



PARTNERSHIP FOR GREATER PROSPERITY

Arya Dwi Paramita, dkk.

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THEME

PARTNERSHIP FOR GREATER PROSPERITY

PHE Subholding Upstream strives to construct better chance for the community to participate and be involved, in order to pursue more sustainable benefits through Community Involvement Development (CID) innovations and value perseverance. In 2022, us and the community collaborating while achieving accomplishment for our stakeholders.

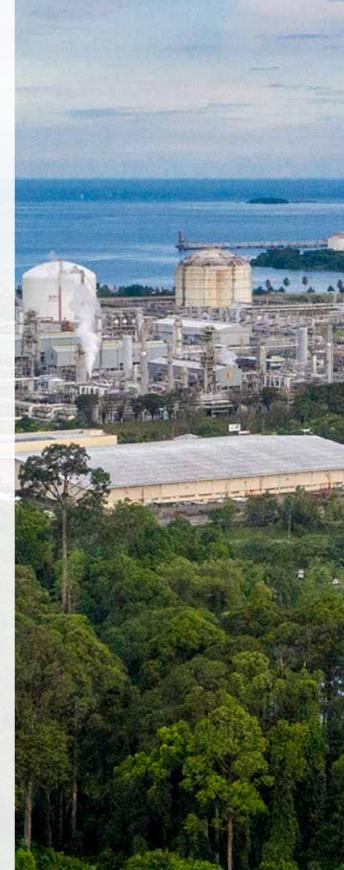
This year CID programs are developed according to ISO 26000 standard while as always, supporting the Sustainable Development Goals (SDGs) in Indonesia.

Partnership for Greater Prosperity

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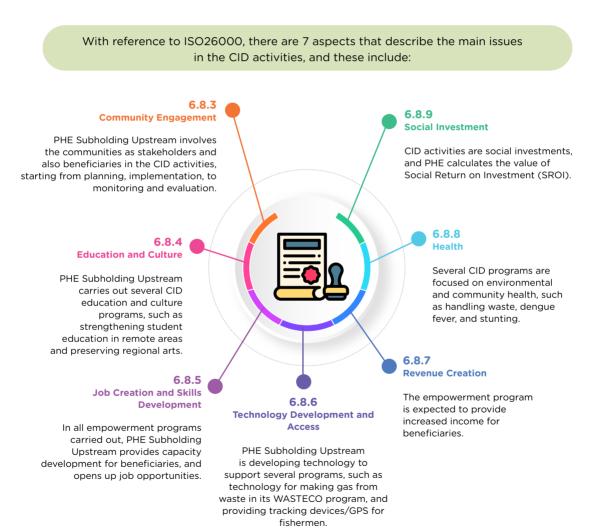
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About This Book

This CID book was prepared by referencing three guidelines, namely ISO26000, especially for the core subject of Community Engagement and Empowerment as a guide for implementing CID activities, Sustainable Development Goals (SDGs) in accordance with the Bappenas targets and indicators, and the Global Reporting Initiative (GRI). The GRI and SDG reference indicators have been adjusted to the activities and impacts achieved to demonstrate compliance with the standards and targets.





This CID Book also describes the achievements that support the Sustainable Development Goals (SDGs) in accordance with the indicator metadata from the Ministry of National Development Planning/BAPPENAS. There are 4 SDG pillars consisting of 17 goals and 169 targets to be achieved by countries in the world, including Indonesia. The following shows the SDGs that we support when implementing our CID activities that have been reported in this book:



SOCIAL DEVELOPMENT PILLAR



Goal 1.4

PHE Subholding Upstream hope is that by increasing income through community empowerment poverty will be reduced.



Goal 2.2 2.4

CID activities to support improving community nutrition and strengthening sustainable food production systems.



Goal 3.3

The Health CID program will help reduce the spread of existing diseases.



Goal 4.1, 4.3, 4.4, 4a.

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The Education CID program will support every Indonesian child to gain proper education, regardless of gender, improve skills, as well as educational infrastructure, and includes disabilityfriendly programs.



Goal 5.2

This CID program is aimed at all people regardless of their background and gender, and enhances women's empowerment.



ECONOMIC DEVELOPMENT PILLAR



Goal 7.1

This CID program seeks to support access to affordable, reliable and modern energy services.



Goal 8.3

MSMEs are one of the target beneficiaries of this CID program, including promoting culture, tourism and local products.



Goal 10.3

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Increasing income and welfare to reduce economic disparities that exist in society, including eliminating discriminatory laws and practices.



ENVIRONMENTAL DEVELOPMENT PILLAR



Target 6.2

This CID program supports the availability of clean water and proper sanitation for the communities.

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Target 11.6

Different types of waste managed through various activities so they can be reused to support the creation of a cleaner and healthier environment.



Target 13.2

Environmental preservation, waste management, and use of technology are carried out in the CID activities to reduce the negative impacts of climate change.



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Target 14.1, 14.2, 14.4, 14.b This CID program supports the preservation of marine ecosystems, coastlines, and helps improve the empowerment of fishermen.



Target 15.b

Mobilizing critical resources from all sources and levels to finance sustainable forest management.

GRI 302 - Energy 2016

CID activities to support new and renewable energy that can be used by the communities.



CID activities to reduce emissions through environmental preservation.

GRI 303: Water and Effluent 2018

CID activities to manage liquid waste and preserve water.



GRI guidelines are also used based on relevant disclosures for the topics and impacts achieved by each empowerment program.

GRI 304: Biodiversity

CID activities to protect biodiversity, including the release and captive breeding of endemic fauna.

GRI 306 - Limbah 2020

Waste management is one of CID's main activities to preserve the environment.

GRI 413: Local Communities

Social investment is carried out through the involvement and development of local communities as beneficiaries of the CID activities.

Preface

PT Pertamina Hulu Energi Subholding Upstream, PERTAMINA, carries out Community Involvement and Development (CID) activities as part of its corporate social responsibility (CSR) activities. A number of our programs are also directed to support the Sustainable Development Goals (SDGs) in accordance with the joint targets to be achieved by 2030. Each of the CID program achievements emphasizes the impact on the environmental, social and economic performance.

The CID programs are also based on the problems and potential that exists in any given area, as well as the community's priority needs. Therefore, the programs we run are right on target and can answer the challenges and constraints faced. We also collaborate with stakeholders to support each other, and we supervise the empowerment programs in order to achieve community independency.

This book presents the different kinds of empowerment programs carried out by the Company, and is divided into environmental, social and governance activities. In the environmental sector, we pay attention to environmental preservation including programs related to biodiversity protection, waste management, renewable energy sources, and the provision of clean water and proper sanitation for local communities. The environmental CID program has also made an impact on addressing climate change by reducing emissions.

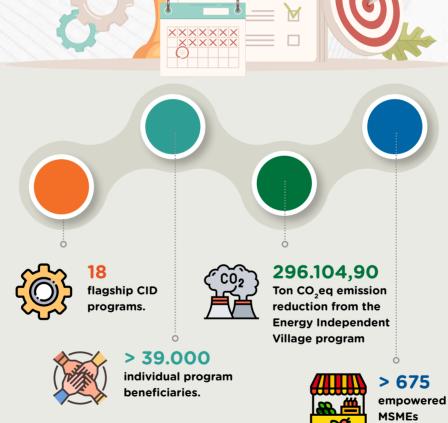
We have also carried out empowerment activities in the social sector, grouped into health, education, economy and food security sectors. Our support for the communities helps increase their capacity to develop skills to support their independence. In the health sector, we strive to instigate ways to meet the nutritional needs of children to prevent stunting, combat dengue fever, and other ailments. In the education sector, the programs implemented have focused on improving the quality of formal and nonformal education, including in remote areas. Through these programs, we hope that the communities will reap direct or indirect benefits, so they can continue to survive.

In addition to the environmental and social activities, the CID program also covers governance by explaining the basis for its instigation and institutional structure, as well as the involvement of stakeholders in all activities. We continue to build good governance so we can strengthen the CID program through the planning, implementation, monitoring and evaluation stages.

PT Pertamina Hulu Energi Subholding Upstream, PERTAMINA, hopes that the CID program can make a real contribution to people's welfare, support Sustainable Development Goals (SDGs), and provide good 'best practices'.

Jakarta, August 2023 **Wiko Migantoro** President Director

2022 Achievements



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Awards

INTERNATIONAL

NATIONAL



The 14th Annual Global CSR Award: Best Environmental

Pertamina Hulu Mahakam

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Best Community Programme PEP Sangasanga

Global Corporate Sustainability Award 2022: Great Practice Pertamina Hulu Mahakam

International 14th Annual Global CSR Award 2022 Gold in Empowerment of Women Award PEP Tarakan Field dan PEP Tambun Field

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CSR and Sustainable Village Development (PDB) Awards 2022: PEP Prabumulih Field (Gold) and Pertamina Hulu Rokan (Silver) TOP CSR Awards - TOP BUSINESS 2022: 20 Awards Indonesia Green Award (IGA) - The La Tofi School of CSR 2022: 16 Awards

Corporate Forum For CSR Development (CFCD) 2022: 11 Indonesian SDGs or ISDA Awards Award for Superior Appropriate Technology (TTG) from the Ministry of Villages, Development of Disadvantaged Regions and Transmigration (Kemendes PDTT) November 2022 - PT Pertamina EP Bunyu Field Certificate of Appreciation for Commitment to "Development of Appropriate Technology for the Archipelago" from the Ministry of Villages, Development of Disadvantaged Regions and Transmigration (Kemendes PDTT) November 2022 – PT Pertamina Hulu Sanga Sanga

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Subroto Award - Award from Subang Regency for implementing joint disaster management as a form of CSR through BPBD – PEP Subang Field Nusantara Award - Through the Independent and Food Security (Jari Tangan) Farming Program in Cidenok and Bongas Wetan Villages. Sumberjaya District, Majalengka Regency -PEP Jatibarang Field Energy and Mineral Resources Dharma Karya in 2022 - PEP Limau Field Winner in the Green Forestry & Plantation Category: Pertamina Hulu Energi (PHE)

Supporting Sustainable Development Goals





Energy Independent Village



Protecting Biodiversity



Waste Management Efforts



Provision of Clean Water and Sanitation



-W Maintaining Public Health



Improving Education



Developing the Economy



Food Security



Empowerment of Vulnerable Groups and Women



Community Development and Engagement Concept

PT Pertamina Hulu Energi Subholding Upstream, PERTAMINA, aligns its CID program based on ISO 26000 through 7 aspects as the main core activities.



COMMUNITY ENGAGEMENT

The CID-CSR is in accordance with good governance by involving the communities, increasing internal understanding and capability, and developing a framework.



TECHNOLOGY DEVELOPMENT AND ACCESS

Creating innovation and replication based on the appropriate technology.



EDUCATION AND CULTURE

Prioritizing education and maintaining local culture.



REVENUE CREATION

Strengthening the community's economy through community economic empowerment, and encouraging selfreliance.



SOCIAL INVESTMENT

Operating as a social license, and strengthening social relations by maintaining harmonization with the communities to reduce social conflicts.



JOB CREATION AND SKILLS DEVELOPMENT

Building the capacity of Human Capital (HC) and improving HC capabilities both internally (employees) and externally (the surrounding communities).



HEALTH

Protecting the environment by paying attention to environmental sustainability.

Environment Protecting the Earth, Safeguarding Generations



People need energy to live, and is a resource taken from nature, therefore PHE Subholding Upstream is looking to help people meet their energy needs by switching to renewable energy sources.

Energy Independent Villages [ISO.6.8.3][ISO.6.8.9] [SDGs.13.2.2.(a)]

[SDGs.7.1.2] [SDGs.7.1.2.(a)] [302-4][305-5][306-2]

Waste Energy for Community (WASTECO)

As waste processing is still a problem in Indonesia. PT Pertamina Hulu Mahakam (PHM) uses the Waste Energy For Community (WASTECO) program. Based on the Ministry of Environment and Forestry (KLHK) data, in 2020 Indonesia produced 67.8 tons of waste. Most of the waste was still managed conventionally so problems at the landfills (TPAS) were not properly resolved. PHM developed the WASTECO program in collaboration with the Balikpapan City Government through the Service Technical Implementation Unit (UPTD) at the Manggar TPAS, in Balikpapan City, East Kalimantan, where waste is converted into methane gas, which can be used as a renewable energy source to provide gas for households and micro, small and medium enterprises (MSMEs).



By the end of 2022, 304 houses and 28 MSMEs used methane gas through a 7,640 m long distribution pipeline network. This program succeeded in reducing household spending for cooking by Rp243 million/year, encouraging the formation of new social institutions and contributing to environmental improvements to reduce waste generation. 594,000 m³/year of waste is converted into methane gas and can reduce greenhouse gas emissions by 288,449 tons of CO₂eq/year. Methane gas is also used in the PERTALISA Mini Gas Power Plant for lighting at the Manggar TPAS at a rate of 40 kilo Watts/hour.

The WASTECO program's Social Return on Investment (SROI) was 1:10.08 in 2021 and 1:17.96 in 2022. In addition, the Company conducted a Community Satisfaction Index (IKM) survey that received a score of 88.5 in the 'Very Good' category.



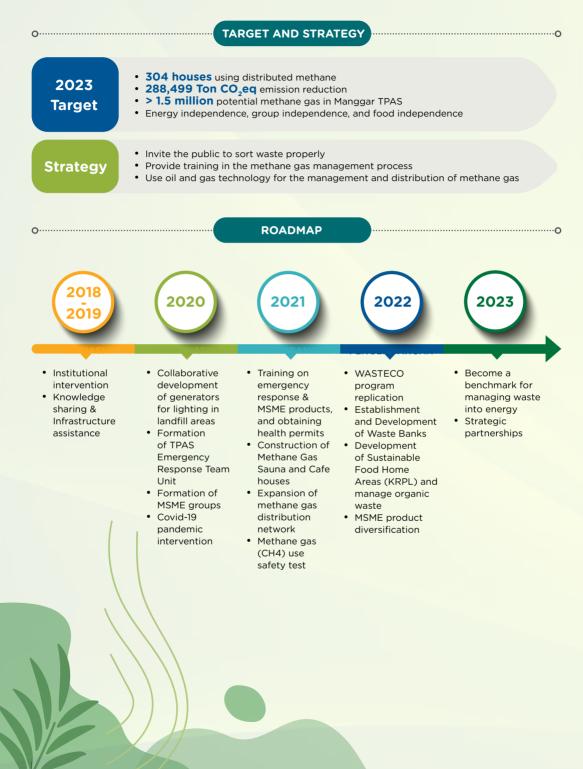
IDENTIFICATION

In Balikpapan City, up to **480 tons** of urban waste is generated per day. The waste from various regions is sent to the Manggar TPAS, and results show that **49%** of the waste is organic waste that causes bad odors, water pollution, and air pollution. Around the Manggar TPAS there are also scavengers who live with minimal access to health and the economy. **1.5 million** m³/year of this waste can potentially be used to produce methane gas. However after an identification program was carried out, only **0.984%** or less than **1%** was being used.



The WASTECO program aims to contribute to the 5Ps principle as follows:

- Reducing the impact of greenhouse gas (GHG) emissions and carbon emissions and reducing environmental pollution from the landfill leachate
- Providing access to more affordable energy to reduce electricityoperating costs and save on cooking costs
- Helping scavengers at Manggar TPAS gain access to the BPJS Health program, and strengthening institutions involved in the program
- Encouraging multi-stakeholder synergies with all stakeholders including the communities, government and related agencies, international NGOs, universities and social foundation
- Encouraging the formation of an inclusive society and changing people's perceptions and behavior in the use of methane gas



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PROGRAM ACHIEVEMENTS

The first innovation for waste management in Indonesia was the WASTECO method, which has obtained Intellectual Property Rights (HAKI), and is in the process of obtaining a simple patent in 2023

Economy

Mellbert

- 288,449 CO²eq/year reduction in Greenhouse Gas (GHG) Emissions
- 594,000 m₃/year methane gas used by residents and Manggar TPAS
- 1,744 liters/year of fuel savings for internal TPAS
- 96 m3/year saving of firewood in tofu factories
- 28 MSMEs use methane gas in their business
- 1 Methane Manager established to become the driving force for renewable energy campaigns
- 1 Emergency Response Team trained in dealing with disasters and emergencies
- 1: 17.96 SROI Study Results
- **88.5** Community Satisfaction Index Results in the 'Very Good' category

 Rp273.6 million/year Savings in family cooking costs

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- **Rp42.6 million/year** from Methane Gas cash dues
- **10,944 cylinders/year** from Reduced use of 3kg Elpiji Gas (Subsidized)
- Rp52 million/year MSME turnover for managing cafes and outlets
- **Rp17.4 million/year** in Manggar TPAS electricity savings
- 304 Connected Houses using methane gas
- 1,095 residents/310 households able to use methane gas safely
- 27 Women with the capacity to manage the distribution of methane gas
- Replication of the WASTECO program in 4 locations in East Kalimantan, South Kalimantan and Bali

Kubu Tribe Energy

PHE Jambi Merang is concerned about the Kubu Tribe (KT) community that has limited access to energy sources. The Company has developed renewable energy through an empowerment program based on potential and needs, as well as the characteristics of the local community. Renewable energy development is carried out through solar cell innovations that can reach up to 12 resident's homes.





RISK IDENTIFICATION

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The Kubu Tribe community in Hamlet VII, Muara Medak Village, Bayung Lencir, Musi Banyuasin, South Sumatra, leads a nomadic lifestyle and does not have access to adequate information. They also have to live in houses that do not meet the building safety requirements, and the quality of education in the area is still low.

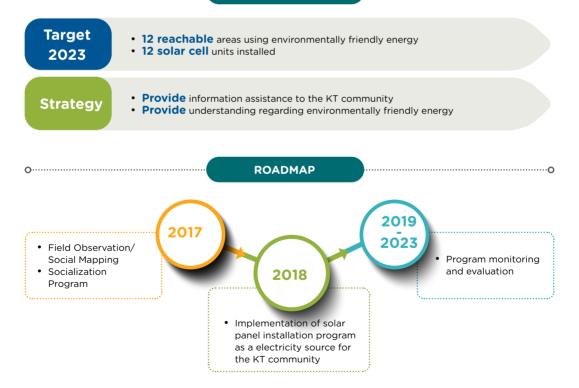


PROGRAM OBJECTIVES

- Use renewable energy to facilitate KT community activities.
- Provide easy access to electricity for the KT community.
- Introduce environmentally friendly energy to the KT community.

TARGET AND STRATEGY

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Protecting Biodiversity [ISO.6.8.3][ISO.6.8.9][SDGs.15.b.1][SDGs.15.b.1.(a)] [SDGs.14.2.1*] [304-3]

Participating in biodiversity protection and preservation to protect the earth to create a better society.

Sabira Island Hawksbill Turtle **Conservation Program**

PHE OSES, which has part of its operational area in the DKI Jakarta Province, runs an endemic animals conservation program to on Sabira Island, which includes the Hawksbill Turtle (Eretmochelys imbricata). The World Conservation Union classifies the Hawksbill Turtle as a critically endangered species that needs to be protected, and it is included in the International Union for Conservation of Nature (IUCN). Also, based on the Minister of Environment and Forestry Regulation No. 20 of 2018 concerning protected species and animals, and the Minister of Environment and Forestry Regulation No. 106 of 2018 concerning changes to the Minister of Environment and Forestry Regulation No. 20 of 2018 states there are 6 kinds of turtles classified as protected animals by law.





Biodiversity conservation and the preservation of the endangered hawksbill turtle is carried out in collaboration with the people of Sabira Island, Karang Taruna Unit 3, Pulau Harapan Village Government, and the DKI Jakarta Natural Resources Conservation Agency (BKSDA). PHE OSES has created a Nature area (Pondok Semi Alam) in collaboration with local institutions as a Hawksbill Turtle preservation area.

For Hawksbill Turtle conservation, PHE OSES also involves the communities by providing education to support its Hawksbill Turtle conservation efforts. The aim is stop the communities from harvesting turtle eggs or the turtles themselves from their habitat to prevent turtle scarcity and habitat destruction.

In addition, PHE OSES has planted mangroves with the aim of greening the area along the coast so that it is not barren. Mangrove planting serves to prepare the habitat for the Hawksbill Turtle, as well as reduce abrasion and intrusion of seawater towards the land.



The Hawksbill Turtle (Eretmochelys imbricata) is an endemic animals whose population is threatened due to damage to its coastal habitat and feeding grounds, turtles dying due to fishing activities, inadequate management of conservation techniques, climate change, disease, and harvesting of turtles and their eggs.



PROGRAM OBJECTIVES

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- Carry out biodiversity conservation activities
- Preserve the hawksbill turtle
 habitat
- Release hawksbill turtles

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- Rehabilitate critical land on Sabira
 Island
- Optimize the processed mangrove forests







Climate Change Mitigation and Adaptation

In Balongan II Block Beach, Indramayu, abrasion is a regular occurrence, and causes a negative impact on the surrounding environment. PHE ONWJ has responded to this problem by creating a wave breaker (APO) to absorb some of the wave energy so as to control abrasion. The materials for making the APO come from used motorcycle and bicycle tires from local workshops and from the Company.

APO are constructed jointly with the community and the Balongan Rembug Forum. To date, the APO have used 1,000 tires consisting of 500 motorbike tires, 300 truck tires and 200 car tires. Even though they use simple materials, APO are considered relatively efficient as they can help to break waves optimally. PHE ONWJ has also reforested coastal areas by planting mangroves, sea cypresses, api-api (Avicennia), mangroves, and Rhizophora. After the installation of the APO, sedimentation along the coast of Balongan Village now covers an area of 213 m² so that the residents' settlements and ponds can be protected from sea waves.



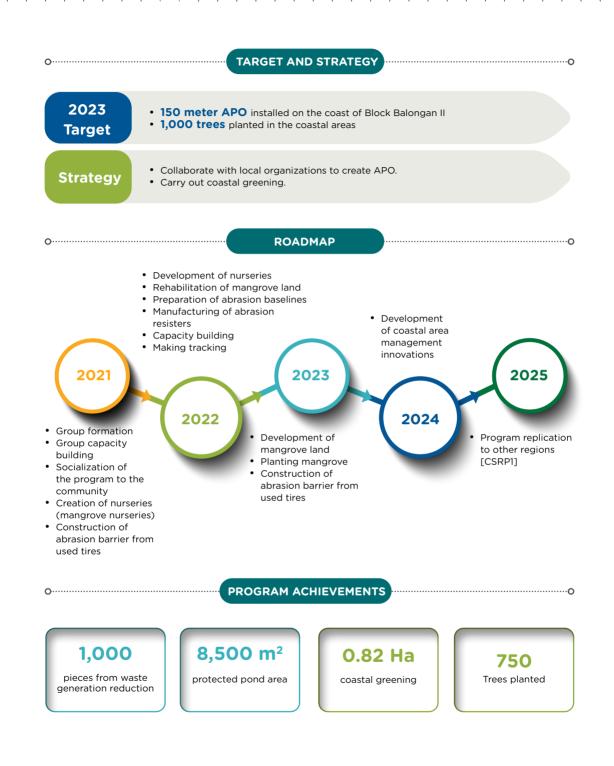
RISK IDENTIFICATION

Abrasion can cause coastline

shrinkage and damage ecosystems, including mangroves and mangrove forests along the coast.



- Prevent waves from entering settlements and ponds and cause damage.
- Carry out coastal greening.



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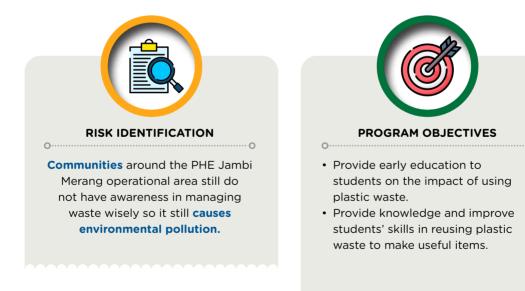
Waste Management Efforts [ISO.6.8.3][ISO.6.8.9][SDGs.6.2.1*] [SDGs.14.1.1.(a)][SDGs.13.2.2.(a)][SDGs.8.3.1*][SDGs.8.9.1.(b)][SDGs.2.4.1][SDGs.11.6.1][SDGs.11.6.1.(a)][306-2]

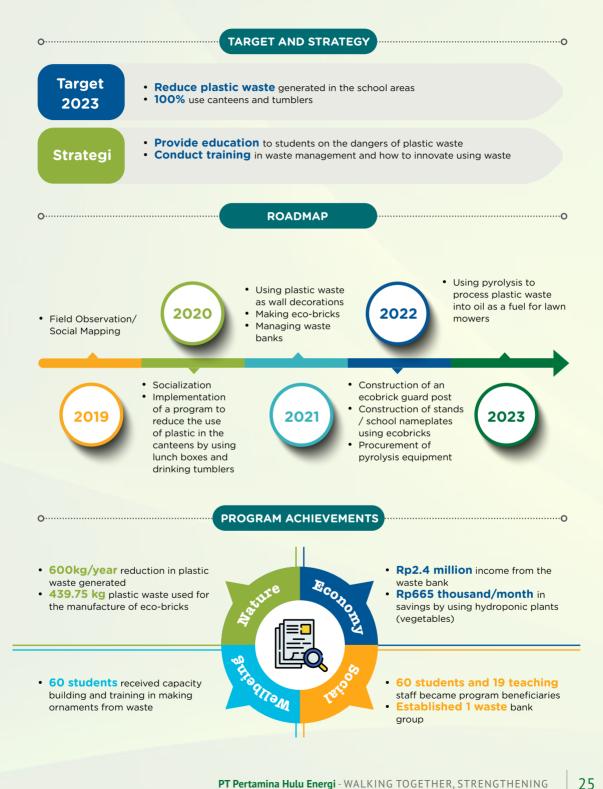


Technology-Based Zero Plastic Planet Friendly School

The Technology-Based Zero Plastic Planet Friendly School is an ongoing community empowerment program that encourages the independence of people who love the earth (sustainable growth with green communities). Activities carried out by PHE Jambi Merang for children at SDN 2 Sukajaya, Mekar Jaya Village, Bayung Lencir District, Musi Banyuasin Regency, South Sumatra and the community includes increasing knowledge of the five community development program pillars, namely improving the quality of education, improving the quality of health services, protecting the environment, and infrastructure improvements.

Through this program, children will continue to increase their creativity by reusing plastic waste, including bottle caps to make wallpaper, ecobricks to build guardhouses, and other handicrafts. This program will also encourage students to not use single-use plastics at school.





Perlis Loves the Environment

Perlis Loves the Environment is a community empowerment program that began in 2018 with an emphasis on turning plastic waste from the Perlis Village into brick products, paving blocks and closets using plastic recycled. In 2022, the group developed an innovative program by using microfish that had little economic value as an ingredient for liquid organic fertilizer (POC) or fish amino acid. The group receives economic benefits from the sale of its POC products and also reduces the negative environmental impact from the previous bad smells.

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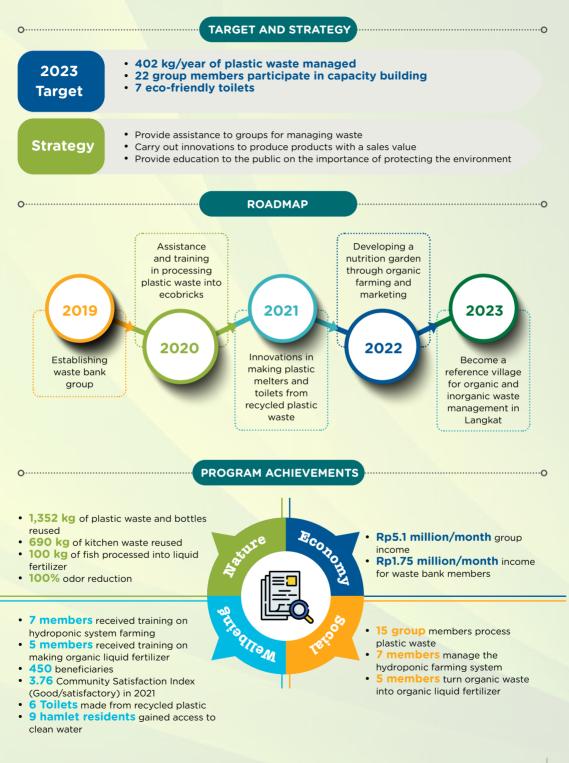




Perlis Village is located in the West Berandan District, Langkat, North Sumatra, and is surrounded by rivers, resulting in most of the population working as fishermen. In 2019, **106 residents** of Perlis Village were registered as underprivileged residents. Research also found that **80% of the community** disposed of litter in the sea, and that **302 Perlis residents** had no awareness of sanitation, so many toilets were located behind their houses that were built on stilts. **These conditions created an unhealthy environment in Perlis Village and posed many health risks.**



- Convert environmentally friendly waste into more valuable products.
- Develop Perlis Village as a pilot village for waste management in Langkat.



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Lake Shuji Lembak Tourism Village (Mbak Dewi Shuji)

PEP Prabumulih Field is located in Regional 1 Sumatra and has an empowerment program for the Lake Shuji Tourism Village (Mbak Dewi Shuji). This program integrates 3 activities comprising an Environmental Awareness Group (Pokdarling), the Lake Shuji Fire Disaster Response Program (Protaberdasi), and the Tourism Awareness Group (Pokdarwis). By 2022, 61 people had joined the Mbak Dewi Shuji program as members.



Pokdarling focuses on environmental management especially waste management that pollutes Lake Shuji. Many people dispose of their garbage around the lake, as the distance from the village to the final landfill site (TPA) is around 107 km away. Organic waste can be used to make compost using a three-step composting tool, and plastic waste can be recycled as material for making furniture and boats.

The Protaberdasi group focuses on fire disaster response, and has established a synergy with the K3L Professional Association and PEP Prabumulih Field to further strengthen these institutions in any disaster response. As this area is a hotspot risk area, PEP Prabumulih with group members has built disaster preparedness posts, water storage tanks, and fire disaster facilities. Group members are also given training in dealing with emergency situations, so they can quickly deal with any ongoing disaster.

The Company also involves women's groups as members of Pokdarwis to manage the Lake Shuji tourism area. The Pokdarwis activities include responsibility for aquaponic cultivation of fish and vegetables, and producing superior products such as crackers and kemplang. There is also a Shuji Reading Corner with a web-app, which includes a Travel Pocket Book as a guide for tourists visiting Lake Shuji.

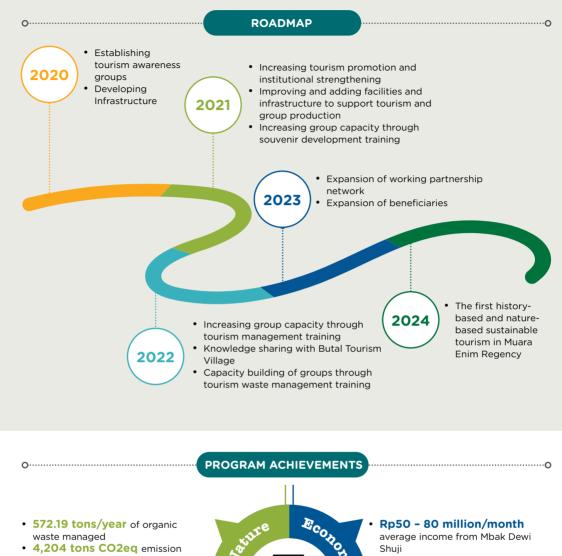


Within the Muara Enim Regency, South Sumatra Province there is a historic lake called Lake Shuji located near Lembak Village. Its location has resulted in **183.8 thousand** tons of waste polluting this lake and the surrounding environment. In addition to the waste problem, Muara Enim Regency also faces a risk of land and forest fires that once burnt **2 hectares of rubber plantations, causing haze.**

	 As a means of communication to maintain social interaction and mutual cooperation between communities. As a means of absorbing labor to improve the Lembak
	Village people's welfare.To become the first history-based and nature-based
	tourism sector in Muara Enim Regency, South Sumatra.
	 To become an educational center based on nature
	sustainability and product excellence in Muara Enim
PROGRAM	Regency, South Sumatra.
OBJECTIVES	 To become a center for processing organic and inorganic
	o waste in Muara Enim Regency, South.
0	TARGET AND STRATEGY

Target 2023	 86 absorption of labor from local communities 50% increase in the number of tourists to Lake Shuji Zero garbage pollution in Shuji Lake
Strategi	 Provide capacity building and skills development to group members in managing the program Provide a variety of supporting facilities for program implementation Establish partnerships with several institutions

PT Pertamina Hulu Energi - WALKING TOGETHER, STRENGTHENING HOPE



- 4,204 tons CO2eq emission reduction
- 12 poor households removed from the Integrated Social Welfare Data (DTKS)
- 12 groups and 86 local communities received capacity building

average income from Mbak Dewi Shuii

- 20 stakeholders participated in creating the economic chain
- 19,701 indirect beneficiaries
- 61 members joined Pokdarwis, 10 members joined Pokdarling, 15 members joined Protaberdasi

Serie allow

Clean, Cultured, and Independent Kroya (Jaga Bumi)

The Jaga Bumi Program in Kroya Village involves the Clean Prosperous Community Garbage Bank (MBS) group consisting of 7 male members. The MBS Garbage Bank has 5 main activities, namely:

MBS Bank	Waste saving activities managed by members of the waste bank.		
MBS Carry	Garbage is picked up directly at residents' homes by members of the waste bank, 4 times a week, for a fee of Rp15,000-Rp20,000 per month.		
MBS Academy	Waste management educational activities for the community, students and children in the village, including education on the development of the local language (Krama Indramayu) and international languages.		
MBS Brilliant	Activities to create product innovations and integrated waste management systems.		
MBS Society	Provision of social assistance, in the form of material and labor carried out by members of the waste bank.		

This program covers waste collection in 15 RT areas in Kroya Village, Kroya District, Indramayu Regency covering an area of 460.53 Ha. Collection takes place 3 times within a 10-day period, with up to 3 tons of waste transported. Every month, the amount of waste transported can reach 27 tons.





RISK IDENTIFICATION

Kroya Village has **7,198 residents** with the potential to produce **3.5 tons** of waste per day. However, the current waste management in the community cannot cope creating waste problems for the environment and public health.



PROGRAM OBJECTIVES

- Increase the knowledge, attitudes and behavior of the Kroya Village community in waste management.
- Increase the positive impact of waste management based on the Waste Bank from the environmental, social and economic aspects.



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PROGRAM ACHIEVEMENTS

 22.5 ton/month of household waste has been successfully managed

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- 2 irrigation rivers managed
- 200 m² of land is used for waste storage
- Has become a flagship program in Kroya District, Indramayu Regency
- 5 vulnerable groups improved their welfare
- SELESCOTON SELESCOTON
- Rp600 thousand-Rp1 million / month income for group members
 Rp5-10 million/month group
 - income

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- **Rp100—200 thousand/month** income from customer savings
- **Rp1-2 million/month** from partner fees (PT PDC) and businesses
- **7 members** in the waste bank group
- 279 people as waste bank customers
- > 10 partners involved in waste bank management
- **15 students** studying at MBS Academy

Care About Waste Community (Melimpah)

Waste is a problem in Kali Baru Village, Bekasi, West Java where a large amount is generated. PEP Zone 7 Tambun Field has instigated the Care About Waste Community (Melimpah) program in collaboration with the Bekasi City Environmental Service to deal with waste problems in the area.

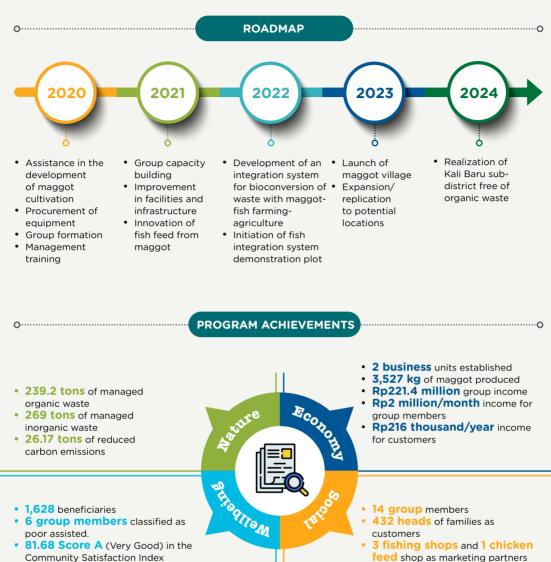
1 waste bank group has been established, called the Dadali Waste Bank with 14 members. The waste bank group also received a letter of approval from the Kali Baru Village, Bekasi, West Java. To date, there are 432 people in the Kali Baru Village who are customers of the waste bank.



The Dadali Waste Bank Group has also prepared a guidebook on waste management using maggot cultivation. This book contains the group's efforts covering each stage of the program. Every week the group transports 2-3 tons of waste, consisting of organic and inorganic waste. The organic waste collected is processed into 40 liters of liquid fertilizer and 60 kg of dry organic fertilizer. In addition, PEP Zone 7 Tambun Field has also provided a megabox as a place for organic waste disposal and for maggot cultivation. Maggots are routinely picked up by waste bank administrators every 2 weeks and replaced with new maggots. This waste management has made the environment cleaner and healthier and can reduce carbon emissions by 26.17 tons.







feed shop as marketing partners

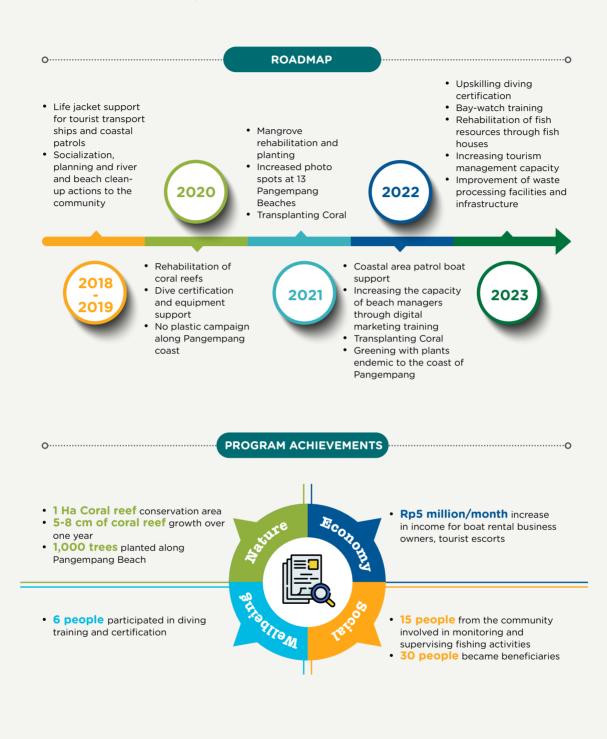
Protect Our Coast

The Protect Our Coast Program is a community empowerment programs carried out by PHSS in the Muara Badak District, Kutai Kartanegara Regency, East Kalimantan. This program prioritizes tourism development to support the community's economic independence, and includes efforts to preserve the coastal environment, especially coral reefs, mangrove ecosystems and endemic plants. This program's activities focus on marine life conservation (coral reefs and turtles) and maintenance of coastal areas along the coast of Muara Badak, Kutai Kartanegara.









Kuas Jirak Jirak Business Group

The Jirak Business Group is a program carried out by PT Pertamina EP Tanjung Field. The Jirak Village Business Group members consist of housewives who live in Jirak Village, Pugaan District, Tabalong Regency, South Kalimantan. This program focuses on empowering women to use the potential of local natural resources, including the processing of shredded catfish (bonile), shredded snakehead fish (boniga), and shredded tilapia (bonila) as well as albumin from snakehead fish extract. This program also aims to support the Tabalong Government fish consumption program.

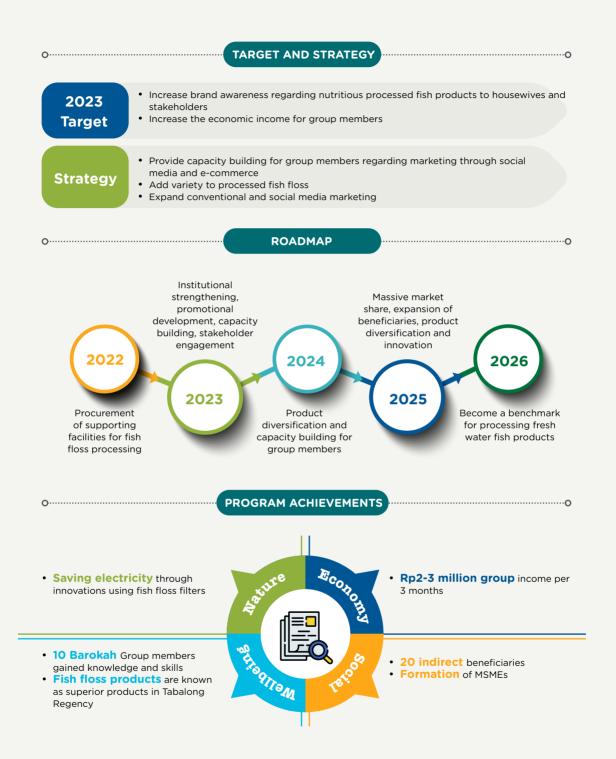




During the COVID-19 pandemic the people of Jirak Village, especially the housewives, were no longer productive. This gave rise to a stigma that many of the people in Jirak Village were lazy. This stigma was reinforced by the results of research related to community welfare in 2022 that showed that **50% of the community was living in poor conditions** (Sukmawati, 2023).



- Provide group skills for product production, packaging and marketing.
- Increase group income through product sales.
- Fulfill public nutrition from ready-to-eat fish products.



Sungai Hitam Sustainable Ecoparian (PEP Sangasanga)

The Sungai Hitam Sustainable Ecoriparian Program (SHL) is a community empowerment programs carried out by PEP Sangasanga Field in Kampung Lama Village, Samboja District, Kutai Kartanegara Regency, East Kalimantan. This program's focus is on developing sustainable tourism based on proboscis monkeys and their habitat to support the economic independence of the people in the Sungai Hitam Region.

The tour involves tours along the river using ketinting (boats) in the Sungai Hitam proboscis monkey conservation area. There are also Sungai Hitam Lestari SMEs that use mangrove plants to be processed into food and beverage souvenir products such as klappetart, syrup, jam and jeruju leaf tea.





The Sungai Hitam area is a non-conservation area covering an area of approximately **67.6 ha** and is proboscis monkey's natural habitat. This area has experienced ecological changes due to the conversion of green land in the upstream and downstream areas. Green land in the downstream area has been converted into plantations, ponds, and residential areas, causing the proboscis monkey habitat area in Sungai Hitam to decrease. At the same time, the upstream area is being converted into coal mining land that will have an impact on the ecosystem, and there is coal waste that can pollute the environment. This land conversion poses a great pressure and threat to the life of the proboscis monkeys.

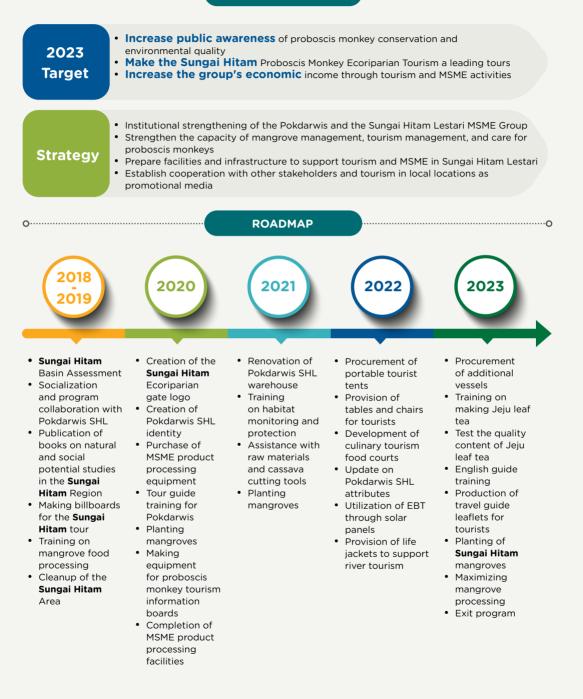


- Increase the number of proboscis monkeys.
- Increase protection efforts by conserving and protecting proboscis monkeys and their habitat.
- Increase public awareness of environmental conditions through the management of the Sungai Hitam Ecoriparian Area.
- Create new job opportunities and improve the community's economy through tourism and MSME activities.

TARGET AND STRATEGY

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Economy

- 120 ha of mangrove forest area
- 2,500 mangrove seedlings planted
- 400 proboscis monkey conserved
- **5 km** of river cleaning in the Sungai Hitam watershed
- Absorption of carbon emissions by the mangrove forest area reached 831.94 tons CO₂eq/ year
- 37 people experienced improvement due to environmental preservation behavior
- Sungai Hitam Lestari became a Kalpataru Candidate in 2020
- Creation of new jobs for the people in Kampung Lama

- Product diversification
- Rp70 million/year group income
 Rp 1.2 million/year saving on electricity costs through EBT solar panels

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- Two institutions were established: Pokdarwis Sungai Hitam Lestari and UMKM Sungai Hitam Lestari
- 37 direct beneficiaries
- 2,610 local tourists and 1,800 foreign tourists visited during 2022

Community Self-help Mobile Waste Program (Salin Swara)

The Salin Swara Program is a community integrated waste management empowerment program including waste from the community and interpretation of the results of life cycle analysis (LCA) and community groups to optimize any economic impact. Activities included saving waste and using non-B3 solid waste from the Company. The group also conducts waste segregation, and currently handles 22 types of segregated waste.

The activities carried out by the Telihan Recycle group at the waste bank also uses technology for processing the Company's non-B3 (aluminum) waste and workshop aluminum into ingots and ship propellers. In addition, organic waste is used for maggot cultivation, while the Waste Bank manages inorganic waste.





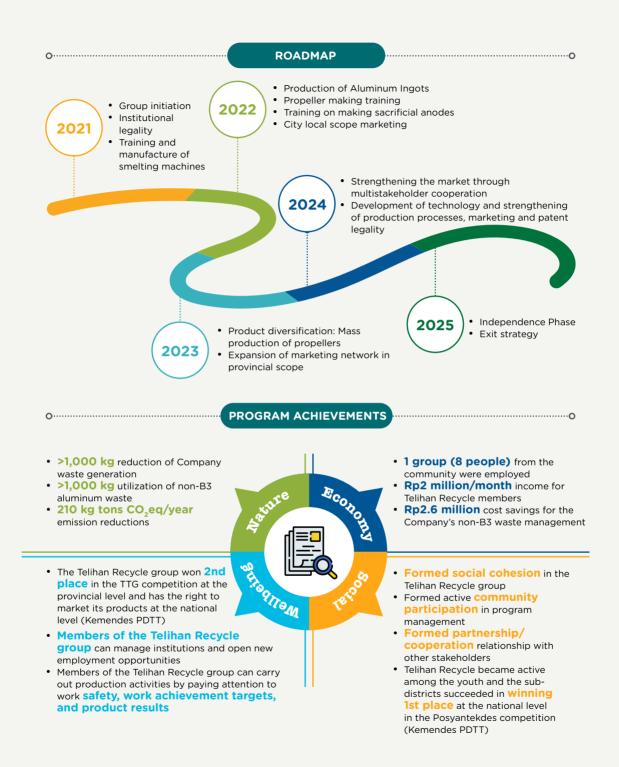
PROGRAM	 Reduce the environmental impact of the Company's aluminum non-B3 waste generation not being utilized. Resource efficiency through recovering scrap aluminum as a valuable feedstock and reducing dependence on new natural resources. Environmental sustainability by reducing waste disposed at the TPA and using it for products by supporting the recycling principle. Open up new jobs opportunities from the use of non-B3 waste.
OBJECTIVES	 Increase community participation in saving environmental impacts.

TARGET AND STRATEGY

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2023 Target	 Creation of groups concerned with the environment Community groups master the concept of waste management The groups can develop and market products The groups can achieves independence 	
Strategy	 Conduct social mapping and field surveys Providing training / socialization / workshops / seminars and facilities Conduct discussion forums to formulate product development innovations Provide assistance, access to exhibitions, and cooperation for product marketing 	

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Karanganyar is Green and Environmentally Friendly (Kejora)

This program focuses on integrated waste management by using organic waste in collaboration with 12 people in the Ampel Berseri Women Farmers Group (KWT), 10 people in the Multipurpose Waste Bank, and 8 people in the Anyar Kitchen. The Multipurpose Waste Bank is tasked with collecting organic waste from each household to be processed by Ampel Berseri KWT into organic fertilizer as planting media. In addition, Anyar Kitchen is tasked with making agricultural products.

To increase the community's enthusiasm to maintain a clean environment, the Company held a Green Karanganyar Contest attended by 10 RWs. These communities are competing to make the surrounding environment cleaner, cooler and healthier.



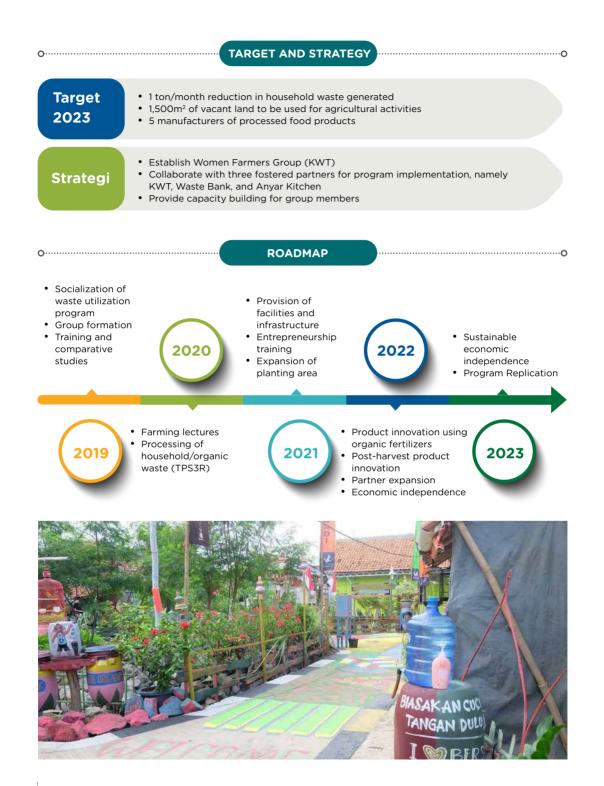


In Karanganyar Village, Karanganyar District, Indramayu Regency, West Java, a lot of household waste is generated and is not processed properly. This waste is often just dumped in front of the house and allowed to decompose naturally, causing an unpleasant odor, an unsightly view, and flies, which is detrimental to public health. Most residents still burn their garbage and cause air pollution and GHG emissions. In addition, there is a lot of garbage from agricultural activities found in the rivers.



• Educate the community on waste management.

- Carry out waste utilization and management.
- Create waste-based products with economic value.
- Use yards as productive agricultural land by waste products.



Seliegiles,

Economy

 1,000 m² of vacant land used for agricultural land

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- 1,000 kg of organic solid waste processed
- 300 liters of liquid waste treated
- >400 toga plants, vegetables, fruits, and ornamental plants

- 652.35 kg total fresh plants produced
- **426 liters** of local micro organism (MOL) produced
- 750 kg of solid organic fertilizer produced
- Rp200-Rp500 thousand/ member income
- Rp11.8 million group income
- 15 independent beneficiaries

- **13,371 people** instigated environmental management
- 5 schools received an increase in waste management capacity
- 12 people received waste treatment skills

 3 target groups (KWT Ampel Berseri, Multipurpose Waste Bank, Anyar Kitchen Food Processing)
 4 Product varieties produced

Sustainable Kompas

Based on the results of the 2021 social mapping, Makartitama Village, Peninjauan District, Ogan Komering Ulu Regency, South Sumatra had a waste generation problem with 7.78 ton/day/district. For this reason, PT Pertamina Hulu Energi Ogan Komering is seeking to overcome this problem through the PHE Ogan Komering Synergy Sustainable Waste Management Group (Kompas Lestari).

In addition to maggots that are processed ready to be marketed as animal feed and fish feed, the Kompas Lestari group has also innovated products in the form of liquid fertilizer to replace pesticides, and chemical fertilizers made from maggot waste for plants that are both cheap and easy to access to fertilize plants in the reclamation area.





RISK IDENTIFICATION

The people of Makatitama Village do not have an organic waste management system, so any waste generated is disposed of through sewers, or in the yards of the houses, and this causes bad odors, environmental pollution, and is a source for diseases.



PROGRAM OBJECTIVES

• Convert organic waste into products that have beneficial value.

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- Prevent environmental pollution.
- Increase people's income.

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TARGET AND STRATEGY

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2023

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Target

556 Family Heads in Makatitama Village produce organic waste every day
7 people and 12 management members in the waste management group

Strategy

- Provide complete infrastructure assistance with maggot cultivation facilities
- Provide training to cultivate maggots





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• 100 kg/day reduction in organic waste generated
• Reduction in the use of pesticides
• 556 Family Heads resolved the problem of organic waste

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Provision of Clean Water and Sanitation [ISO.6.8.3][ISO.6.8.3]

[ISO.6.8.9][SDGs.4.a.1*][SDGs.14.2.1*] [SDGs.8.9.1.(b)][303-1][303-2][304-3]



Love the Earth with Zero Plastic School PAH & IPAL

Using rainwater and Installing Wastewater Treatment systems (PAH & IPAL) at the Love the Earth With Zero Plastic School is a social responsibility program run by PHE Jambi Merang to improve the school's waste management. The program is aimed at increasing community awareness of the five pillars of the community development programs and includes improving the quality of education, improving the environment, and is targeted at teachers, students, and the communities around the school.

One of the flagship innovations developed at the school is SI PARLAN, an "Environmentally Friendly Wastewater Treatment System". This innovation is being carried out in stages, and started in 2022 when the field team findings highlighted the need to reuse rainwater and laundry wastewater from the canteen.





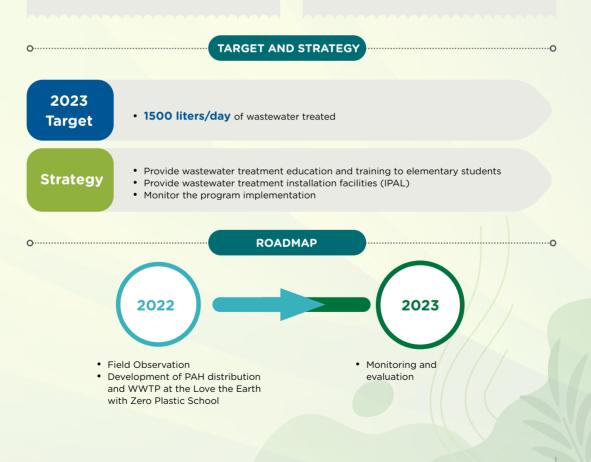
RISK IDENTIFICATION

Based on global data, **80% of the wastewater flows back** into the natural surroundings without being reprocessed. This can cause pollution to clean water and the surrounding environment and impact people's lives.



PROGRAM OBJECTIVES

- Instill awareness in students to protect the environment through wastewater treatment.
- Save ground water by reusing rainwater (PAH) in the canteens.
- Create energy savings by reusing wastewater.



Economy

- 1,000 liters/day water saved
- 300 liters/day of wastewater treated

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• 700 liters/day PAH

Mellbert 70 Adiwiyata Elementary School Students received waste management education

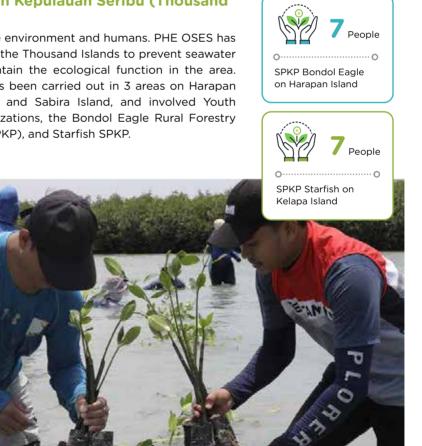
Rp50 thousand/month savings by reusing water

Building Wastewater Treatment Plant (IPAL) in the Elementary School (SD)

386 students and 19 teaching staff benefited

Mangrove Trails in Kepulauan Seribu (Thousand **Islands**)

Mangrove benefits the environment and humans. PHE OSES has planted mangroves in the Thousand Islands to prevent seawater intrusion and to maintain the ecological function in the area. Mangrove planting has been carried out in 3 areas on Harapan Island, Kelapa Island, and Sabira Island, and involved Youth Groups, Youth Organizations, the Bondol Eagle Rural Forestry Counseling Center (SPKP), and Starfish SPKP.



Mangrove planting in the Thousand Islands has a positive impact, including:

- Becomes a habitat for seawater biota.
- Acts as a sediment trap and wave barrier.
- Naturally controls freshwater availability.
- Becomes a panoramic attraction for tourists.



RISK IDENTIFICATION

The increased population and limited freshwater in the Thousand Islands has caused seawater intrusion and impacted the quality of water consumed by residents.

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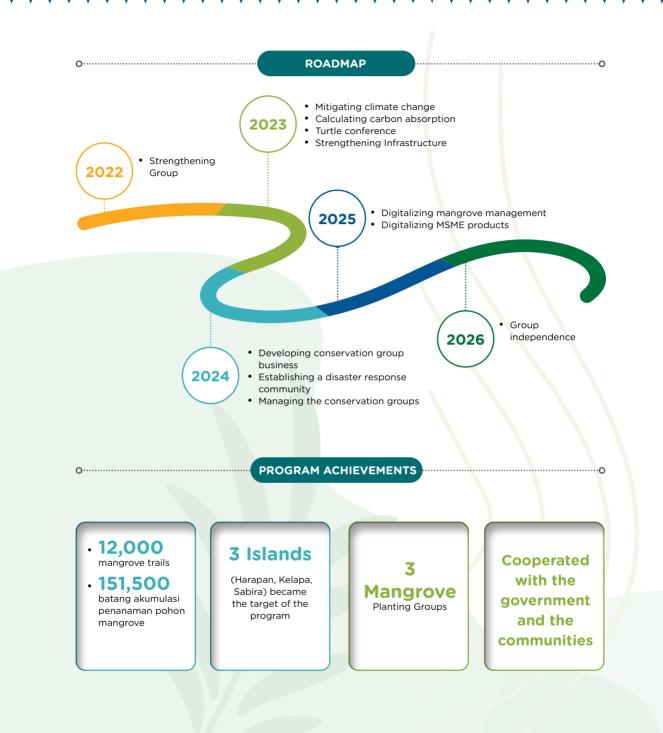


PROGRAM OBJECTIVES

- Prevent seawater intrusion into the land.
- Improve the habitat for seawater biota.
- Maintain the availability of fresh water by preventing seawater intrusion.

TARGET AND STRATEGY

Target 2023	 12,000 mangrove seeds planted each year Invite the communities and related institutions to become involved in the area's rehabilitation Promote the area for ecotourism
Strategi	 Increase public awareness to preserve the environment Massively plant and maintain mangrove seeds Synergize with cross stakeholders to make the program's implementation more effective



Social Sharing Together Building the Nation



Maintaining Public Health

[ISO.6.8.3][ISO.6.8.8][ISO.6.8.9][SDGs.6.2.1*][SDGs.1.4.1*][SDGs.2.2.1*][SDGs. 3.3.3*][413-1][413-2]

Health is a major factor for all of us and therefore, maintaining health is a shared responsibility

Pertamina's Healthy Resilient Children (ANTASENA)

In response to the 2021 Presidential Decree No. 72 concerning Accelerating the Reduction of Stunting, PHE Kampar instigated a program to help reduce stunting cases particularly in the PHE Kampar working area, in Indragiri Hulu Regency, Riau Province. Based on official data from the Riau Provincial Government in 2022, the Indragiri Hulu Regency was included in the top 5 districts with the highest prevalence of stunting in toddlers in Riau Province, with 23.6%.





PT Pertamina Hulu Energi (PHE) Kampar's efforts to accelerate a reduction in the prevalence of stunting in toddlers involves creating holistic, integrative and quality coordination patterns, synergy and synchronization between stakeholders through community empowerment activities, capacity building, infrastructure development, charitable assistance and training on producing Complementary Food for Breast Milk (MPASI) for Posyandu cadres through Pertamina's Healthy Resilient Children Program (ANTASENA). Training took place in Talang Sungai Limau Village, Rakit Kulim District, Inhu Regency with a trainer from the UPT Rakit Kulim Irmawati SGz Health Office accompanied by a Talang Sungai Limau Village Midwife.



RISK IDENTIFICATION

Indragiri Hulu Regency is included in the **top 5 districts** with the highest prevalence of stunting in toddlers in Riau Province, with **23.6%**. The high rate of stunting, especially in Talang Sungai Limau Village is caused by the Indragiri Hulu tribe (Talang Mamak Tribe) indigenous people who still adhere to local culture and pay little attention to clean and healthy living behaviors (PHBS).

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PROGRAM OBJECTIVES

- Accelerate the stunting reduction rate in the Company's work areas.
- Increase awareness, ability and willingness in the PHBS culture.
- Improve the welfare conditions of Posyandu cadres.







Stunting Alleviation Innovation Program "Posyandu Kenari"

PEP Rantau Field initiated a Stunting Alleviation Innovation program at Posyandu Kenari located in the Kebun Rantau Village, Aceh Tamiang District, Aceh Province to provide health services to 846 infants and toddlers. To date, Posyandu Kenari now has 12 PHBS cadre members and influencers, 2 baby massage instructors, and 12 people with expertise in making hand sanitizers. The Posyandu Kenari is also being encouraged to be more independent by developing moringa-based ingredients, such as Moringa Chips, Moringa Cake and Moringa Pudding. This business can increase the group's income to finance the program.



RISK IDENTIFICATION

Aceh Province is ranked 5th as the province with the highest prevalence of stunting in Indonesia. Aceh Tamiang is one of the districts in Aceh Province and 7.39% of its children show High instances of stunting, with Kebun Rantau Village being one of the highest in Aceh Tamiang District. In 2020 the prevalence of stunting in Kebun Rantau Village was 12%. This high rate of stunting is caused by several factors such as health, education, economy, and the environment. Most of the people in Kebun Rantau Village have no real awareness of clean and healthy living behaviors (PHBS).



- Provide health services to the community in Kebun Rantau Village.
- Increase the capacity of Posyandu Kenari cadres in Kebun Rantau Village.
- Develop economic activities to support health funds for Posyandu cadres and the community in Kebun Rantau Village.
- Reduce stunting in Kebun Rantau Village.

TARGET AND STRATEGY

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 32 family heads already have access to sanitation

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- 2 communal MCK built
- 2 Posyandu cadres received knowledge about stunting
- **5 toddlers** no longer suffer from stunting
- Seconomic Sconomic Street
- **Rp4.5 million** increase in income for group members through the moringa plantation business

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- 32 MCK distributed to the community in Kebun Rantau
 3 products derived from
- the moringa plant have been processed by Posyandu cadres

Infant Nutrition Improvement Program

PEP Zone 7 Tambun Field instigated a program to improve infant nutrition in collaboration with Community Health Centers in Pebayuran District, Bekasi Regency and Cibuaya District, Karawang Regency, West Java.

Cibuaya District with 60 babies and Pebayuran District with 84 babies became the target for this activity. The program was carried out by providing additional food such as milk, biscuits and vitamins, and the Company together with the Community Health Center conducted visits to the homes of babies who were identified as suffering from malnutrition.





RISK IDENTIFICATION

Based on the Ministry of Health's 2021 Indonesian Nutritional Status Survey (SSGI) results, the prevalence of stunting rate in Indonesia in 2021 was **24.4%**, and the government has set a target for prevalence of stunting to drop to **14% by 2024**. The 2021 survey results showed that several subdistricts were located in the Company's operational area including Pebayuran District, Bekasi Regency, and Cibuaya District, Karawang Regency, West Java (REFF), where a number of babies were found to be suffering from stunting and were malnourished.



PROGRAM OBJECTIVES

- Improve Infant nutrition, especially those suffering from stunting.
- Increase the degree of public health, especially for infants



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TARGET AND STRATEGY

2023 Target **Reduce stunting,** malnutrition and under nutrition rates in Babelan District, Pebayuran District, Cibuaya District, Tirtajaya District and Muara Gembong District

Strategy

- · Conduct socialization on mothers and infant health
- Provide additional food in the form of milk, biscuits and vitamins
 Train the Posyandu cadres as extension workers for prevention of
- Irain the Posyandu cadres as extension workers for prevention of stunting



Healthy Prosperous Generation in Mendala Village (Gen Smart Mendala)

A 2022 survey showed that the prevalence of stunting in Indonesia had decreased from 24.4% to 21.6% in 2022. The Indonesian government is targeting the stunting rate to decrease to 14% by 2024. Meanwhile in Mendala Village there are still 180 underprivileged families who have low understanding of meeting the nutritional needs of children. During the COVID-19 period and the restrictions on mobility the village's Posyandu activities were reduced, which led to a lack of monitoring of mothers and children health.

The Gen Smart Mendala Program focuses on improving integrated family health starting from pregnant women and toddlers through Posyandu assistance, increasing awareness of adolescent sexual health through the Adolescent Counseling Information Center (PIK-R), increasing the role of fathers in child care, and monitoring the health of the elderly.



RISK IDENTIFICATION

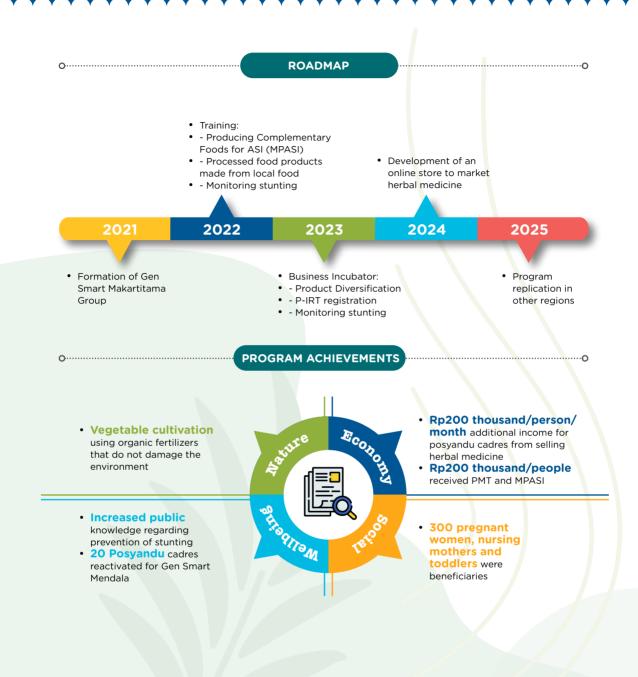
180 families in the Mendala Village community still live below the poverty line due to low levels of education, making it difficult for them to earn a decent income. In addition, there were 6 toddlers who eventually experienced stunting, as their families were unable to meet their nutritional needs.



PROGRAM OBJECTIVES

- Reduce stunting rates.
- Provide knowledge from an early age to adolescents regarding the health of the reproductive organs.
- Increase public knowledge about the importance of meeting the nutritional needs of children.

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Target 2023	 2% reduction in stunting rate from 6% to 4% 300 PMT recipients, including toddlers, pregnant women and breastfeeding mothers Produce derivative products in the form of traditional herbal medicine from the cultivation of organic plants
Strategi	• Establish Gen Smart Mendala group



Improving Education

[ISO.6.8.3][ISO.6.8.4][ISO.6.8.5][ISO.6.8.9][SDGs.1.4.1*][SDGs.4.1.2*] [SDGs.4.1.2.(a)][SGDs.4.3.1*][SDGs.4.4.1][413-1][413-2]

Education is an asset for the Nation and through good education, people can improve their quality of life

Anak Dalam Tribe Education

PHE Jambi Merang supports education for people in the underdeveloped, frontier and outermost (3T) areas, and minority indigenous peoples, especially the Indigenous People of the Anak Dalam Tribe (ADT). The program focuses on improving education and health, as well as increasing community capacity without abandoning the culture, history and local wisdom of the community.

The ADT community education program is carried out by increasing literacy and numeracy skills as well as implementing the package A pursuit program, a program that provides opportunities to gain a graduation diploma at the elementary level. In this program, PHE Jambi Merang works closely with the Jambi Community Learning Center (PKBM) at the Department of Education and Culture. Through a Learning Activity Workshop (SKB), it provides advanced learning opportunities for ADT children. In 2022, 19 children graduated and received their diplomas to continue their education to a higher level.



The ADT children's' success in continuing their education results from PHE Jambi Merang's efforts to legalize the ADT community through making Family Cards (KK) and Identity Cards (KTP) to make it easier for them to pursue formal education.



RISK IDENTIFICATION

The ADT community is a minority indigenous group in Jambi that lives in remote areas, and has not received adequate formal education. The community also does not have legal documents such as family cards and ID cards, making difficult to gain access to formal education.

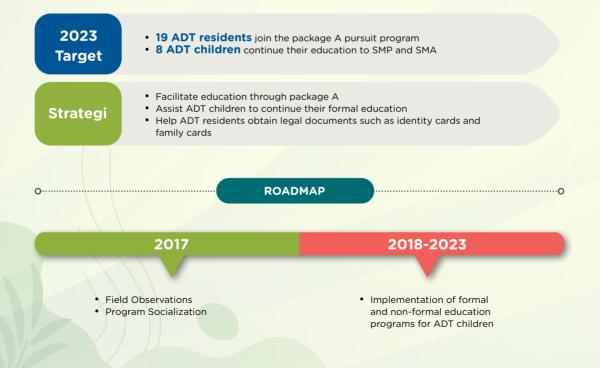
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PROGRAM OBJECTIVES

- Improve the quality of ADT community human resources.
- Realize the ideals of the nation, namely to educate the nation.

TARGET AND STRATEGY





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 7 children already understand letters and numbers

- 8 children can read, write and count
- 4 children passed the package A debriefing
 4 children
- 4 children graduated from junior high school

4 children (currently) continuing their education at senior high school level

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Pertamina PKK Stalls, Pushcarts and Literacy Library (LAPANG PELITA)

In this program, PHE Kampar collaborates with the Bukit Lembah Subur Village Government, the Village TP-PKK (Village Family Empowerment and Welfare Team), Village Youth Organizations, MSME activists, Pushcart groups, and educational institutions from kindergarten to junior high levels, village literacy groups and also Gramedia Digital. The activities focuses on Bukit Lembah Subur Village, Kerumutan District, Pelalawan Regency, Riau Province to empower PKK mothers, Socio-Economic Vulnerable Women (PRSE) and village youth, training in marketing, packaging, e-commerce (capacity building), infrastructure development in the form of book drop boxes, smart houses, MSME boxes and Pushcart boxes (infrastructure) and charitable assistance.





RISK IDENTIFICATION

Based on the International Student Assessment (PISA) Program in 2019, Indonesia was one of 10 countries with a low literacy rate, and was **ranked 62 out of 70 countries**. PHE Kampar in Riau Province recognized that education in the surrounding area was not optimal, especially in Bukit Lembah Subur Village. The majority of people in Bukit Lembah Subur Village were only graduates of elementary schools (SD) and lived in poor economic conditions.



PROGRAM OBJECTIVES

- Increase public interest in reading.
- Optimize the potential of local human resources and natural resources.
- Increase community knowledge and skills.
- Improve the economic conditions of the community.
- Open up new job opportunities.

TARGET AND STRATEGY

2023 Target

5% increase in community education literacy
Achieve self-sufficiency in the MSME group

Strategy

- Facilitate teaching and learning activities
- Perform capacity building for local MSMEs



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>250 elementary-junior high school children

followed storytelling activities together with a number of other participants

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Pelalawan Regency was represented in the Riau Province village competition in 2023



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National High School Equivalency Examination

PHE ONWJ working with the Family Community Learning Center (PKBM) Foundation and the Education Office assisted in the Pursue Packages B and C program in an effort to alleviate the problem of dropping out of school. 58-60 people participated in the program that was carried out in 4 villages namely Curuq Village, Pranti Village, Karanganyar Village and Eretan Kulon Village. Through this program, program participants received their diploma and pursued a higher level of education.



RISK IDENTIFICATION

In Eretan Kulon Village, Kandanghaur District, Indramayu Regency, a high number of residents dropped out of school due to a lack of awareness of education, as well as economic problems. After graduating from elementary/junior high school, most of the children started work to help their parents as fishermen, with many becoming underage workers.

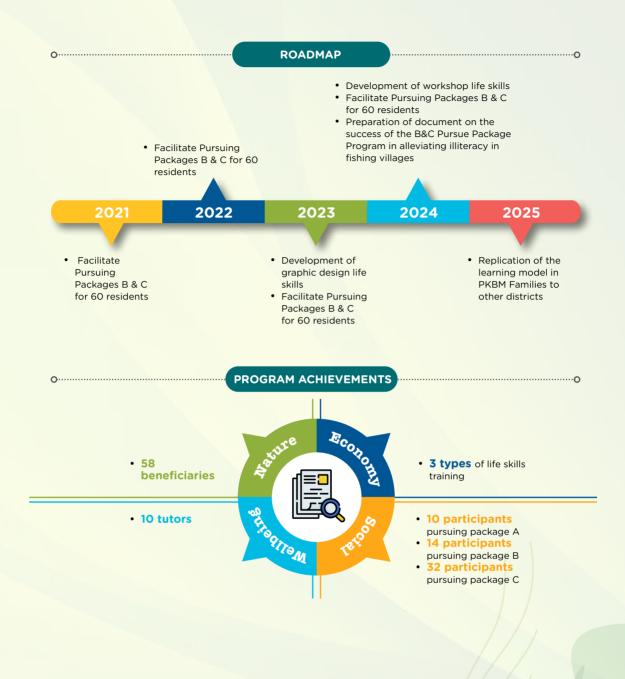




PROGRAM OBJECTIVES

- Help the community gain an education and improve their skills.
- Reduce dropout rates.
- Help people gain certificates to continue their education or find jobs.





Cirebon Tradtional Dance "Tari Topeng"

PIEP Pertamina Budaya instigated a Cirebon free dance school program to foster public interest and awareness in preserving culture. This program started in 2018, and was motivated by the plans to close the Vocational High School (SMK) Pakung Wati due to lack of interest in the dance program. PIEP provided assistance and institutional strengthening, and helped revitalize the Cirebon Kesepuhan Palace. In addition, dance school managers were given assistance related to school program management, mapping diversification to help introduce dance culture to the wider community.





RISK IDENTIFICATION

The absence of dance arts

preservation will lead to local characteristics and culture disappearing in the long term. This risk will have a negative impact on the nation's cultural, historical and asset diversity.

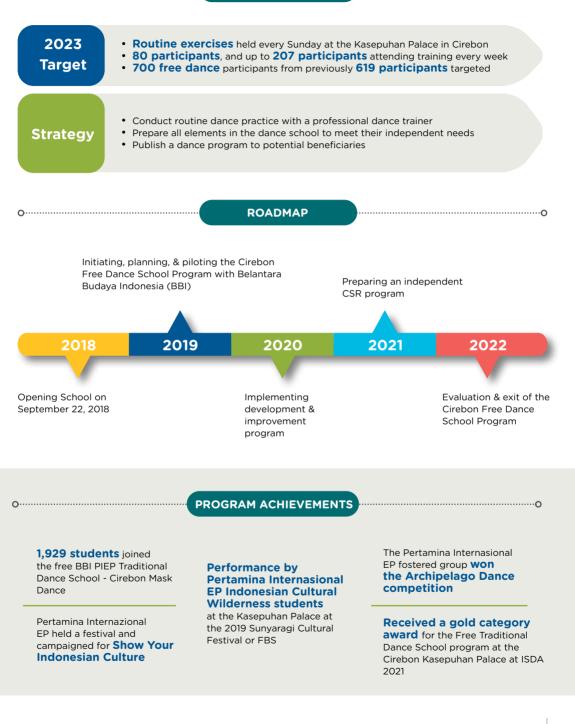


PROGRAM OBJECTIVES

- Formulate and develop the character of Indonesian children and youth.
- Improve the ability of expression, imagination and collaboration through education, arts and culture.
- Preserve local wisdom.



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Forklift Operator Training for Indramayu local youth

This program is a community empowerment program to improve the skills of potential workers in the PDSI working area in Mundu-Indramayu. The program activities include training and certifying local youth so that they could apply for job vacancies in the Company. 17 healthy young SMK/SMU graduates with SIM B driving licenses took part in this program, and received basic and technical training on driving a forklift together with the safety aspects.





Health and Safety Risk

• The risk of work injury and accidents that can occur if adequate safety measures are not taken.

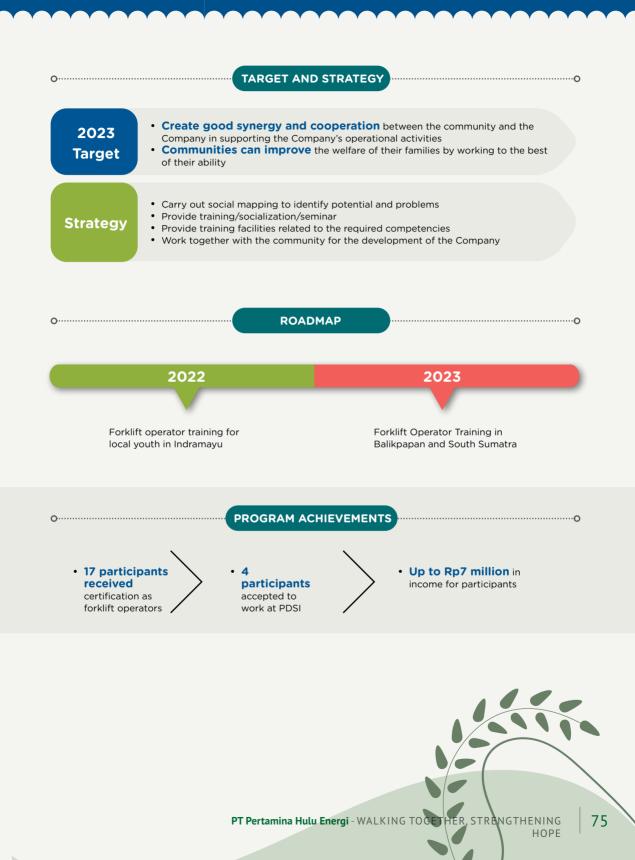
Operational Sustainability Risk

 The risk of equipment damage or failure that can occur due to wear and tear, accidents, or system failure. sistem



PROGRAM OBJECTIVES

- Reduce the impact of social unrest arising from the drilling work carried out in PDSI's operational areas in the Mundu area, West Java and its surroundings.
- Provide adequate skills and education for local youth to work as forklift operators, both at PDSI and other companies.
- Increase community participation in achieving the Company's goals and vision and mission in the nearby work areas.



Developing the Economy

[ISO.6.8.3][ISO.6.8.7][ISO.6.8.9][ISO.2.4.1][SDGs.8.3.1*][SDGs.14.1.1.(a)][SDGs.2.4.1(a)][SDGs.14.4.1*][SDGs.14.b.1.(b)] [SDGs.13.2.2.(a)] [SDGs.71.2] [413-1][413-2]

Synergizing to increase economic growth for a more empowered and independent society.

Love the Earth Village Fire Response

PHE Jambi Merang instigated the Love the Earth Village Fire Response program in the Banyuasin region, South Sumatra with activities including tourism, business development, and handling forest fires. This program involves members of the Mendis Village PKK, Mendis Jaya Village Fire Awareness Group (KMPA), and the Mendis Village Fire Response Group (KETAN ADEM).

Innovative pond tourism activities in the Musi Banyuasin village has made it the only village to use ponds productively. Tourism has created new jobs for people managing the ponds and in businesses with the emergence of new MSMEs.

Several derivative programs from the Love the Earth Fire Response Village program have been replicated in other places, including the Love the Earth Plastic Free School in SDN 2 Sukajaya (Adiwiyata School), a replica of the Love the Earth School in SDN Mendis, and Repair (Water Care Team), a replica of KETAN ADEM.







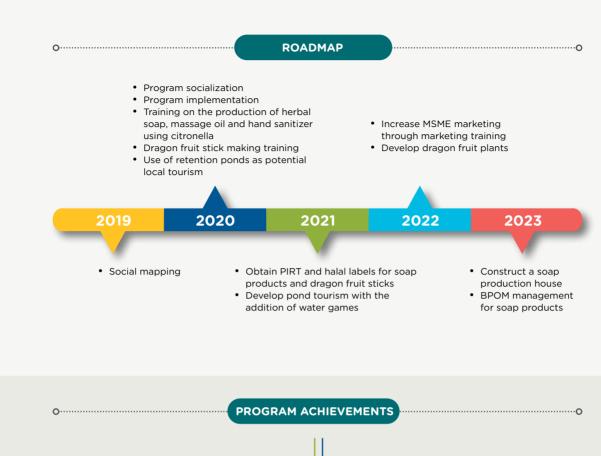
Communities around the company's operational areas are in the lower than average middle economic level. This is a crucial issue that must be addressed to **improve the community's condition**.



PROGRAM OBJECTIVES

- Increase the economic potential of the community through MSME products and Love the Earth Ponds tourism.
- Provide jobs for local residents.
- Increase people's income through tourism and MSME development.





- 8,000 Ha of land protected from fire
 0.18 tons of CO_eq/
- 0.18 tons of CO₂eq/ year absorption of carbon emissions
- 16 people received product processing capacity building
- 7 local workers
- 3.77 Community satisfaction index on a scale of 4 (Good)



- **Rp67.9 million** in income from pond tourism
- **Rp4.8 million** income from processed toga products

 3 community groups established

- 20 people are members of BUMDes
- **30 people** received emergency response training

Energy Outlet

Energy Outlet is a community empowerment program for Pertamina EP Jambi Field that follows the concept of Urban Farming-based Edutourism. The Energy Outlet is located in Kenali Asam Atas Sub-District, Kota Baru Jambi District, Jambi City. Energy Outlet has 2 sub-activities, namely Hydroponic Farming managed by the Barokah Hydroponic Group and Quality Pastry Culinary. This program was initiated in 2019 and activities started in 2020. Based on a social mapping, the results show that the people of the Kenali Asam Atas Sub-District have potential in terms of agriculture, plantations, fisheries and culinary. Limited land due to land conversion and the weak economic condition in the community is a separate problem for the residents of Kenali Asam Atas.



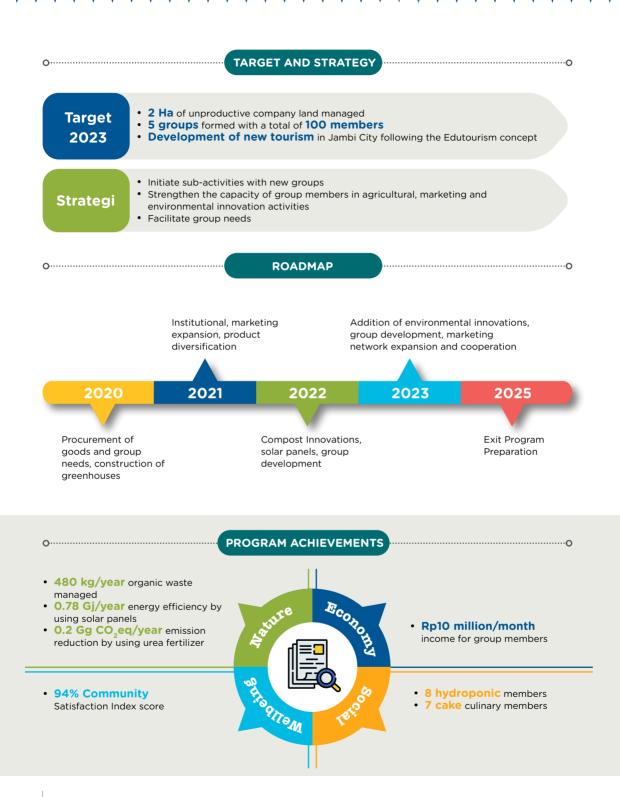
RISK IDENTIFICATION

In the Kota Baru District, there are 6 farmer groups with the potential to develop, but they have become inactive due to land being converted into settlements. In addition, there is the problem of low public awareness of household waste management. On the other hand, the community has the potential to develop MSMEs but they do not have the platform for growth.



PROGRAM OBJECTIVES

- Develop the potential of agriculture, fisheries and plantations.
- Develop local culinary processing.
- Mobilize groups of people, starting with children, youth organizations, RT representatives and housing groups.
- Increase the community resource potential through skills training.
- Create an Integrated Agricultural Education Center using the Urban Farming Concept.

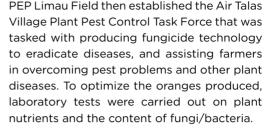


Dewata Orchid

PEP Limau Field supports farmers, especially citrus farmers in Air Talas Village, Rambang Niru District, Muara Enim Regency, South Sumatra in increasing the production of oranges and their derivative products. The Dewata Orchid Program helps farmers to overcome disease problems that threaten plants so they can reap better crop yields.

RISK IDENTIFICATION

Air Talas Village is known as an orange producing village with production reaching 300 tons/year. However, currently orange farmers are experiencing the problem of decreased production due to a plant disease called Citrus Vein Phloem Degeneration (CPVD). The limited knowledge of farmers in controlling micro and macronutrients, as well as the habits of farmers in using chemical fertilizers has worsened the quality of citrus plants and decreased production. In addition, women farmer groups are facing problems in developing their processed products due to increasingly tight market competition.

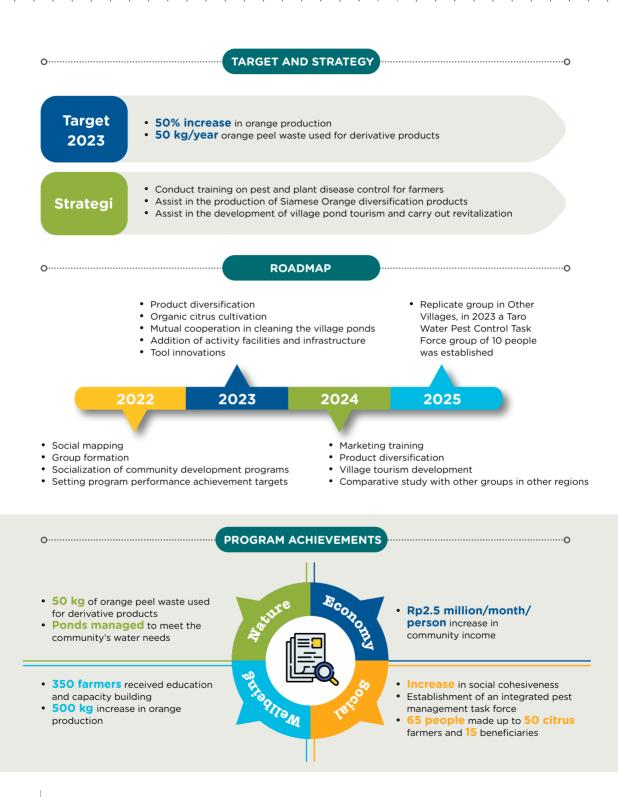




PROGRAM OBJECTIVES

- Assist citrus farmers in the village from the threat of plant diseases.
- Increase the production of farmers and the community in Air Talas Village from a social, economic, environmental and cultural perspective.





Creative Economy Development for Disabled Communities "Rumah Kreatif Tamiang"

PEP Rantau Field developed the Tamiang Creative House for disabled groups to enable them to become more productive and able to earn income. The Tamiang Creative House activities included a Disabled Lubricants Workshop, Inclusive Coffee, and a Disabled Waste House. The Disabled Lubricants Workshop involved 6 people with disabilities following mechanical activities for vocational students through Paper Product Education. In 2022, there were 25 students from SLB and SMK street vendors at the Disabled Workshop receiving Paper Product education. This activity was in collaboration with the Office of Social Affairs, the Office of Manpower and Transmigration, and the Boemi NGO.



100% use of used cooking oil



100% workers with disabilities4 people including women with disabilities

In the Inclusive Coffee business sub-unit, there were 8 people with disabilities managing a cafe using basic sign language. This activity not only provided job opportunities for people with disabilities but also introduced the concept of inclusion to customers to make them more disabled-friendly. Activities carried out at Inclusive Coffee also had a positive impact on the environment through the use of a high-pressure compressor system stove for roasting coffee and reducing emissions by 7,884 kg CO₂eq/month.

PEP Rantau Field empowered the processing of lubricant waste and used cooking oil waste through the MSME Ajang Ambe Gallery in and the Tanjung Karang Village RT. Used cooking oil waste is processed into candles and soap. Based on the results of a SROI study, this program provided benefits to the community amounting to Rp3.53 for every Rp1 the Company invested.



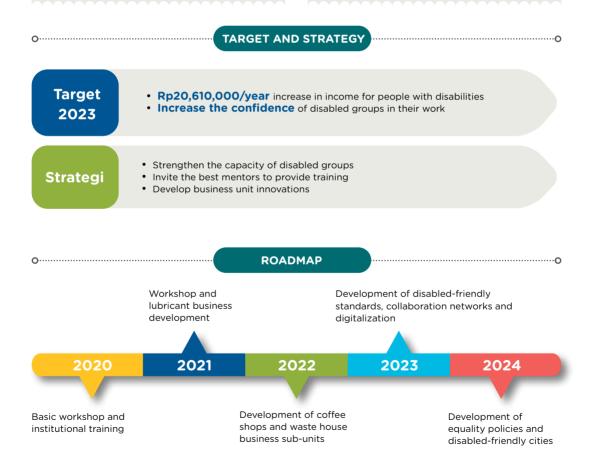


Aceh Province is the province with the second highest number of people with disabilities, totaling **2,314 people. 26% or 616 of the people** with disabilities are poor and need assistance to improve their welfare.



PROGRAM OBJECTIVES

- Increase equality for people with disabilities.
- Create independent economic activities for disabled groups.
- Become a reference for the creation of a disabled-friendly city.



PROGRAM ACHIEVEMENTS

- 6,336 liters/year of lubricant waste treated
- 228 liters/year of used cooking oil waste processed
- Empowerment of 18 people with disabilities (9 deaf, 8 disabled and 1 blind)
- A STURE BCONOMU A STURE BCONOM
 - Rp370.9 million per year increase in average group income

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- Established partnerships with the Government, NGOs, and Special Education Institutions (SLB)
- 113 indirect beneficiaries

MSME Development Empowerment - Pasir Putih Hamlet

PHE ONWJ carries out MSME empowerment activities in Pasir Putih Hamlet located in Karawang, West Java near the coast, which has the potential for a culinary business based on seafood. Empowerment is carried out by following a good manufacturing practice (GMP) approach.

The business developed in Pasir Putih Hamlet is focused on 3 products, namely crab crackers and dim fish balls, dim fish meatballs, and mangrove dodol. All ingredients used in the food production come from marine products and mangrove plants in Pasir Putih Hamlet. When carrying out this activity, PHE ONWJ collaborates with the Padjajaran University Orange Team to provide business development guidance, and the Health Service to provide GMP socialization and licensing arrangements.

The fostered partner groups are also assisted when registering Business Identification Numbers (NIB) as well as PIRT (Household Industry Food Production Certificates), and halal certification. For marketing, group members are given training on the packaging process to make it more attractive to consumers. The Company also facilitates the creation of MSME Shops to stock the products produced by the groups.



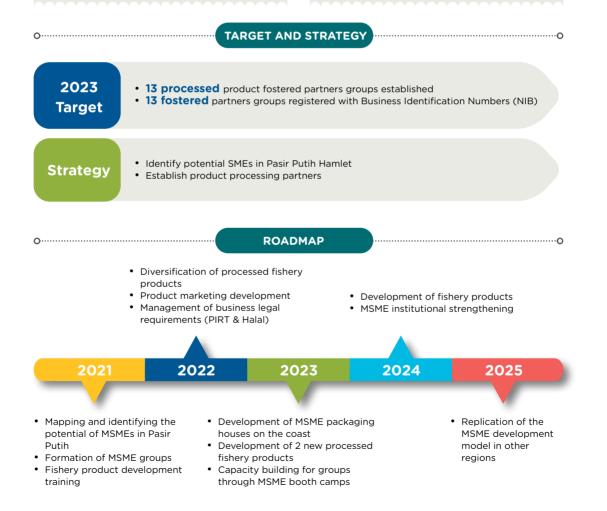


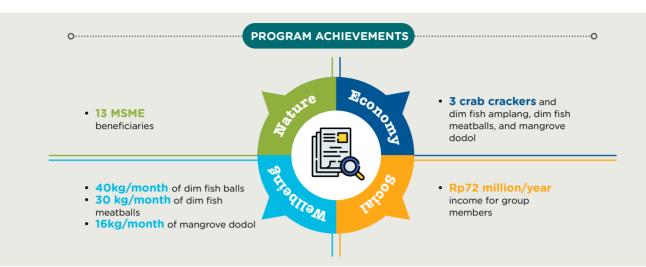
Based on the assessment results, several business development obstacles are faced by the people of Pasir Putih Hamlet, such as product quality and marketing.



PROGRAM OBJECTIVES

- Develop MSME culinary products.
- Create quality products with a higher sales value.
- Increase people's income through the seafood culinary business.







Self-sufficiency and Food-Resistant Farming (Jari Tangan)

The Bongas Wetan and Cidenok Villages, in Majalengka, West Java has the potential to develop paddy fields so PEP Zone 7 Jatibarang Field is assisting the community in developing more productive agriculture. This program focuses on empowering 3 groups including the Bongas Wetan and Mulya Denok Women Farmers Group, and the Pepeling Gambos Young Farmers Group with a total of 7 members.

PEP Zone 7 Jatibarang Field also facilitated the building of greenhouses, nurseries, and the provision of seeds, fertilizers, agricultural shelters, and other facilities. The greenhouses in an area of 112 m² are used by KWT Bongas Wetan for seeding, nursery, planting and plant care.





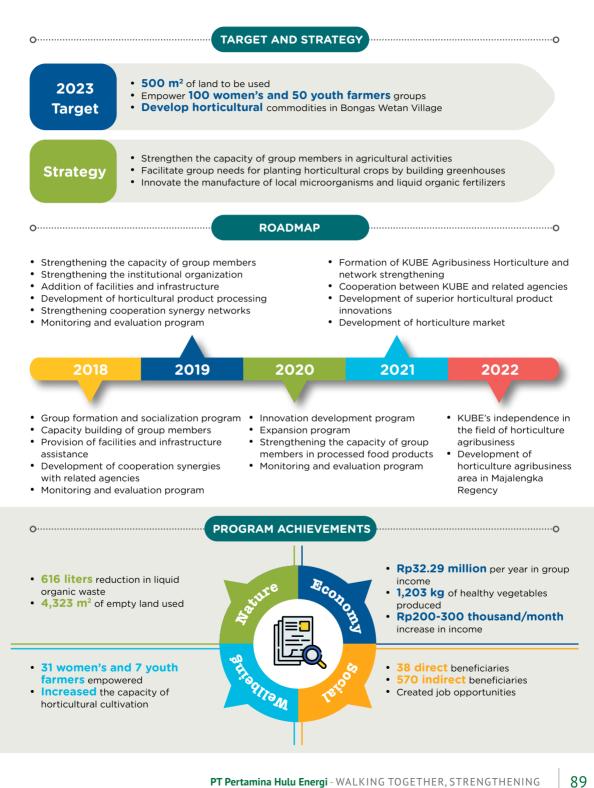
RISK IDENTIFICATION

There is potential in the women's and youth agriculture groups in Bongas Wetan and Cidenok villages that have not been maximized.



PROGRAM OBJECTIVES

- Increase the capacity and knowledge of women's and youth groups in horticultural agriculture
- Increase land productivity
- Increase the income of agriculture groups
- Develop superior village horticultural commodities



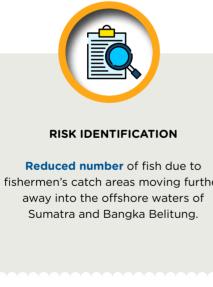
Fish Catches

The Thousand Islands Communities livelihood comes mostly from fishing. To increase fish catches, PHE OSES has instigated a fishing program by providing FADs (Fish Aggregating Devices), GPS (Fish Finding Devices), and traps. It is hoped that the equipment provided will help fishermen catch fish even when they are not at sea due to bad weather. Currently FADs have been given to 300 people in 10 joint venture groups in Harapan Island, Kelapa 2 Island, and Sabira Island.

The use of FADs equipped with GPS will increase fish catches by more than 164 kg. The fishermen will also save up to 15 liters of fuel they would normally use during fishing.



Other fishing tools provided included traps given to 20 fishermen. Traps are environmentally friendly fishing tools used to catch the fish, and by using traps the amount of fish caught can increase from 148 kg to 180 kg.



fishermen's catch areas moving further



• Help to improve the economy of fishermen groups.



Biological Agency Service Post (PPAH)

PEP Zone 7 Jatibarang Field provides assistance to farmer groups in Indramayu in the development of organic farming. The efforts undertaken include organic farming by developing biological agents, organic fertilizers and vegetable pesticides, and procuring refugia seeds.

PEP and the Sri Trusmi Satu Farmers Group have built a Biological Agents Laboratory. The average production of Plant Growth Promoting Rhizobacteria (PGPR) biological agents is 200 liters/month, and 5 kg/month of antagonistic fungi flour biological agents such as Beauveria and Lecanicillium. In addition, 100 kg/month of organic fertilizers bokashi and trico bokashi are produced from chicken, goat and cow dung. Other activities carried out include planting refugia such as sunflowers, Indian comb, chicken's comb, paper flowers, marigolds, and water henna which function to create a habitat for natural enemies.



This effort has created an environmentally friendly farming system producing good quality healthy rice. In addition, group members have also conducted farmer safaris to provide agricultural education to other groups, and have visited 19 sub-districts to share their knowledge.



RISK IDENTIFICATION

In Indramayu Regency, there is potential agriculture that can be developed to make it more optimal. Many people still depend on the use of chemical pesticides, which affects the costs incurred in farming and the results obtained.

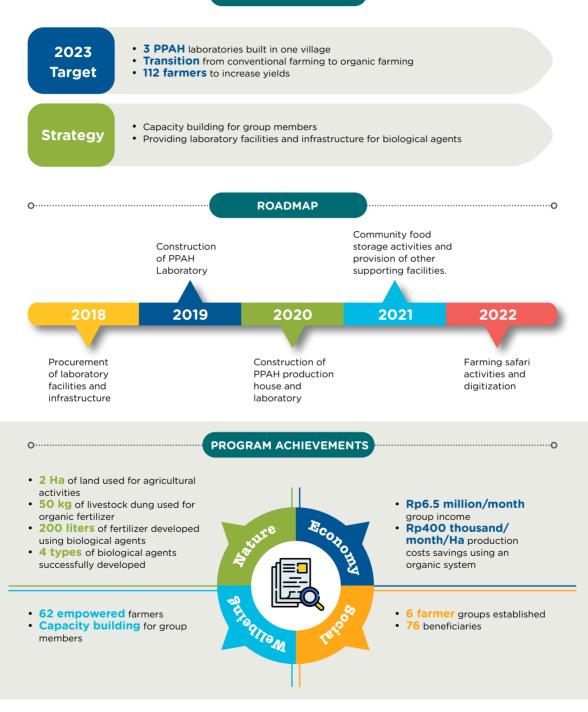


- Contribute to the development and improvement of the farmer groups' economy
- Carry out community empowerment through economic and agricultural activities

TARGET AND STRATEGY

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Zero Waste, More Prosperous, Independent and Sustainable (Tali Temali)

Indramayu has many kinds of gifts that are in great demand by visitors, one being processed onions. PEP Zone 7 Jatibarang Field has developed and empowered women's groups in processing fried onions and tike agar so that the results obtained can be more optimal.

2 groups have been empowered in this program, the Protol Jaya Group that produces processed crispy fried onions (bagore), and the Losarang Women's Empowerment Business Group (Kuppas Bestari) that produces processed Tike. The groups have received approval from the local Village Head.

PEP Zone 7 Jatibarang Field provides infrastructure assistance to support the production and packaging processes. The Company also provides assistance in designing product stickers/labels to make them more desirable. To increase customer confidence, the Company has assisted the groups in registering their products by obtaining Home Industry Production Permits (PIRT).

Every month, 32 women in Losarang Village in the Protol Jaya Group can produce 400 jars of bagore, with this total continuing to increase since the pandemic. The products are marketed through social media and through resellers spread across various regions such as Purwokerto, Semarang and Gresik. As well as the domestic market, the bagore products have now reached the international market in Hong Kong and Taiwan.



The Kuppas Bestari group, products include tike chips, skin crackers, shredded catfish, and sun-dried crackers. The products produced by the group have also received halal certificates, so are safe for consumption. The Kuppas Bestari group is capable of producing 713 kg of wet tike chips.



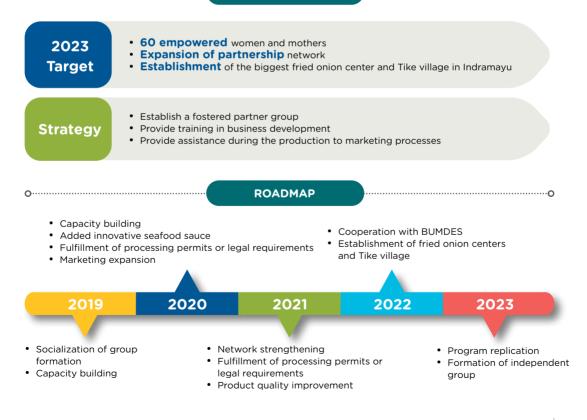
The Losarang Village women's group is close to **PEP Zone 7 operations in Jatibarang Field.** Their background is as farmers and housewives with low education and limited income.



PROGRAM OBJECTIVES

- Increase the knowledge and skills of women and mothers concerning proper food processing and packaging.
- Increase ability and confidence to express opinions in public and ability to apply technology.
- Increase family income by developing traditional culinary.

TARGET AND STRATEGY



PROGRAM ACHIEVEMENTS 0 ····· • 1 Ha of land used for shallot cultivation • Rp600 million/month total Cultivation of environmentally friendly Economy group turnover onions and chilies, using a semi-organic system Rp1.4 million - Rp2 700-1,200 kg/month shallot million/month income for processing and 800-1,000 tike group members processing 35 resellers Serie allow Improved people's 58 women empowered welfare in Losarang District Establishment of cooperation with various partners

Integrated Farming with Organic Systems (Garasi Organik)

This empowerment program is an innovation to improve community farming in the Subang area, West Java using an organic system to produce more valuable livestock. The empowerment involves the Sa'urus Farm livestock group and covers maggot cultivation, training in cooperative management, training in making animal feed formulation, and waste processing.





Sa'urus Farm group is located In Pringkasep Village, Pabuaran District, Subang Regency, West Java, and is involved in chicken and duck farming activities. However, they still use traditional livestock methods, and this has an impact on the yield and quality of livestock. In addition, some also use "pur", which is made up from many ingredients combined into one, as a source of livestock feed, and this has become increasingly more expensive, making it difficult for breeders.



PROGRAM OBJECTIVES

- Improve the quality of group members' livestock products
- Turn the Sa'urus Farm group into a more independent cooperative institution and a forum for organic livestock production
- Increase the income of farmers

TARGET AND STRATEGY

2023 Target

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- 541.46 kg/month reduction in organic waste
- 532 chicks/cycle produced
- Creating agro-education in 2023

Strategy

- Provide education on good livestock management systems
- · Integrate animal husbandry activities into the environmental sector



ROADMAP

ORGANIC LIVESTOCK CERTIFICATION

• Establishing cooperatives

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- Training for members capacity building
- Producing and selling organic livestock products

AGRO EDUCATION

- Organic certification
- Constructing supporting facilities
- Cooperating with vocational schools
- Developing agro education and group management

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- Repairing livestock pens
- Preparing SOP for organic farming

- Improving the quality of feed and organic products
- Trialing the production of organic pellets
- Establishing learning and training facilities for organic farming

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PROGRAM ACHIEVEMENTS

 1.9 tons of household waste reduction

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- As a provider of organic meat that it is more healthy for the community
- 28 group members received increased knowledge in organic farming



- Rp1.2 million/month
 - increase in income for maggot group members
- **Rp450 thousand/month** from animal feed efficiency
- Strengthened the Sa'urus Organic Farm Cooperative institution

Using Processed Pineapple Leaves Fiber (Pesona Subang)

The PEP Zone 7 Subang Field empowers community groups in Cikadu Village to process fine, soft, and strong pineapple leaf fiber, which is in great demand by both domestic and foreign customers. The Pesona Subang program involves the Alfiber group that processes pineapple leaves into leaf fiber as a material for making cloth. In one production, the group can process up to 2 tons of pineapple leaves and produce 60 kg of fiber to market in Singapore.





Risk Identification

Subang is an area known as a pineapple-producing area, but the waste management is not optimal. Pineapple farmers usually burn the leaves causing pollution.

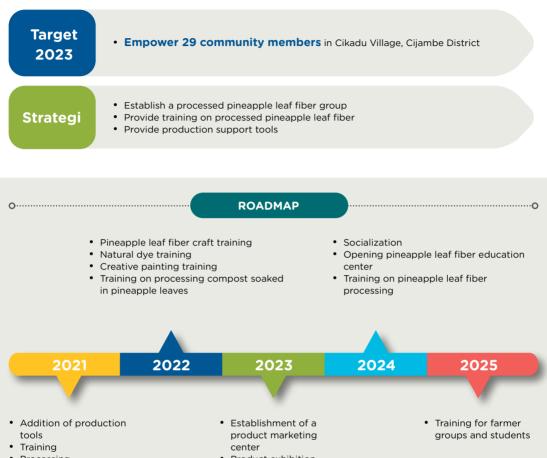


PROGRAM OBJECTIVES

- Reuse the waste pineapple leaves so as not to pollute the environment.
- Empower youth groups and housewives to follow useful activities to generate income.
- Utilize the area's local potential.

TARGET AND STRATEGY

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- Processing
- Group formation
- Establishment of leaf cooperative bank

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- Product exhibition and expansion of cooperation
- Preparation of module books
- Training for trainers



Community Empowerment Using Prabumulih Pineapple Fiber (Raden Mas Prabu)

PEP Prabumulih with pineapple farmers and communities in the Gunung Ibul and Patih Galung areas has developed pineapple farming and derivative products by reusing pineapple leaf waste. The Company provides capacity building to group members as well as training in pineapple leaf fiber production.



This program involves members of the community Tunas Jaya Farmers Group, totaling 12 people, and the Pineapple Fiber Handicraft Group, totaling 10 people. There are other stakeholders involved in implementing the program, including the Patih Galung and Gunung Ibul sub-districts, the Department of Agriculture, KWT Kemuning, KWT Matoa, National Police, and educational institutions that work in synergy with each other for the smooth running of the program. This community empowerment program for processing pineapple leaf fiber has had a positive impact on group members, especially women's groups and also people with disabilities.





A lack of pineapple leaf waste

management has not been optimized, and it is burnt causing air pollution.





PROGRAM OBJECTIVES

- As a means of communication for maintaining social interaction and mutual cooperation between communities
- As a way to absorb labor and improve people's welfare
- To become a pineapple agro-tourism sector and a fiber supplier, and to produce pineapple handicraft products for export to Singapore and Taiwan
- Contributes to eco-fashion to reduce the impact of fast fashion
- To become an agriculture and skills education center
- To become the center of the largest Pineapple Leaf Bank in Prabumulih City

TARGET AND STRATEGY

2023 Target

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3,000 kg/month of pineapple leaf waste processing
 Increase community self-sufficiency through the business carried out

Strategy

- Strengthen the capacity of group members in processing pineapple leaf fiber
- Provide facilities and infrastructure as well as improve supporting infrastructure



Poultry Cultivation Empowerment and Independent Program (Bergegas)

The PEP Zone 7 Tambun Field instigated the Bergegas program in Hurip Jaya Village, Bekasi to assist group members in producing livestock, especially higher quality hybrid ducks. The hybrid duck-farming group has 15 members. PEP Zone 7 Tambun Field provided assistance, including modifying conventional duck pens to become more environmentally friendly, and improving the infrastructure to a higher quality to house 500 hybrid ducks. Group members were also given training and assistance in managing poultry, ranging from maintenance to processing poultry manure into organic fertilizer. It now processes 100 kg of poultry manure every month.



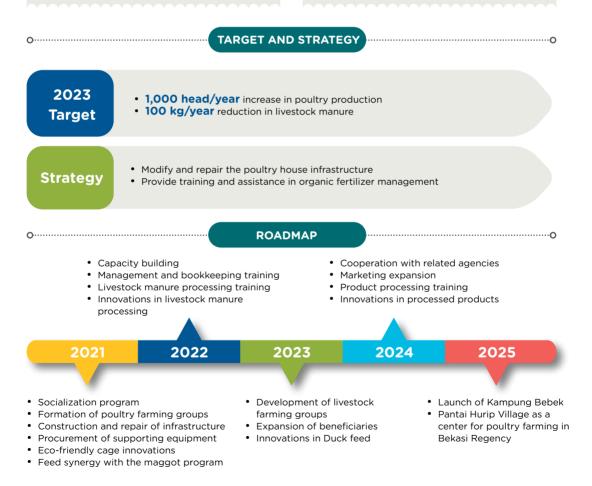


In Pantai Hurip Jaya Village, Babelan District, there is a group that practices hybrid ducks poultry cultivation. However, the poultry-farming infrastructure is not sufficient and not sustainable, so the results are not optimal.



PROGRAM OBJECTIVES

- Increase the environmental carrying capacity in urban areas, and the degree of public health.
- Improve the management and income for group members.





Self-sufficiency Through Cultivation of Mud Crab (Berkilau)

Mangrove Crab (Scylla serrata) or Mud Crab live in swamps and can be found in Hurip Jaya Village, Babelan District, Bekasi. PEP Zone 7 Tambun Field is empowering groups on the potential of Mud Crab to increase cultivation results from an environmental, social and economic perspective.

Empowerment activities include mentoring, procurement, and improvement of facilities and infrastructure, innovating Mud Crab cultivation systems, capacity building, and group management training. The program's beneficiaries include the Exotic Kaloran Youth Forum Group with a total of 15 members. In addition to providing capacity building, the Company also provides management training to the group.





Cultivating mud crabs in the ponds of Hurip Jaya Village faces many obstacles due to a lack of equipment, knowledge and management so yields are not optimal.

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PROGRAM OBJECTIVES

- Strengthen program membership and group management
- Increase the community's mud crab cultivation and economic results
- Optimize the local potential for mud crab cultivation

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TARGET AND STRATEGY

2023 Target	 50 vertical boxes for crab cultivation 50 crab cages built 15 beneficiary engaged
Strategy	 Establish mud crab cultivation groups Provide facilities and infrastructure Institutional capacity building for group members

Innovate mud crab cultivation





Betawi Cultural Arts Village Program (Kang Bekasi)

PEP Zone 7 Tambun Field assists in preserving the culture of the Betawi people, especially in Kedung Jaya Village, Babelan District, Bekasi Regency. The culture preservation efforts focus on Betawi cultural arts for young people. This program is run in collaboration with the Sima Maung Group, a cultural arts group in the Bekasi area.

The Company provides several tools to activities. support the strenathen the management. and involve in aroups management and administration training, to improve the organizational management. To support cultural preservation, a cultural arts performance was held involving members of Sima Maung learning centers from 15 branches and was supported by the Kedung Jaya Village Government.

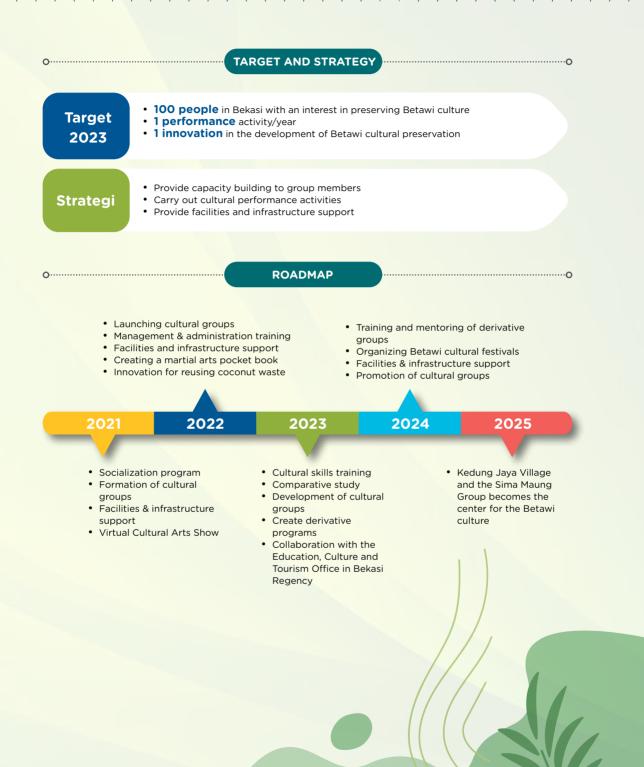


Making traditional machetes using accumulated coconut waste in Kedung Jaya Village uses 25 kg of coconut shell waste and has had a positive impact on groups and the surrounding communities as it can reduce environmental pollution.





- Preserve the Betawi people's culture e through the development of arts and crafts.
- Create a generation of young people who are concerned with preserving regional culture.



- **25 kg** of managed coconut shell waste/year
- 15 people received mentoring
- 15 direct beneficiaries
- 60 indirect beneficiaries
- Service Sconor
- 21 machetes sold/year
- **Rp20.5 million/year** group income from performing arts
 - **Rp7.2 million** group income from traditional handicraft production
 - Rp27.7 million/year total group income
 Rp1.8 million/year average increase in income for group members
 - 1 cultural arts group established
 - 15 members received capacity building
 - 198 members joined
 - 5 cultures preserved (Silat Art, Dance, Ondel-ondel, Palang Pintu, and Traditional Crafts).

Hydroponic Green Village (PEP Bunyu)

The Green Hydroponic Village Program is a community empowerment program that aims to develop agriculture on Bunyu Island. Efforts made include developing a hydroponic farming system for the Women Farmer Group in South Bunyu Village, and the Amanah Women Farmer Group (KWT), and KWT Vegetable Garden in West Bunyu Village.

This program was carried out in collaboration with the West Bunyu Village Youth Organization and involves using fern roots as a planting medium for hydroponics to produce "Good Fern". In 2023 innovative cooling devices were developed as nutrient water storage boxes using hydroponic DFT (Deep Flow Technique). This innovation was developed due to very hot weather conditions on Bunyu Island. Another innovation involved the development of hydroponic plant varieties.

The Hydroponic Green Village Program is also included in the Kemuning Flower Program Scheme (Enhancing Bunyu Sumber Creative Food Menu for People with Stunting). In this scheme, the Hydroponic Green Village Program plays a role in supplying food for the manufacture of nutritious food to be distributed to the beneficiaries of the Ketinting Program (Stunting in Families Protection), including 50 toddlers and 4 KEK mothers with stunting (Chronic Energy Deficiency).





Agricultural problems have emerged in Bunyu due to the old soil structure, so the nutrients in the soil have been reduced resulting in infertile soil thereby reducing the quality of agriculture. In addition, the people of Bunyu still rely on rainwater to meet their daily and agricultural needs, and the location is in a coastal area with limited areas for vegetables and fruit production, so many people buy their vegetables and fruit from outside the island, in Tarakan, Sulawesi and Java.

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PROGRAM OBJECTIVES

- Develop a hydroponic farming system
- Increase community capacity and agricultural production by increasing vegetable varieties
- Reuse fern roots as a hydroponic growing medium
- Create shared value (CSV) with PT Pertamina EP Bunyu Field by using fern root planting media as a mangrove nursery
- Supply Diverse, Nutritious, Balanced and Safe (B2SA) food ingredients for toddlers and mothers with stunting who suffer from chronic energy deficiencies.

TARGET AND STRATEGY

2023 Target	 Become a supplier of healthy vegetables in North Kalimantan Rp1 million/month increase in income for KWT Amanah and KWT Vegetable Garden members Meet the needs for hydroponic shallots Increase crop varieties 	
Strategy	 Increase the amount of planting media and greenhouses Develop hydroponic innovations Expand marketing to Tarakan and Tanjungselor Test plant seeds using hydroponic media 	

ROADMAP

- Innovate planting media from Fern Roots (Weeds)
- Utilize innovative planting media from fern roots
- Conduct hydroponic shallot assessment
- Hydroponic training

Bunyu

• Assist with hydroponic planting

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- Monitor Hydroponic planting
- Product packaging and marketing training

- Development of hydroponic anti-pest liquid innovations
- Replication of the Hydroponic Program in Tanjungselor

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• Expansion of marketing of fern root planting media products



Marketing fern root growing media products
Building melon green house for KWT

PROGRAM ACHIEVEMENTS

Amanah

Hydroponic farming

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- **systems** to be used in small land areas
- Improving the skills of the Women Farmers Group (KWT) Members



Rp300 - 500 thousand/ month additional income for KWT Amanah members from selling hydroponic plants

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- Members of KWT Amanah and KWT Vegetable Gardens are increasingly closer.
- Established good communication between communities

Kapak Prabu Program (PHKT Dobu)

The Kapak Prabu program involves the empowerment of civet coffee village farmer groups in Prangat Baru Village, Marangkayu District, Kutai Kartanegara Regency, East Kalimantan in the cultivation of the Liberika Coffee plant. The cultivated coffee plants are coffee beans naturally fermented civet animals that are used to produce coffee with a distinctive taste and aroma.

This program uses a biogreening innovation to process the waste into organic fertilizer, which is then used by farmer groups for agricultural activities. The group developed a Liberika Coffee nursery using the intercropping method for rubber and coffee, which is the original idea by the farmer group, and this is the first time it has been used in East Kalimantan Province. Through this biogreening innovation, farmers can produce Coconut Milk Compost Fertilizer (Pupuk KONTAN) products, and processed 100.55 tons in 2020.

There are 34 people, who previously worked as rubber farmers, who are now members of the farmer group in this program. The Kapak Prabu program scored 86.67% in a community satisfaction index (IKM) in 2021 with a "very good" rating, as well as an SROI rating of 1.03 in 2021.





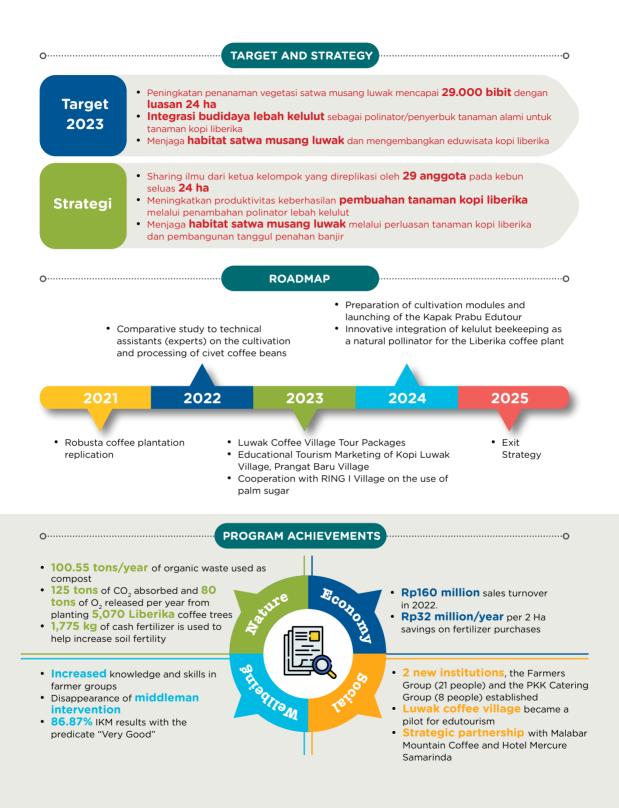
RISK IDENTIFICATION

In the Santan Terminal area, up to 100.55 tons of waste is generated from food scraps that causes environmental pollution, bad smells, and health problems. Most of the people who own rubber plantations also have to face the problem of declining rubber prices, as well as a monopoly on raw rubber prices by middlemen.



TUJUAN PROGRAM

- Mengupayakan pengolahan sampah organik limbah dapur menjadi pupuk organik
- Memberikan nilai tambah ekonomi melalui penjualan biji kopi dan eduwisata
- Menghasilkan nilai tambah lingkungan melalui upaya konservasi satwa musang luwak, penanaman tanaman vegetasi, termasuk kopi serta budidaya lebah kelulut
- Peningkatan kohesivitas sosial melalui gotong-royong penanaman bibit kopi dan transfer knowledge budidaya tanaman liberika
- Menjadi sentra konservasi dan pembelajaran budidaya tanaman kopi di Kabupaten Kutai Kartanegara



Akar Basah Program (Wet Roots)

The Akar Basah Program or Waste Free Work Alliance is a program initiated by PEP Tarakan Field in the Nunukan area, which focuses on activities to preserve marine ecosystems to protect them from garbage pollution. This activity is targeted at > 200 seaweed farmers who produce a lot of plastic waste during the seaweed cultivation planting process. This program has helped reduce plastic waste so that the sea has become cleaner, and the damage to the marine ecosystem has been reduced. For its efforts, the Akar Basah program received a Regional Innovation Award at the Provincial Level.





RISK IDENTIFICATION

- An increase in plastic bottle waste due to the use of used plastic bottles as seaweed buoys that accumulate and pollute the environment.
- The high demand for seaweed buoys, so some plastic bottle buoys are imported from Malaysia and Sulawesi.



- Reduce the amount of plastic waste generated.
- Make seaweed cultivation environmentally friendly and sustainable.
- Improve economic, social and public health conditions for the better.

0	TAR	GET AND STRATEC	SY	O
2023 Target	 25% of seaweed farm 1 policy for the proceed of the pro		and/or the use of	weed buoys
Strategy	 Plastic waste processi Group capacity buildi Institutional strengthe Socialization, promoti Stakeholder engagem Public policy advocadi 	ng ening of Karya Bersama ion and program disser ient	-	
 Eco-frier infrastru 	ersama Waste Bank ndly seaweed buoy product cture vaste sorting training	Study Study Tool co Busine	ct diversification of buoyancy resistance omponent innovation ass administration man am replication	
2021	2022	2023	2024	2025
 Program Initiation 	man • Soci	y production agement training alization and promotion uation of buoy quality	• Evalua n manag	tional strengthening tion of financial gement tion of business model ogram





Sangatta Kelulut Gardens

PEP Sangatta Field supports the community to develop kelulut beekeeping to produce honey. The executor of this program is the Trigona Reborn fostered group, which consists of 25 farmers.

To increase the amount of honey produced, the Company developed an innovative Bee Sap honey harvester, a tool to speed up the harvesting process by 2-3 times. This innovation was followed up by Rombong Etam to promote the kelulut bee products while maintaining local wisdom values.

The group also organized kelulut beekeeping training for the general public through the Kelulut Learning Center (KLC) as a forum for learning about kelulut in East Kutai. The resource person for this training came from the Trigona Reborn farmer group, which is a fostered partner of PT Pertamina EP Sangatta Field in the Sangatta Kelulut Gardens program.

Several innovations were made, including the SARAH Action movement, a movement to plant one tree per person, and the SARAH Action has become an integral part of the Kelulut Learning Center program at Sangatta Kelulut Gardens. Through the SARAH program, each training participant is required to plant one tree inside or outside the Sangatta Kelulut Gardens location, aimed at increasing awareness of environmental preservation in each training participant, and increasing vegetation to supports food sources for kelulut bees to produce high quality honey. At the Sangatta Gardens, the group runs an Eco-Friendly Flowerpot (POTBUNRALINK) activity to make the Kelulut Sangatta Gardens greener and cooler. This activity involves Posyandu cadres involved in cultivating the Family Medicinal Plants (TOGA) garden.





RISK IDENTIFICATION

The potential for kelulut honeybee cultivation has not been maximized in Sangatta, East Kutai Regency, East Kalimantan. In addition, cultivation activities are influenced by natural conditions so that the amount of honey produced decreases during the rainy season.



- Develop local potential in Sangatta to cultivate kelulut honey to improve the economy of the surrounding community.
- Carry out environmental preservation.



120 PT Pertamina Hulu Energi - WALKING TOGETHER, STRENGTHENING HOPE

- 2 Ha of environmental preservation through the creation of kelulut gardens
- 85 kg of waste plastic bottles and used rubber tires used as a medium for planting flowers
- 150 trees/year fruit and flower planting
- The start of a new educational tour that provides benefits to the community
- Encouraged local residents to participate in cultivating kelulut bees
- SPLT S SITTEM EROSS
 - Rp15 million/month increase in honey sales

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- Rp92 million from 65 kelulut bee colonies and garden vegetation
- 9 exhibitions/year for regency/national/ international level products
- 25 beneficiaries
- 1,000 people educated on the benefits of kelulut beekeeping

Sarah's Guest Program (Petani Madu Sari Alam Semberah)

Based on mapping results, in Tanah Datar Village, Muara Badak District, Kutai Kartanegara Regency, there is the potential for community groups to cultivate kelulut bees, locally referred to as Klanceng honey.

PEP Sangatta procured additional infrastructure, including honey colonies, honey harvesting equipment, and the installation of a honey dehumidifier, a device that functions to reduce the water vapor content of honey. Tree planting was also carried out around the area of the kelulut honey cultivation colony to grow flowers as a food source for the kelulut bees. Currently the program is focused on increasing the capacity of members to innovate by producing honey-derived products, such as candy, soap bars, liquid soap and other products.





- Honey products are affected by the weather and the vegetation where the bees feed, affecting the quality of the honey.
- Increasingly diverse competitors are a challenge for marketing honey and its derivative products.

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PROGRAM OBJECTIVES

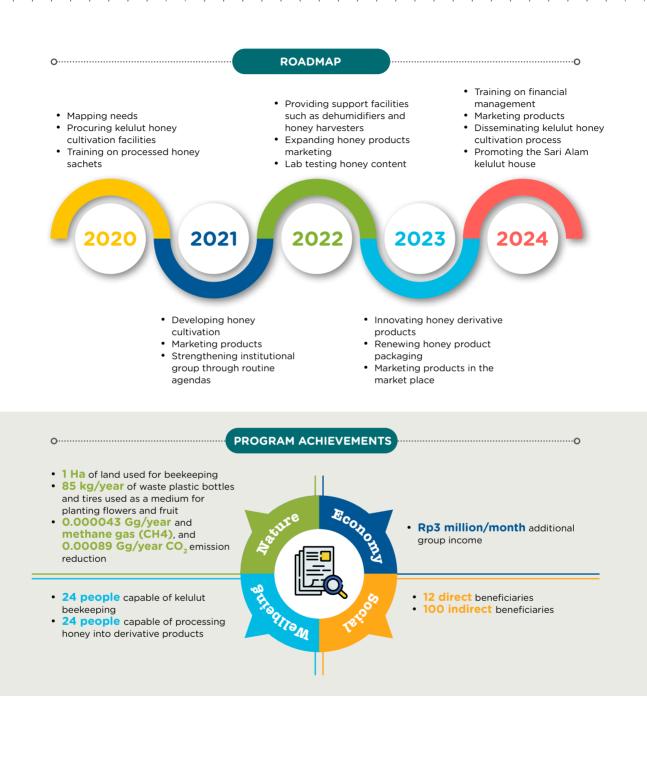
- Increase the productivity of the Madu Sari Alam group through additional infrastructure.
- Provide additional knowledge and skills to Madu Sari Alam group members.
- Increase sales of honey products and develop innovations in the Madu Sari Alam group.

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TARGET AND STRATEGY

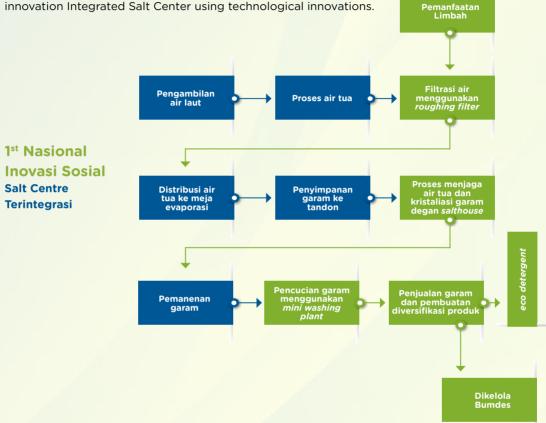
2023 Target Increase group skills for the production of processed honey products Make honey products and honey derivatives one of the leading MSME products in East Kalimantan Organize training activities for processing honey derivative products Organize group participation in MSME product exhibitions Support packaging and marketing for honey and its derivative products





Integrated Salt Center

PHE WMO assists salt farmers in improving the quality and production of salt to provide added value to the community. To increase salt production, PHE WMO has initiated the social innovation Integrated Salt Center using technological innovations.



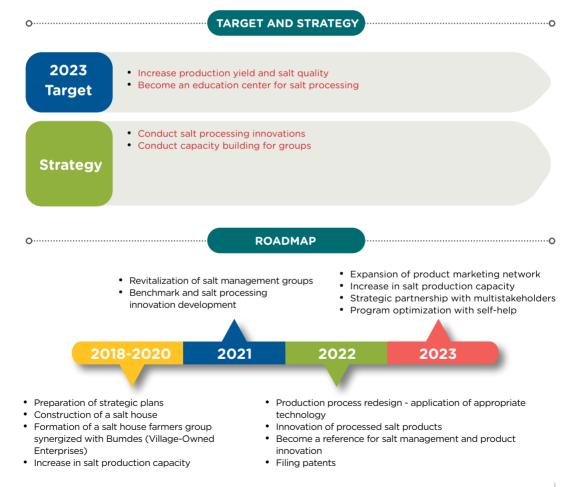
We also make use of portable salt houses that can be removed to make work easier. This innovation was followed by producing mini washing plant salt washing equipment. These tools can reuse 10% of the non-B3 solid waste to separate salt from any impurities, refine salt crystals, wash and dry salt, and break up lumps of salt, so that the resulting salt is finer, cleaner, and has an increased NaCl level. The program has resulted in product diversification, including an environmentally friendly eco detergent. The group also produces products using salt-based ingredients, including vanilla sea salt, bangkok seasoning, chili salt, relaxation salt, and fish jerky.



Extreme weather can cause harvest to fail for salt farmers. As a result, the amount of salt imports is rising and in 2021 it reached 2,831,082. At the same time, the quality and price of salt continues to decline, and the ability to develop technology is still lacking.



- Produce higher quality salt and increase the independence of salt farmers.
- Develop product diversification.



Reducing the burden from waste water pollution

DESCRIPTION	TOTAL IMPROVEMENT (MG/ LITER)	PERCENTAGE IMPROVEMENT	TOTAL ECO DETERGENT SOLD	TOTAL WASTE REDUCTION (KG/L)
Reduction of Biochemical Oxygen Demand (BOD)	53,7	60,1%	217	21,22
Reduction of Chemical Oxygen Demand (COD)	176,4	60,5%	217	71,58
Reduction of Methylene Blue Active Surfactant (MBAS)	446,64	98%	217	181,24

- 30 PKK members and young women involved
- 750 salted fish craftsmen supplied by the BUMDes (Village-Owned Enterprises))
- >250 salt tour participants



- Rp12 million/month
 income
- **Rp14,000/liter** savings by using eco detergent



Food Security

[ISO.6.8.3][ISO.6.8.6][ISO.6.8.7][ISO.6.8.9][SDGs.2.4.1][SDGs.2.4.1(a)][SDGs.4.3.1*][413-1][413-2]

We support food self-sufficiency as a sovereign nation rich in natural products

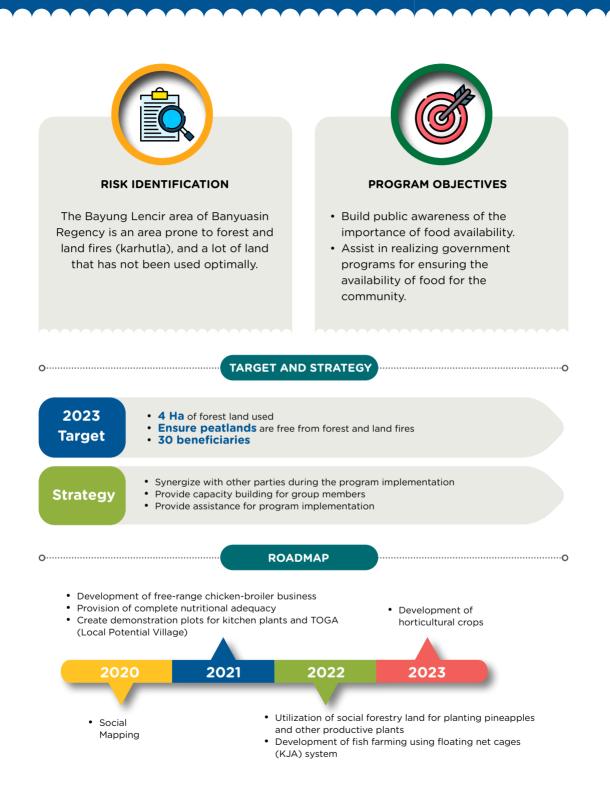
Innovative Social Forestry

PHE Jambi Merang is concerned about the environmental conditions in the Bayung Lencir area, Musi Banyuasin Regency. This area has land prone to forest and land fires (karhutla), so the program is looking to overcome the occurrence of fires, and to take advantage of the lands potential to improve the community's economy.

The Innovative Social Forestry program involves the communities, the Water Care Team (REPAIR), and the Forest Farmers Group Movement (Gapoktanhut) as well as other related parties. The group has built a Fire Resistant Peat Canal Block (Kaka Gahar) in an effort to control water discharge and maintain the moisture/wetness of the peat land. There are also a fire-resistant fuel breaks (Sekar Tani) as a chain breaker for the spread of fires, which uses the intercropping method by combining forestry plants with agricultural crops. A stable canal helps to tackle forest and land fires, provides agroforestry irrigation, floating net cages (KJA), animal husbandry, and water transportation.

The SROI study scored 1:1.71, meaning that for every rupiah invested in the program resulted in a positive change of Rp1.71 or 1.71 times the program costs. In addition, the Community Satisfaction Index study scored 3.2 in the "good" category.





- 4 Ha of land used as agricultural areas
- **3,500 Ha** of peatland maintained
- **30 members** of the Water Care Team (REPAIR) involved in water supply mitigation
- 10,800 m³ of water load used
- **30 people** received emergency response training
- Synergy in strengthening Gapoktanhut BHL, REPAIR, KUPS, KWT, Livestock Group
- Service Sconon Billie Still Teroop
- **Rp30 million/year** income in fish farming group income

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- Rp54 million/year income for productive agricultural groups
- **Rp43.2 million/year** income from chicken and duck farming
- 26 members of the Women's Peat Social Forestry Business Group (KUPS) are involved
- 30 REPAIR members joined

Environmentally Friendly and Sustainable Healthy Agriculture (NIAT MILA)

The Environmentally Friendly and Sustainable Healthy Agriculture Program (NIAT MILA) was initiated by PEP Limau Field to support food security, and build farmers' skills so they can survive and adapt under changing conditions. This program's main focus was to develop sustainable farming systems to increase and maintain high productivity. By using a sustainable farming system, PEP Limau Field pays attention to the supply of organic nutrients, minimizes dependence on chemical fertilizers, improves soil biota, and crop diversification.





In Karya Mulya Village, close to the PEP Limau Field operations, a lot of land has not been used optimally, and the community is still below an acceptable welfare level, and there is a need to improve food security.



- Reconstruct the strategic and technical concept of agricultural skills.
- Strengthen the solidity of partnerships among fellow organic farming communities.
- Encourage strategic partnerships.
- Formulate a market network strategy.





Independent, Smart, and Talented Karanglayung (BERCERITA)

This program initiated by PEP Zone 7 Jatibarang Field aims to increase the catfish farming yields, and the Smart House activities, and to increase community education. The catfish hatchery training activities were carried out in collaboration with the Cipancuh Fish Seed Center (BBI) and the Maritime and Fisheries Service.

The Budikdamber innovation, a system of cultivating fish and vegetables in one bucket, is capable of producing 80 kg of catfish every month that is marketed in Indramayu, Subang, Karawang and Bekasi. The combination of cultivating catfish and vegetable using the Budikdamber innovation has benefited group members as they can take advantage of these vegetables.



A Smart House was also established under the At-Taubah Foundation and the Asy-Syarifiyyah Foundation that organize Early Childhood Education (PAUD) based on a holistic-integrative focus on integrated child development.



The Karanglayung Bercerita program problems started due to the quality of human resources and the low income of the community, with 32.88% of the people (1,439) not graduating from elementary school, and only 39% of the people (1,707) graduating from elementary school.

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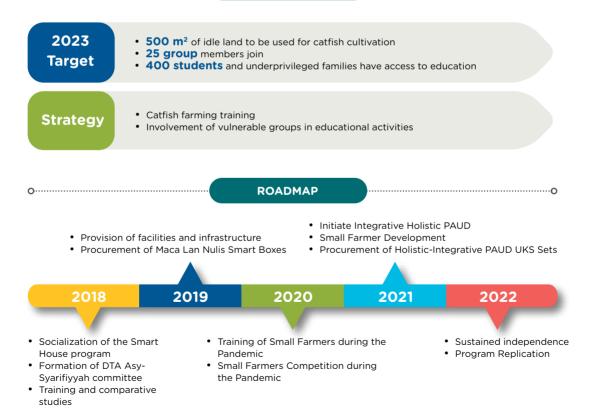


PROGRAM OBJECTIVES

- Improve children's religious education.
- Increase community capacity and knowledge in fish farming.
- Introduce agricultural activities to children to improve their farming skills.

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TARGET AND STRATEGY



- 331 DTA students contributed to eco-friendly activities
- 556 ounces of plastic waste reduced for making 278 ecobricks and 444 PET bottles used for making school fences
- **250 used** buckets used for plant cultivation

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- 1,555 m² of idle land used for catfish hatchery
- 553 students from underprivileged families received access to education
- 20 members of the underprivileged community now have jobs
- SHI-SQUE BCOROLES
- **Rp500 thousand** to Rp2 million income from catfish hatcheries, guppies and catfish rearing
 - Fulfillment of daily vegetable needs such as kale, mustard greens, and chilies
 - 3 target groups established
 - 553 program beneficiaries
 - 9 cooperative partners



Hard Working Spirit and Healthy Farmers in Karawang, Increased Food Security (Jejak Setapak)

PEP Subang Field initiated a community empowerment program in collaboration with the Saripati Tani Association. This program's focus involved activities in environmentally friendly agricultural systems, and developing the potential of youth and women's groups. There are 56 members in this program made up of 37 farmers, 9 youth, and 10 women.

Rice farming uses natural fertilizers as a substitute for chemical fertilizers, and vegetable pesticides as a substitute for chemical pesticides. This farm also applies the mina padi system, a method of combining rice and fish cultivation, and uses owl houses to trap rats. The organic farming system has reduced production costs from Rp10,820,000/Ha to Rp9,516,000/Ha. The Saripati Tani Association farming system that produces organic rice also received an Organic Certificate from INOFICE in 2022.



This agricultural system also integrates the aquaculture from the Jatiluhur Reservoir with a hydroponic system. Every week, groups can catch up to 4 quintals of fish from the ponds before they are sent to 13 fishing spots. The women's group prepares snacks such as rengginang (crackers) made from organic rice, and different-flavored fried cassava to be sold in stalls/shops around the area.

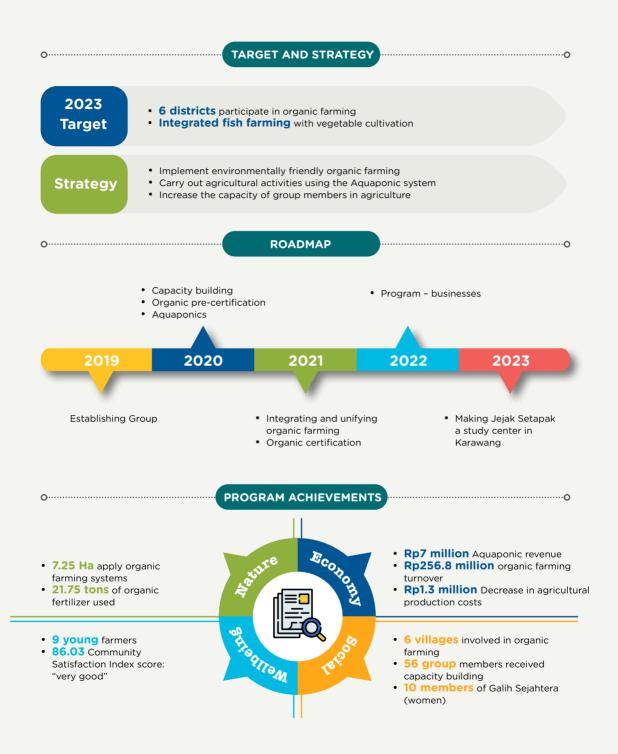


RISK IDENTIFICATION

In the Plawad area, East Karawang District, Karawang Regency, West Java, there are groups of rice farmers with the potential to be developed, but they are still using conventional inefficient farming activities.



- Carry out agricultural intensification using environmentally friendly organic systems.
- Create job opportunities for young people who are victims of layoffs.
- Increase people's income.



Mushroom Stew Program (Semai Jamur dengan Cerdas dan Berwawasan Pangan)

Extractive industry activities have lead to increasing land conversion in East Kalimantan, especially in North Penajam Paser. Factors that cause land conversion have an impact on food security, a negative impact on the environment, and reduce the economic accessibility in farm households to food.

North Penajam Paser Regency faces challenges to food security due to non-optimal agriculture. Therefore, PT Pertamina Hulu Kalimantan Timur Southern Operations Area has instigated initiatives the business of sustainable and non-extractive agricultural/food products, one being mushroom cultivation. Through the Mushroom Stew Program (Semai Jamur dengan Cerdas dan Berwawasan Pangan), the Company fosters mushroom groups made up of women farmers and vulnerable groups.

In the mushroom cultivation program, leftover sawdust is processed into baglog planting media to be used as organic fertilizer. Application of appropriate technology as a means of supporting mushroom cultivation is also a major focus for encouraging increased mushroom production.





The geographical conditions in North Penajam Paser Regency, with an average temperature of **27-33°C**, means that lowland and coastal areas experience a hot climate, which is unsuitable for the growth of oyster mushrooms, and this has led to innovative handling.





PROGRAM OBJECTIVES

- Provide access, control, participation and benefits to vulnerable groups and women's groups, as well as efforts to improve family food security.
- Become a place of learning by applying the concept of Inti plasma in the mushroom cultivation business development.
- Develop environmentally friendly nonextractive businesses for mushroom cultivation.
- Develop mushroom cultivation as an alternative to food agriculture during land conversion to increase production of food crops.

TARGET AND STRATEGY

2023 Target	 Establish inti plasma by expanding the network Develop appropriate technology to support the development of mushroom cultivation in dry areas Make Kelurahan Waru a learning center for oyster mushroom cultivation 	
Strategy	 Knowledge transfer and replication in several other regions/areas in Penajam Paser Utara Innovate and apply of technology by reusing Company plates and tubing to manufacture sterilizers and fan mist sprayers Conduct training on oyster mushroom cultivation through training of trainers Construct mushroom apartments by following an integrated land efficiency strategy 	

ROADMAP

- · Conducted mushroom cultivation training using appropriate technology
- Use technology to increase productivity

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- Making mushroom apartments
- Replication of mushroom cultivation in Girimukti Village, Api - Api Village and Sesulu Village
- Collaboration with PT Patra Drilling Contractor (PDC) for internal absorption of mushrooms
- Mushroom cultivation partnership using inti plasma system
- Appointment and implementation of mushroom cultivation learning center

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- Mushroom cultivation as a learning syllabus at SMK 1 Kelurahan Waru
- Marketing of derivative products



- Mapping mushroom cultivation problems
- Provision of appropriate machines to increase mushroom production
- for mushroom cultivation
- · Creating derivative product innovations
- agricultural alternative to horticulture with a more efficient use of land

PROGRAM ACHIEVEMENTS

Economy

- 6 tons/year of sawdust waste used
- GHG reduction from baglog sterilizer modification

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- Reused baglog waste as organic fertilizer
- 70 group members adopted mushroom cultivation as an alternative to food farming
- Serie Cites • 50 farmer group members use used mushroom baglog fertilizer
- The group replicated in different villages have implemented inti plasma for mushroom cultivation
- Start of a new educational tour

- Rp7.2 million/year increase in income from selling seedlings
- 25 kg/day increase in mushroom production and replication areas

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- Rp36 million/year in production cost savings
- Rp18 million/year increase in group income
- 2 beneficiary groups and 3 mushroom cultivation plasma partner groups
- 70 direct beneficiaries and 50 indirect beneficiaries
- 100 people received mushroom cultivation knowledge

Empowerment of Vulnerable and Women's Groups

[ISO.6.8.3][ISO.6.8.7][ISO.6.8.9] [SDGs.5.2.1*][SDGs.5.2.2*][SDGs.10.3.1.(b)][SDGs. 10.3.1.(c)] [413-1][413-2]

Let's empower all vulnerable people around us, as they are our brothers and sisters, and families, and have the right to work and live a more prosperous life

"This Ability" Reaching Hope, Fighting Limitations

PHE ONWJ provides assistance to vulnerable groups, namely people with disabilities in the Bandung area, especially in Cileunyi Wetan Village, Cileunyi District, Bandung Regency, West Java. The "This Ability" program intends to change the community's stigma about disabilities so that people with disabilities can become more empowered and independent.

Group members received training in making bamboo-based tumblers, in collaboration with the Kumala Foundation. However, these tumblers were not sold in large quantities due to limited production. The group also received training on recycled paper production, and this program has contributed to increasing the independence of people with disabilities, and has shown that the disabled do have the potential to work.





People with disabilities are often stigmatized by the communities and are rejected due to their perceived limitations. They are considered unable to carry out their activities properly so they not accepted for many job opportunities.



- Increase the independence of groups with disabilities.
- Provide jobs for groups with disabilities.





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11 people with disabilities became beneficiaries

1 member of the disability group became a paper recycling trainer

11 people with disabilities received capacity building

Improved mental quality and courage for people with disabilities

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Karawang Free From Violence to Women and Children as they Become More Advanced and Independent (Karawang Berseri)

The Karawang Berseri program is carried out in the Karawang Kulon Village, West Karawang District and focuses on protecting women and children. The Karawang Berseri program intends to help victims of violence to be able to resolve their cases properly, to receive psychological assistance, and to provide victims with a sense of security.



The Karawang Berseri Task Force comprises 19 people made up of representatives from the RW Heads, Posyandu Cadres, Babinsa, and community representatives. Every Monday-Friday, the Task Force will stand guard at the Complaint and Family Resilience Service Center in the sub-district office and be prepared if there are complaints from residents. The cases handled by the Task Force include cases of domestic violence (KDRT), bullying, child abuse, and online gender-based violence. In 2020 there were 7 cases handled, in 2021 there were 11 cases, and in 2022 there was one case.

To expand the network for handling cases, the group works closely with the Rifka Annisa Women Crisis Center. The program development is also supported by the strengthening of networks built with government agencies (P2TP2A, RSUD, UPPA POLRES, State Prosecutor's Office) and private parties such as Pasundan Farm Hydroponic.

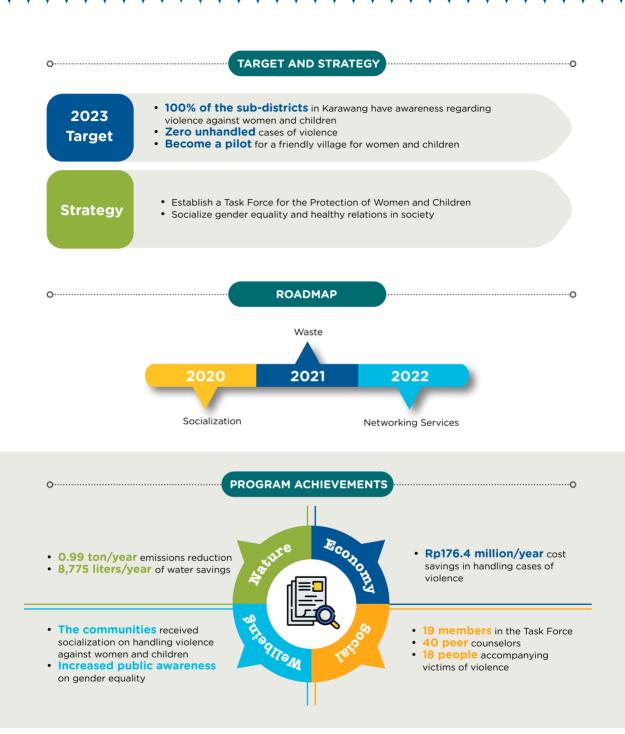


RISK IDENTIFICATION

Cases of violence against women and children are common, and are often committed by those closest to the women and children. In Kelurahan Karawang Kulon, several cases of violence happened but many of the cases ended due to the limited knowledge on handling the cases by the victims. There was also a perception that dealing with any cases of violence incurred large costs.



- Create services for women and children who are victims of violence.
- Raise awareness of gender equality and healthy relations in society.
- Increase the capacity of women to become more empowered and independent.



Governance Together, Building Governance



About PT Pertamina Hulu Energi

PHE Upstream Subholding business activities include oil and gas exploration and production activities, and cover all of Pertamina's work areas, inside and outside the country. In 2021, PHE was designated as an Upstream Subholding based on Board of Directors Decree No. Kpts-19/C00000/2020-50 dated June 16, 2020. PHE Upstream Subholding manages the working areas in five regions based on production volume, regional and operational complexity. PHE Upstream Subholding plays a role as a planner, validator and policy maker. At the same time, the regions focus on optimizers and integrators as well as increasing safety, production and oil and gas reserves.



The PHE Upstream Subholding working areas are divided into five regions, covering 40 domestic working areas comprising 27 operator blocks and 13 non-operator blocks, and27 international working areas in 13 countries. In 2021, PHE Upstream Subholding included 68 Subsidiaries and six joint venture companies.

PHE's business activities aim to support national energy security by ensuring sufficient fulfillment of oil and gas, and delivering a positive impact for all stakeholders. We carry out business activities in a sustainable manner by managing environmental, social and governance (ESG) performance, and we also carry out community involvement development (CID) activities by providing benefits to the local communities.



Vision



To become a respected and professional CID-CSR organizer in the upstream oil and gas sector in Indonesia.

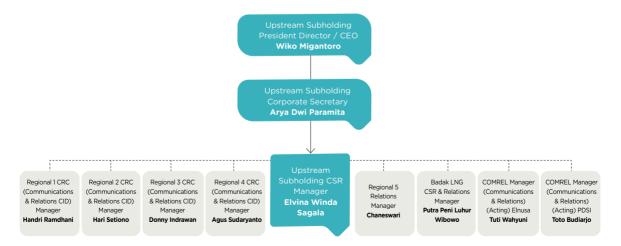
- Develop an accountable CID-CSR governance system in the PHE Group.
- Build a CID-CSR model in line with the characteristics of the upstream oil and gas business activities.
- Improve the PHE Group CID-CSR organizational and management capabilities.
- Increase synergy with stakeholders in CID-CSR management at the central and regional levels.

CID-CSR Structure and Policy

The Corporate Secretary Function, led by a Company official at the Corporate Secretary level, who is responsible to the President Director, supports the PHE SHU CID-CSR. The CID Manager, who reports to the Corporate Secretary, carries out CID-CSR coordination.



When carrying out the CID-CSR duties and responsibilities, the PHE CID Sub-function coordinates with the CSR & SMEPP Function at PT Pertamina (Persero). The PHE CID sub-function also works closely with the Field Relations & CID Units in each AP PHE.



CID-CSR Policies

The PHE SHU's CID-CSR activities are guided by the CID-CSR vision and mission, Company policies, and strategic governance. To guide the strategy formulation and program implementation, PHE SHU has instigated several policies including a CSR Policy, CSR Operational Policy, Integrated Management System (SMT), and CID-CSR Management Guidelines.



PHE SHU also has guidelines for carrying out CID-CSR work plans and management, included in a Strategic Plan (Renstra) that is prepared to cover a period of five years. The Strategic Plan contains the long-term program management formulation, the steps, timelines for program implementation, and the allocation of resources that must be provided to achieve the long-term goals. The Strategic Plan also includes a matrix that outlines the strategies, efforts, programs, goals, objectives, performance indicators and targets for each year.



Stakeholder Engagement [ISO.6.8.9]

Closing

PHE Upstream Subholding's journey has involved instilling a spirit of kindness to build a society that never stops giving. Even though this is the end of the book, the inspirational stories contained within will continue into the future.

PHE Upstream Subholding will continue to work hand in hand with the communities to grow, so that the positive values generated will continue to add value and create self-sufficiency. To achieve these goals, the programs we carry out must have an impact on environmental, social and economic performance, and increase welfare while still paying attention to environmental sustainability.

Together with PHE Upstream Subholding, let us continue to step forward together and build hope to continue to provide benefits to the communities and the environment.

> PT Pertamina Hulu Energi - WALKING TOGETHER, STRENGTHENING HOPE

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Reference Table



Aceh. Aceh Tamiang Regent Regulation Number 9 of 2022 Concerning Behavior Change Communication Strategy in Accelerating Stunting Prevention in Aceh Tamiang District. https://jdih.acehprov.go.id/dih/view/4a49f84c-c2ef-4344-9306-d413ca275df4



Annur Mutia. Cindy. (February 15, 2023). This is the Aceh Region with the Highest Prevalence of Stunting in 2022. Databox: https://databoks.katadata.co.id/datapublish/2023/02/15/ini-wilayah-aceh-dengan-prevalensi-stunting-tertinggi-pada-2022#:-:text=Aceh%20merupakan%20provinsi%20dengan%20 prevalensi,%2C2%25%20pada%20tahun%20lalu.



Ayu Rizaty. Monavia. (July 29, 2021). Majority of National Waste from Household Activities in 2020. Databox: https://databoks.katadata.co.id/ datapublish/2021/07/29/mayoritas-sampah-nasional-dari-aktivitas-rumahtangga-pada 2020#:~:text=Indonesia%20menghasilkan%2067%2C8%20 juta,9%25%20sampah%20berasal%20dari%20kawasan.



Bureau of Communication and Public Service. 2023. The prevalence of stunting in Indonesia fell to 21.6% from 24.4%. Republic of Indonesia Ministry of Health https://www.kemkes.go.id/article/view/23012500002/prevalensi-stunting-di-indonesia-turun-ke-21-6-dari-24-4-.html#:-:text=Kementerian%20Kesehatan%20 mengumumkan%20hasil%20Survei,21%2C6%25%20di%202022.



Budy Kusnandar Viva. (2022, Juli 20). This is the Region with the Largest Prevalence of Stunting Toddlers in Riau in 2021. Databoks https://databoks. katadata.co.id/datapublish/2022/07/20/ini-wilayah-dengan-prevalensi-balitastunting-terbesar-di-riau-pada-2021



Environmental services. 2021. Manggar City TPAS Zone Capacity Data for 2021 Balikpapan https://data.balikpapan.go.id/km/dataset/kapasitas-zona-tpasmanggar-kota-balikpapan-tahun-2021/resource/d233c6d3-6a1f-42ba -88b6e77112b93949



Dyah Utami. Larasati. (March 22, 2021). Indonesia's Literacy Level in the World is Low, Ranking 62 out of 70 Countries. Tribunnews https://www.tribunnews.com/ nasional/2021/03/22/tingkat-literasi-indonesia-di-dunia-rendah-ranking-62-dari-70-negara?page=2



Global Reporting Initiative (GRI). 2021. G4 Sustainability Reporting Guidelines Reporting Principles and Standard Disclosures. Amsterdam



International Organization for Standardization (ISO) 26000 - 2011 Concerning Social Responsibility Ministry of Environment. 2018. Republic of Indonesia Minister of Environment and Forestry Regulation Number P.20/MENLHK/ SETJEN/KUM.1/6/2018 Concerning Protected Plants and Animals. Jakarta https://ksdae.menlhk.go.id/assets/news/peraturan/P.20_Jenis_TSL_.pdf



Ministry of Environment. 2018. Republic of Indonesia Minister of Environment and Forestry Regulation Number P.106/MENLHK/SETJEN/KUM.1/12/2018 of 2018 concerning the Second Amendment to the Ministry of Environment and Forestry Regulation Number P.20/MENLHK/SETJEN/KUM.1/6 /2018 Concerning Protected Plants and Animals. Jakarta https://www.mongabay.co.id/wp-content/ uploads/2019/03/Permen-Jenis-Satwa-dan-Tumbuhan-Dilindungi.pdf



Ministry of National Development Planning (PPN)/National Development Planning Agency (Bappenas). Sustainable Development Goals (SDG). https://sdgs.bappenas.go.id/tentang/Mortimer, J.A & Donnelly, M. (2008). "Eretmochelys imbricata". IUCN Red List of Threatened Species. Version 2008. International Union for Conservation of Nature.



Puspadewi Wulandari. Yulia, et al. 2021. Benefits of Megabox Innovation in Community-Based Waste Management Programs. Bogor: CARE Journal (Journal of Conflict Resolution, CSR, and Empowerment) Republic of Indonesia. Republic of Indonesia Presidential Regulation Number 72 of 2021 concerning Accelerating the Reduction of Stunting.



Sukmawati Fajar. Fina. 2023. Analysis of Agricultural Economic Dynamics regarding Corn, Tobacco, and Soybean Plants for Farmers' Welfare (Case Study of Brabo Village, Tanggungharjo District, Grobogan Regency). Semarang: Universitas Islam Negeri Walisongo

APPENDIX

NATIONAL AWARDS

- 1. 20 TOP CSR Awards TOP BUSINESS 2022:
 - TOP CSR 2022 Awards Star 5 Pertamina EP Sukowati Field through the Sahabat Pertamina- PEP Sukowati Field program
 - TOP CSR Awards 5 Star- Pertamina Hulu Kalimantan Timur
 - TOP CSR Awards 5 Star- PT Badak NGL
 - TOP CSR Awards 4 Star- PEP Subang Field through jejak setapak and garage programs
 - TOP CSR 2022 Awards 4 Star- PEP Rantau Field
 - TOP CSR Award 4 Star- PEP Bunyu Field
 - TOP CSR Award 4 Star- PEP Tarakan Field
 - TOP CSR Awards PEP Donggi Matindok Field for the Pertamina Sehati program
 - TOP CSR Awards Pertamina Hulu Energi (PHE) WMO for the Labuhan Village Ecotourism Management program
 - TOP Leader on CSR Commitment 2022 PEP Subang Field
 - k. TOP Leader on CSR Commitment 2022 -Pertamina Hulu Rokan
 - TOP Leader on CSR Commitment 2022 PEP Tambun Field
 - TOP Leader in CSR Commitment 2022 Pertamina Hulu Kalimantan Timur
 - TOP Leader in CSR Commitment 2022 PEP Bunyu Field
 - TOP Leader in CSR Commitment 2022 PEP Tarakan Field
 - TOP Leader in CSR Commitment 2022 PHE WMO
 - TOP Leader in CSR Commitment 2022 PEP Donggi Matindok Field
 - TOP Leader in CSR Commitment 2022 PEP Sukowati Field
 - TOP Leader in CSR Commitment 2022 PT Badak NGL
 - TOP CSR Award Golden Trophy PT Badak NGL



- The La Tofi School of CSR 2022 16 Indonesia Green Awards (IGA):
 - IGA PHE WMO received an Award in the Plastic Waste Handling Category for the plastic waste management program using the Asphalt protector and portable smily program for COVID-19 prevention during the pandemic
 - IGA PHE WMO received an Award in the Biodiversity Development category for its Integrated Coastal Ecotourism Paper on Community Empowerment for Mangroves, Birds and Coral Reefs in Labuhan Village
 - IGA PEP Donggi Matindok Field received an Award in the Biodiversity Category for its Conservation of Peleng Island Endemic Animals Through the Ecosystem Protection of Kehati Kokolomboi Park
 - IGA PEP Papua Field received an Award in the biodiversity category for its coral reef restoration program to support the sustainability of marine resources in the No-Take-Zone (NTZ) in the Misool area, Raja Ampat
 - IGA PEP Jatibarang Field Karanganyar Green and Environmentally Friendly Program (Kejora) in Karanganyar Village, Kandanghaur District, Indramayu Regency - There is Rupiah Hidden in the Garbage
 - IGA PEP Subang Field Category: Pioneering pollution prevention; Program: Organic Essence to Reduce Pollution in Lumbung Padi City
 - IGA PEP Subang Field Category: Developing Integrated Waste Management. Program: Processing Pineapple Leaf Waste as a Source for Quality Natural Fiber
 - IGA PEP Tambun Field Category: Handling Plastic Waste, Management of Plastic Waste Through Sedekah Sampah
 - IGA PEP Tambun Field Category: Biodiversity Development, Biodiversity Conservation of Endangered Surili Species
 - IGA PEP Tambun Field Category: Developing Integrated Waste Management, Reducing Waste Through Organic Waste Management
 - IGA PHE ONWJ
 - IGA PEP Sangatta Field Environmentally Friendly Product Packaging Renewal - Plastic Waste Handling Category
 - IGA PEP Tarakan Field Conservation of Endemic Tarap Plants in Tarakan City -Biodiversity Development Category

- IGA PEP Bunyu Field Processing Plastic Waste Through the Development of Environmentally Friendly Paving Blocks -Plastic Waste Handling Category
- IGA Pertamina Hulu East Kalimantan

 Sustainable and Independent with Kersik Tourism Village (DERSIK) - Nature Conservation Tourism Development Category
- IGA Pertamina Hulu East Kalimantan -Strengthening the Blackfly Cultivation Group (BULATIH) in an Effort to Realize the Zero Waste Program - Developing Integrated Waste Management Category
- Ministry of Environment & Forestry 2022-11 Climate Village Program (ProKlim) Awards:
 - 2 ProKlim Pratama, Pertamina Hulu Mahakam
 - 1 ProKlim Lestari, PEP Limau Fied
 - 3 ProKlim Utama, PEP Kampar Field &
 - Pertamina Hulu East Kalimantan
 5 Proklim Madya, Pertamina Hulu Mahakam, Pertamina Hulu Kalimantan Timur, PEP
 - Pendopo Field and PEP Prabumulih Field
- 4. Public Relation Indonesia Group 2022- 14 Public Relations Indonesia Award (PRIA):
 - PRIA Gold Winner, Community Based Development - PT Pertamina EP Cepu Field through the Environmentally Friendly and Sustainable Healthy Agriculture Program (PSRLB)
 - PRIA Gold Winner Community Based Development for Advanced Farmers 4.0 – Pertamina Hulu Mahakam
 - PRIA Gold Winner Community Based Development Mahakam Winners - Pertamina Hulu Mahakam
 - PRIA Silver Winner Community Based Development Sharing Renewable Solar -Pertamina Hulu Mahakam
 - PRIA Silver Winner Community Based Development - PEP Sangatta Field
 - PRIA Silver Winner Community Based
 Development PEP Tarakan Field
 - PRIA CSR CSV Program through the Use of the Sawdust Program to Overcome Well Leak Problems - PEP Bunyu Field
 - PRIA Bronze Winner, Community Based Development - PT Pertamina EP Papua Field through the Peri Empowerment Program (community empowerment-based clean water facility improvement program)
 - PRIA Community Based Development PEP Ramba Field, PEP Adera Field, PEP Pendopo Field and PEP Limau Field
 - PRIA Award for Organic Garage Program PEP Subang Field
 - PRIA Community Concern for Waste (OVERFLOW) - PEP Tambun Field

- Special Task Force for Oil and Gas Upstream Business Activities (SKK Migas) 2022 - 8 National Capacity Forum Awards:
 - 2022 National Capacity Pre-Forum (Forkapnas) Southern Sumatra (Sumbagsel) region - MSMEs, Batik Serumpun Berlian Group - Pertamina Hulu Rokan
 - 2022 National Capacity Pre-Forum (Forkapnas) Southern Sumatra (Sumbagsel) region - Best Booth I, Batik Serumpun Berlian Group - Pertamina Hulu Rokan
 - 2022 National Capacity Pre-Forum (Forkapnas) Southern Sumatra (Sumbagsel) region - MSMEs, Uma Inovasi Selangit - PEP Jambi Field
 - 2022 National Capacity Pre-Forum (Forkapnas) Southern Sumatra (Sumbagsel) region - Best Booth II, Uma Inovasi Selangit -PEP Pendopo Field
 - 2022 National Capacity Pre-Forum (Forkapnas) - Best Fostered MSMEs - Cultural and Creative Economy Center - Pertamina Hulu Rokan
 - 2022 National Capacity Pre-Forum (Forkapnas) - Best Fostered MSMEs - Kopi Uma Inovasi Selangit- PEP Pendopo Field
 - 2022 National Capacity Pre-Forum (Forkapnas) - Batik Serumpun Berlian - PEP Jambi Field
 - National Capacity Forum Platinum Sponsor Special Award - Pertamina Hulu Rokan
- 6. Corporate Forum for CSR Development (CFCD) 2022 - 11 Indonesia Sustainable Development Goals Awards (ISDGA)
 - ISDA Platinum PHE Jambi Merang
 - ISDA Platinum PEP Tambun
 - ISDA Platinum Papua Field
 - ISDA Gold PHR
 - ISDA Gold Pangkalan Susu
 - ISDA Gold Kampar
 - ISDA Gold Rantau
 - ISDA Gold PEP Subang
 - ISDA Gold PEP Jatibarang
 - ISDA Gold PEP DMF
 - ISDA Gold PEP Sukowati

REGIONAL AWARDS

- West Java Awards: Gold Winner Best Corporate Public Relations PEP Sukowati Field
- West Java Awards: Bronze Winner Best Corporate Public Relations PEP Cepu Field
- Subang district and implementation of joint disaster management award as a form of CSR through BPBD -PEP Subang Field
- Central Sulawesi Governor Award for the Prevention and Handling of COVID 19 Platinum Category -Prevention and Handling of COVID 19 - PEP Donggi Matindok Field
- Kampar Regency Award Kampar Regency Tourism Support Company Pertamina Hulu Rokan
- Pelalawan Regency Award Best CSR Award PHE Kampar
- 2022 Bengkalis CSR Awards Community Empowerment Pertamina Hulu Rokan
- 2022 Bengkalis CSR Awards Strengthening Community Institutions Pertamina Hulu Rokan
- 2022 Bengkalis CSR Awards Environmental Preservation Pertamina Hulu Rokan
- Siak Regency Stunting Care Company PHE Siak
- Aceh Governor SER Organizer PEP Rantau
- Tax Award Underground Water Pertamina Hulu Rokan



Daftar Indeks ISO 26000

Торіс		Indicator	Page
Community Involvement	6.8.3	Applying CID-CSR based on good governance by involving the communities, increasing internal understanding and capabilities, and developing the framework.	14,19,24, 50,55,65, 76,127,139
Education and Culture	6.8.4	Prioritizing education and maintaining local culture.	65
Employment Creation and Skills Sevelopment	6.8.5	Developing the Human Resources (HR) capacity and improving HR capabilities both internally (employees) and externally (the surrounding communities).	65
Technology Development and Access	6.8.6	Creating innovations and replication based on appropriate technology.	127
Wealth and Income Creation	6.8.7	Strengthening the community's economy, through community economy empowerment, and encouraging self-reliance.	76,127,139,
Health	6.8.8	Protecting the Environment by paying attention to environmental sustainability.	24,50,55
Social Investment	6.8.9	As a social license and strengthening social relations by maintaining harmony with the communities to reduce social conflicts.	14,19,24,50, 55,65,76,127, 139,146

SDG Index Table

Goal		Indicator	Page
Social Development Pillar			
1 No Poverty	1.4.1*	Proportion of population living in households with access to basic services	55,65
2 Zero hunger	2.2.1*	Prevalence of stunting (short and very short) in children less than five years old/toddlers.	55
	2.4.1	Proportion of agricultural areas under productive and sustainable agriculture	24,76,127
	2.4.1(a)	Proporsi luas lahan pertanian yang ditetapkan sebagai Kawasan pertanian pangan berkelanjutan.	76,127



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Goal		Indicator	Page
3 Good Health and Well- being	3.3.3*	Malaria incidence per 1000 people.	55
4 Quality education	4.1.2*	Completion rate (primary / equivalent education, lower secondary / equivalent education, upper secondary / equivalent education).	65
	4.1.2.(a)	Number of children who do not go to school in primary / equivalent, junior high school/equivalent, and senior high school/equivalent.	65
	4.3.1*	Participation rate of youth and adults in formal and non-formal education and training in the previous 12 months, by sex.	65,127
	4.4.1	Proportion of youth and adults with information and communications technology (ICT) skills	65
	4.a.1*	Proportion of schools with access to: (a) electricity (b) internet for teaching purposes, (d) proper drinking water, (e) basic sanitation facilities by sex, (f) hand washing facilities (consisting of water, sanitation, and hygiene for all (WASH).	50
5 Gender equality	5.2.1*	Proportion of women and girls (age 15-64 years) subjected to violence (physical, sexual or psychological) by a partner or former partner in the last 12 months.	139
	5.2.2*	Proportion of women and girls (age 15-64 years) subjected to sexual violence by persons other than their partners in the last 12 months.	139
Economic Development Pi	llar		
7 Affordable and Clean Energy	7.1.2	Proportion of population with primary reliance on clean fuels and technology	14,76
	7.1.2.(a)	Number of gas networks connected to households.	14
8 Decent work and economic growth"	8.3.1*	Proportion of informal employment to total employment, by sector and sex	24,76
	8.9.1.(b)	Number of domestic tourists.	24,50
10 Reduces inequalities	10.3.1.(b)	Number of violation complaints handled by Human Rights (HAM).	139
	10.3.1.(c)	Number of complaints handled for violations of women's human rights (HAM), especially violence against women.	139

Goal		Indicator	Page
Environmental Developme	nt Pillar		
6 Clean water and sanitation	6.2.1*	Proportion of population using safely managed sanitation services and hand-washing facilities with soap and water	24, 55
11 Sustainable cities and communities	11.6.1	Proportion of urban solid waste regularly collected with adequate final processing.	24
	11.6.1.(a)	Percentage of households in urban areas with waste management services.	24
13 Climate Action	13.2.2.(a)	Potential for reducing greenhouse gas (GHG) emissions.	14,24,76
14 Life below water	14.1.1.(a)	Percentage reduction in waste dumped into the sea.	24, 76
	14.2.1*	Application of an ecosystem-based approach to manage marine areas.	19,50
	14.4.1*	Proportion of fish stocks within biologically sustainable levels	76
	14.b.1.(b)	Number of protected fisheries.	76
15 Life on land	15.b.1	(a) Official development assistance on conservation and sustainable use of biodiversity; and (b) revenue generated and finance mobilized from biodiversity- relevant economic instruments	19
	15.b.1.(a)	Official development assistance on conservation and sustainable use of biodiversity	19

GRI Index Table

Торіс		Indicator	Page
GRI 302: Energy 2016	302-4	Reduction in energy consumption	14
GRI 303: Water and	303-1	Interactions with water as a shared resource	50
Effluents 2018	303-2	2 Management of water discharge-related impacts	50
GRI 304: Biodiversity 2016	304-3	Habitats protected or restored	19,50
GRI 305: Emissions 2016	305-5	Reduction in GHG emissions	14
GRI 306: Waste 2020	306-2	Management of significant waste-related impacts	14,24
GRI 413: Local Communities	413-1	Operations with local community engagement, impact assessments, and development programs	55,65,76, 127,139
	413-2	Operations with significant actual and potential negative impacts on local communities	55,65,76, 127,139







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