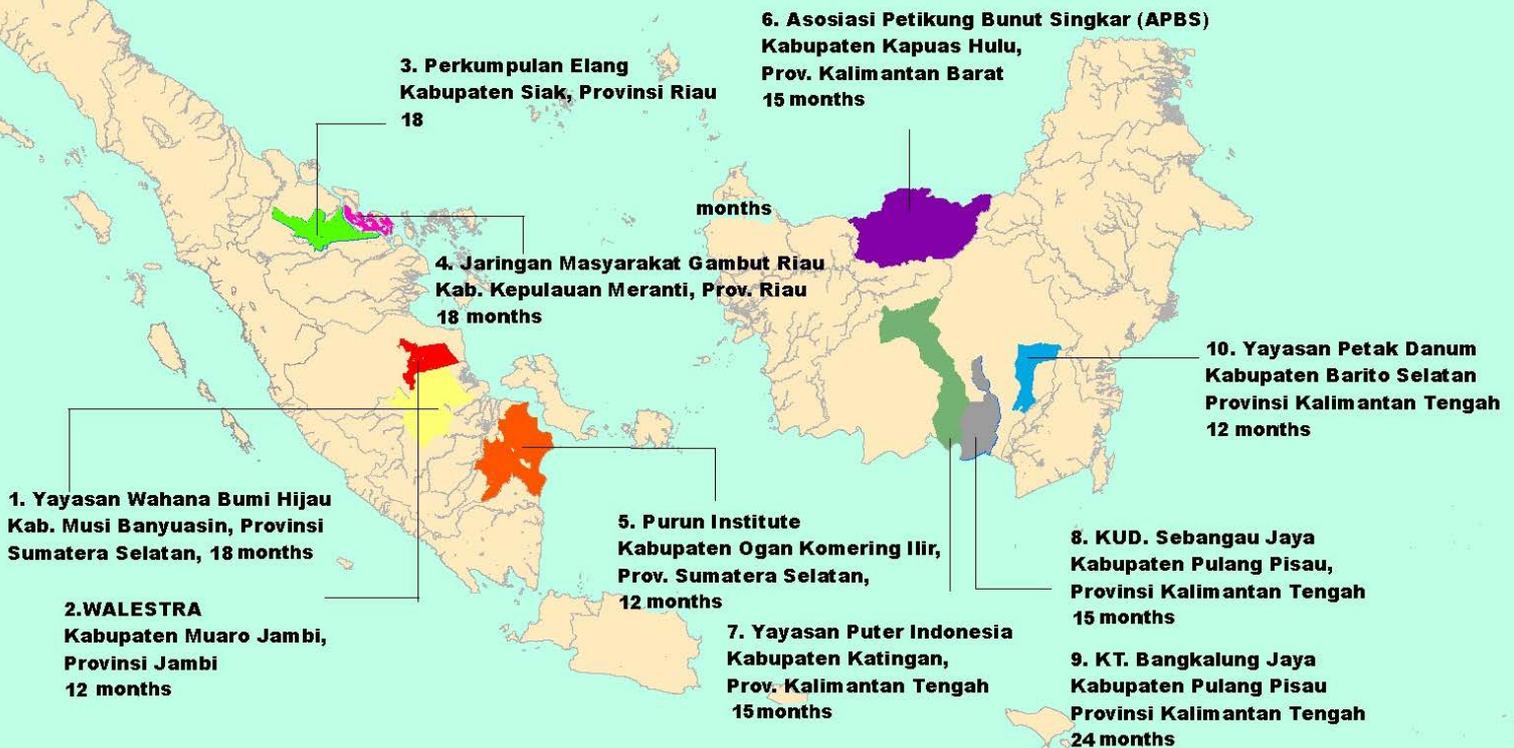


R3
REVITALIZATION



DMG Indonesia Project Sites

10 Grantees (2017-2019)



DMG-Indonesia

DMG-Indonesia is a partnership fund governed by Wetlands International, designed to support projects related to community-based peatland conservation, restoration and sustainable development.

Vision: "Peatlands are restored and managed sustainably by communities, resulting in reduction in emissions, fires, and peatland subsidence, while enhancing livelihoods".

Steering Committee

DMG-Indonesia is advised by a Steering Committee comprising of Dr. Alue Dohong (Deputy II of Indonesian Peatland Restoration Agency/BRG), Ir. Erna Roesdiana, M.Si (Director of PKPS. Area Preparation for Social Forestry at Ministry of Environment and Forestry), Marcel J. Silvius (Country Representative of GGGI Indonesia), Dr. Ridzki Rinanto Sigit (Program Manager of Mongabay Indonesia), and Nyoman Suryadiputra (Head of Office Wetlands International Indonesia).

Impact for People

Every year the farmers in Bagan Melibur and Mekarsari village in Meranti island, Riau are at risk of forest and land fires in their sago and rubber plantations. Therefore the JMGR project blocked 8 canals to maintain soil wetness and reduce the risk of fires.

"I hope the use of canal blocking will work well to rewetting the peat area, to make our plants growing better. This will positively affect to our livelihood" said Sarpani, a 59 year old, farmer member in Bagan Melibur.

In addition to rewetting, the project also developed 4 hectares of demonstration plots for agroforestry-based paludiculture, planting with sago, meranti, pandan and mix plants such as *geronggang*. Cooperatives were also established to manage processing and marketing of food derivatives from sago, to support livelihoods for the long term. (JMGR)



1. Yayasan Wahana Bumi Hijau, Sumatera Selatan

- **Project title:** Combating forest and peatland fires with community-based approach by enhancing the local communities income
- **Location:** Kepayang Village, Musi Banyuasin District, South Sumatera

The project is implemented in *Hutan Desa* Kepayang. Kepayang village, with the Hutan Desa to manage 5,170 hectares of the Kepayang forest, based on Forestry Ministerial decree No. 573/Menhut-II/2013.

The activities carried out are canal blocking and deep wells development (rewetting), rehabilitation in critical peatland areas (revegetation), and monitoring of forest fires prevention.

The project also supports business development by channeling funds to the 4 community groups with a bio-right scheme, increasing awareness on peatland conservation.

The project established the following community groups:

- Community group for fires prevention (Masyarakat Peduli Api).
- Community group to develop canal blocking and deep-wells.
- Community group for nursery and planting.

Period: 18 months, 10.2017-03.2019

Funding: IDR 299,725,000

Beneficiaries: 60 households

Output:

- 4 community groups established (1 female and 3 male group).
- 4 canal blockings developed.
- 10 deep-wells. Estimated 30 hectares being protected through forest fires prevention.

Livelihood developed:

- Bio-right scheme for conservation purpose.
- Paludiculture with 4,000 *jelutung* seedlings (long term investment).
- Nursery.



2. Perkumpulan Walestra, Jambi

- **Project title:** Community-based sustainable peatland management in the landscape of Berbak ecosystem
- **Location:** Sogo Village, Sungai Aur Village, Kumpeh Sub District, Muaro Jambi District, Jambi

The project carried out community base peatland management, supporting peatland restoration efforts in previously burned peatland caused by forest and peatland fires, and supporting mitigation efforts in the Berbak ecosystem landscape.

Project activities:

- Improving community-based peatland management through rewetting activities, as a strategy for forest and land fire prevention.
- Developing alternative livelihoods through establishment of aqua-culture/fish cultivation (*lele*, *patin*) and agroforestry models to support livelihoods in relation with sustainable peatland management.
- Awareness rising and advocacy on the dangers of forest and land fires.
- Revegetation and rehabilitation of 50 hectares of degraded peatland (burned area in Blok B 135, known as Tahura Orang Kayo Hitam) with agroforestry based paludiculture to support sustainable peatland management (10,000 seedlings).
- Establishment of nursery centers with 10,000 seeds (*jelutung rawa*, rubber, jengkol, petai).

Period: 12 months, 10.2017-09.2018

Funding: IDR 299,350,000

Beneficiaries: 70 households

Output:

- 4 deep-wells development.
- 2 canal blocking development in Sungai Aur village, Tahura Orang Kayo Hitam.
- Revegetation of 50 hectares of degraded peatland.
- 100 female training participants.
- 250 male training participants.

Livelihood developed:

- Aqua culture.
- Agroforestry based paludiculture (long term investment).
- Nursery centers.

3. Yayasan Elang, Riau

- **Project title:** Sustainable peatland management practices at the community level to support protection and sustainable management of Zamrud National Park
- **Location:** Dayun Village, Dayun Sub District, Siak District, Riau

The project carried out sustainable peatland management through revegetation and rehabilitation activities, by planting native wetlands plants (Paludiculture) in the buffer zone of Zamrud National Park.

Project activities:

- Involving 2 Groups: 1) 15 women for rehabilitation and paludiculture activities (sago, nipah, pepper, coffee); 2) 10 men (MPA members) to develop canal blocking.
- Development of 2 hectares demonstration plot with integrated 3Rs activities, aim for sharing learning place and as community model for integrated 3Rs activities.
- The project accomplishments will be use as a model to pursue local regulation for peatland management in Siak.

Period: 18 months, 10.2017-03.2019

Funding: IDR 297,000,000

Beneficiaries: 25 households

Output:

- 2 hectare demonstration plots to implement 3Rs activities.
- Construction of 4 canal blockings.
- Village regulation related to 3Rs activities for Dayun Village.

Livelihood developed:

- Agroforestry based paludiculture: sago, nipah, pepper, coffee (long term investment).

4. Jaringan Masyarakat Gambut Riau

- **Project title:** Mitigation of forest and peatland fires by increasing community participation for sustainable peatlands and forest management
- **Location:** Bagan Melibur and Mekarsari Village, Meranti Islands, Riau

Every year farmers in Bagan Melibur and Mekarsari experience, and are at risk of, forest and land fires in their sago and rubber plantations, source of their livelihood. The project aims to reduce the risk of forest and peatland fires through restoration (rewetting and revegetation) activities with sustainable business opportunities for the peatland communities in Bagan Melibur Village and Mekar Sari Village, Meranti Islands Regency, Riau.

In addition, this project will also target 40 members of the Fire Concern Community (MPA) in the village related to the activities carried out.

Project activities:

1. Development of canal blockings.
2. Development of 4 hectares demonstration plots for agroforestry based paludiculture, planting with sago, *meranti*, *pandan* and mix plants such as *geronggong*.
3. Business development (cooperatives) to manage processed food derivative from sago.
4. Making village regulation (Perda) related to forest and land fires and the creation of economic institutions.



Period: 18 months, 10.2017-03.2019

Funding: IDR 299.900.000

Beneficiaries: 600 households

Output:

- 8 canal blockings.
- 4 hectares demonstration plots.

Livelihood developed:

- Agroforestry based paludiculture: sago, *meranti*, *pandan*, *geronggong* (long term investment).
- Cooperative: to manage processed food derivative from sago.



5. Purun Institute, South Sumatera

- **Project title:** Supporting sustainable management and utilization of land for Purun grass production in community village of sub-district Pedamaran, OKI District, South Sumatra
- **Location:** Menang Raya Village, Padamaran, 1,5,6, Ogan Komering District

This project develops *purun* grass as a community based business model by enhancing community's skill to produce handy crafts from *purun* grass, improving their management skill and utilization of peatland for *purun* grass production.

There are about 400 people involved, divided into 2 main groups of: 1) 20 females groups for making handy crafts from *purun* grass; and 2) 5 males groups as *purun* grass collector.

Project activities:

- Capacity enhancement of community groups to produce handicrafts from *purun* grass, increasing income.
- Community empowerment to manage the utilization of peatland, where *purun* grass is growing. Raising community awareness for long term and sustainable *purun* grass harvesting.

Period: 12 months, 10.2017-10.2018

Funding: IDR 300.000.000

Beneficiaries: 100 house holds

Output:

- Established 25 community groups.
- Community based peatland livelihood secured.
- Increased community awareness and ownership to protect peatland where the *purun* grass is growing.

Livelihood developed:

- Handycrafts from *purun* grass.

- Awareness raising for community and local government to protect peatland area for *purun* grass.
- Project activities initiated demand for local regulation to protect *purun* areas to secure community livelihood.

6. Yayasan Puter Indonesia, Central Kalimantan

- **Project title:** Improving community land and resource rights and business development on peatlands through a social forestry scheme
- **Location:** Mendawai and Telaga village, Katingan district

Yayasan Puter Indonesia supports communities to obtain legal rights to manage forests village in Desa Mendawai and Telaga. This process has started after the previous project and is continued by the IPPF fund.

The project implements community based ecotourism, develops tourist facilities such as boardwalks, observation posts, guides and attractions for community daily activities, and supports skill enhancement for food, accommodation and hospitality.

Through ecotourism it is expected that the Mendawai people (who have been exploring and extracting sand and gold, and have been engaged in illegal logging and hunting for years), will be shifting towards sustainable natural resources (such as non-timber forest product and environmental services). In the long run, it is hoped that the community will realize that managing its village forest properly will give them benefits and creates income, while at the same time conserves the peatland area.

Project activities:

1. Improving the management of peat swamp ecosystem areas through social forestry schemes (*hutan desa* in Telaga and Mendawai Villages).
2. Improving the forest management, land and its potential through community based ecotourism.

Period: 15 months, 10.2017-03.2019

Funding: IDR 297.000.000

Beneficiaries: 684 households including local government, PT. RMU

Output:

- Biodiversity data collection.
- Ecotourism development and management in HPHD area.
- Community business in HPHD area.
- 2 canal blockings development.
- Revegetation of 10 hectares for paludiculture.

Livelihood developed:

- Environmental services: Community based ecotourism.
- Paludiculture: *Belangiran* and *Pulay* (@5,000 seedlings, long term investment).

7. KUD Sebangau Jaya, Central Kalimantan

- **Project title:** Development of integrated farming without burning for land clearing
- **Location:** Sebangau village, Pulang Pisau distric

The project activities aims to develop environmentally friendly integrated farming, by improving land ecosystems, increasing productivity, reducing carbon emissions, impose non-burning agriculture practices that still often occur by the community.

Sebangau Jaya Village has experienced several food crises (i.e. food insecurity) in recent years. With focus on the unproductive and degraded shallow peatland of the community, the project began to develop integrated farming systems with land clearing without burning, using in situ decomposer microbes that is good for plants and also safe for soil and environmental conditions.

Through integrated farming activity, it is expected that agriculture activities will improve the peatland ecosystem in a sustainable way and shall be replicated in another rural communities.

Project activities:

- Environmental: rewetting dry peatlands, forest fire prevention, improving peatland ecosystems, reducing carbon emissions.
- Social: employment creation.
- Economic: food self-sufficiency, to increase income.

Periode: 15 months, 10.2017-12.2018

Funding: IDR 300,000,000

Beneficiaries: 117 households

Output:

- Improvement of the land ecosystem in unproductive and shallow peatland (making boundaries, irrigation channels, windmill pumps).
- Increased land productivity by having integrated farming agriculture .

Livelihood developed:

- Integrated farming system (paddy, with swamp peat paddy, horticulture, fisheries, animal husbandry, livestock).

8. Kelompok Tani Bangkalung Jaya Makmur, Central Kalimantan

- **Project title:** Community economic development to support integrated peatland restoration in the Handil Bangkalung area, Pulang Pisau District
- **Location:** Kalawa village, Pulang Pisau district

The project aims to maintain and preserve the Handil Bangkalung II area for agriculture while protecting the peatland area from land and forest fires, by implementing 3Rs activities.

Project activities:

- Rewetting: construction of canal blocking, deep wells, *embung* (water reservoirs), for prevention of peatland and forest fires.
- Revegetation: paludiculture (*belangiran, laban*).
- Livelihood improvements (woven, worms, goats, vegetables, and fish).
- Forest fires prevention.

Period: 24 months, 10.2017-10.2019

Funding: IDR 299,846,000

Beneficiaries: 20 farmers/20 households

Output:

- 5 canal blockings development.
- 4 deep-wells development.
- Revegetation of 4 hectares.
- 1 post guard for fire monitoring.

Livelihood developed:

- Paludiculture: 400 sago trees, *Belangiran* and *Gelam* (@500 seedlings, long term investment).
- Animal husbandry: worm, goat and poultry.
- Aqua-culture: 2,000 catfish and tilapia (*nila*).



9. Yayasan Petak Danum, Central Kalimantan

- **Project title:** Community-based peatland restoration through rewetting, revegetation with endemic peatland species, development of deep-wells, canal blockings and *embung* (water reservoirs)
- **Location:** Sei Jaya village and Mahajandau village, Barito Selatan district

The project carried out by Yayasan Petak Danum aims to:

- Rewetting peatlands through canal blockings development.
- Revegetation and rehabilitation of previously burned peatland areas, by planting endemic plants (*jelutung*, *belangiran*, *kayu sepat*) in deep peat domes nearby the Air Hitam ecosystem.
- Prevention of forest and peat land fires through developing deep wells and *beje* rehabilitation into *embung* (water reservoirs).

The project targets the Dayak Ngaju indigenous people who live in Sei Jaya and Mahajandau village, in South Barito District. Project sites are located in the black water ecosystem with thick peat domes that need to be saved.

Project beneficiaries are fisheries communities, rubber and rattan farmers. Yayasan Petak Danum is an institution with rattan production as its main business, working in 7 villages with 130 members mainly women. The handicrafts are marketed for local, district, provincial, national and international levels.

Period: 12 months, 10.2017-10.2018

Funding: IDR 300,000,000

Beneficiaries: 901 households

Output:

- Project awareness raising and facilitation.
- Distribution of peatland endemic seeds which were planted by the community.
- Development of 16 units of deep wells, 6 canals blocking (*sekat tatas*), rehabilitation of 6 *bejes* (swamp fish pond) into 2 *embungs* (water reservoirs).

Livelihood developed:

- Paludiculture (long term investment).

10. Asosiasi Petikung Bunut Singkar, West Kalimantan

- **Project title:** Revegetation of Peatlands through planting trees for sources of nectar for honey bee and the use of swamp peat area for endemic fish farming in Danau Sunjung village, Kapuas Hulu District, West Kalimantan
- **Location:** Danau Sunjung, Kapuas Hulu district

APBS is a community group consisting of Petikung members (forest honey farmers and fishermen). The activities carried out aim to improve their livelihood through fish cultivation and tree plantation for bee's nectar sources.

Project activities raised awareness within the community to obtain legal status to protect the swamp peat area surrounding Danau Sunjung with Hutan Adat/Hutan Desa, under the of Social Forestry scheme.

Project activities:

1. Revegetation by planting seedlings as sources of nectar for honey bee while protecting swamp peat area surrounding Danau Sunjung from expansion of palm oil and other uses.
2. Fish cultivation with endemic species.
3. Increase the capacity of local communities for sustainable fishery.

Period: 15 months, 10.2017-12.2018

Funding: IDR 300,000,000

Beneficiaries: 30 households

Output:

- Revegetation swamp peat seedlings as sources of nectar for honey bee. Provision of 100 seedlings from 5 types of plants.
- Construction of *lanting* (floating house).
- Capacity enhancement (trainings).
- Two units of *Keramba Jaring Apung* (floating net cages).
- GPS mapping training for 5 communities.

Livelihood developed:

- Aqua-culture (1,000 kaloi and 1,000 jelawat)
- Honey bee.

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