



IMPACT REPORT 2024

KOPERASI INDONESIA

SP "SETIA KAWAN" NON KOJAK R



Rumah Energi is a non-profit organization that works directly with the community at the grassroots level. Rumah Energi has the mandate to assist communities in poverty alleviation, community-based economic development, climate change adaptation, mitigation actions, and disaster risk reduction. Rumah Energi has implemented programs focusing on Renewable Energy, Food Security, Business Incubation, and Water Conservation. In line with the spirit of gotong royong, we invite the involvement of many parties to create a society that is resilient in energy and food. Rumah Energi invites you to contribute to providing access to clean energy and sustainable food for village communities through the Indonesia Berdaya movement.

RUMAH ENERGI CONTRIBUTION ON SDGS

Rumah Energi contributes to the SDGs that are implemented in program implementation



93.289 people get the benefits



8.468 people have access to sustainable food



- 31.810 people exposed
- 16 cooperatives engaged



682 people have access water & sanitation



- 2.378 people have access to renewable energy
- 617 units of renewable energy installation
- 54 cooperatives engaged



407 people have access



- 151 people involved
- 528.834 tCO₂e
- 63 cooperatives engaged



- 282 people involved
- 169 stakeholders engaged

SUSTAINABLE DEVELOPMENT GOALS



RENEWABLE ENERGY PROGRAM



Rumah Energi has provided access to renewable energy for the people of Indonesia since 2012 by becoming a non-profit civil society organization that focuses on developing and disseminating the use of renewable energy and processing organic waste into energy source. Through the Indonesia Domestic Biogas Program or BIRU Program, Rumah Energi provides access to the use of biogas reactors as an energy source and the use of bio-slurry (biogas dregs) as a natural fertilizer to the community at the site level.

Through the **BIRU program**, the achievements in 2024 are as follows:



221
Biogas
Constructions



Reach New
7 Province



1,608
Beneficiaries



786
Trained Farmers

Total achievements of **BIRU program** until 2024:



29,645
Biodigesters



171,117
Beneficiaries



Reach out
**20 Provinces,
188 Districts,
3.059 Villages**
in Indonesia



29,454
Trained Farmers



1,297
Trained Masons

Contribution to **SDGs** through the LMS Program



- Savings in household costs for LPG/firewood of IDR 240,000/month
- Additional income of around IDR 346,592/month from selling bioslurry



- Reducing GHG emissions by 528,781 tCO₂e through the development of biogas
- Increase productivity, timely harvest, produce drought- tolerant crops



- 136,552 people use biogas as clean energy for cooking
- Reduction in the use of traditional fuels for cooking (7.2kg/day/household) SDGs 12



- The amount of waste recycled into bio-slurry and biogas for cooking is 24 tons of waste/year/biodigester unit.



- Additional free time and reduced domestic workload for women's groups



- Reduce shortness of breath, eye infections and stress

FOOD SECURITY PROGRAM



As an effort to realize national food security, Rumah Energi supports the community in increasing the productivity of agricultural commodities, one of which is through Bio-Slurry, biogas waste that can be used as a natural fertilizer to maintain soil structure and increase plant fertility. Rumah Energi also encourages national food security through empowering local farmers. Implementation of Food Security is applied to the Local Milk Sourcing (LMS) Program. This program aims to strengthen the resilience of local dairy farmers through Good Farming Practices, improve environmental management through biogas installations, and carry out small-scale pilot initiatives to improve farmers' work efficiency in milk production and quality. Through the LMS Program (in collaboration with Sarihusada and Danone Ecosystem), the achievements in 2024 are as follows:

Highlights Impact:



Good Dairy Farming Practices (GDFF)



Good Milk Handling



Biogas Installation



Gamma Umami Grass Innovation



Training & Accompaniment to Cooperatives

Highlights Impact:



563 empowered farmers



Increase in dairy farmers' income by 59%



Increase in profits by 28% for three cooperatives in Central Java & DIY



Increase local milk production capacity to 20.2 kg/day by 2024 and increase its quality according to national standards.



The VER to be issued (tCO2e) by the end of December 2024 is 94 Tons

Contribution to **SDGs** through the LMS Program



- Provide access for beneficiaries to economic savings from the use of renewable energy, and improve the economic quality of 563 farmer family



- Providing knowledge about clean and affordable energy to beneficiaries, including good practices for biogas renewable energy to 122 farmers



- Contribute to national food security by increasing milk production and quality



- Contribute to responsible consumption and production through good management off fresh milk



- Involving 156 female farmers



- Collaborate with stakeholders



- Providing access to improving the family economy through the fresh milk business

Testimonial

Jenarwan - Beneficiary of Animal Welfare Equipment and Biogas Support.

Previously worked as a sand miner in Boyolali (Central Java). Dairy farming allowed him to switch livelihoods, stopping dangerous and environmentally damaging mining activities. “This project helped me build a biodigester and provide unlimited feed for my cows. Next year I am confident that I can apply for a financing scheme from the cooperative to raise my cows.”



GREEN COOPERATIVE PROGRAM



Cooperatives have a strategic position in the climate change mitigation and adaptation action landscape, namely as financial channeling institutions to encourage the transition from fossil energy to renewable energy. Green Cooperative Program takes the initiative to build stakeholder awareness for sustainable financing related to climate change and build knowledge of the potential of cooperatives in Indonesia in financing climate change at the grassroots level.

Green Cooperative Adaptation Readiness (GENCAR)

Encourage and assist 4 Beneficiary Cooperatives to improve the standards of Institutional Governance regulations, and institutional readiness for business and financial schemes that are adaptive to Climate Change, and become a case study of Green Cooperative principles for Ministries and Donor Institutions on a national and international scale. The achievements in 2024 are as follows:

- 4 Main Assisted Cooperatives: 1) KSP Qaryah Thayyibah, Salatiga; KK/KSU Gardu Tani Gedong Songo, Semarang, 3) KSPPS Tekun Sahabat Mandiri, Kabupaten Boyolali, 4) KSPPS Usaha Syariah Bersama, Pati
- 52 Beneficiaries of the following training:
 1. Improving Good Cooperative Governance
 2. Mainstreaming Gender Equality and Social Inclusion (GESI)
 3. Climate-Risk Assessment
 4. Water and Waste Management Technology Best Practices
 5. Climate Financing
 6. Leveraging Climate Funds
- 24 Cooperatives were Involved in the Training Series
- 19 Institutions & Organizations Involved (Including Government and Partners)





Contribution to ESG Value

- **Environment:** Encouraging increased institutional capacity of cooperatives regarding the application of Climate Risk assessments for institutions and members and encouraging understanding and application of the principles of Climate Financing and Business Model Canvas in cooperative institutional business planning.
- **Social:** Encourage increased capacity for Mainstreaming Gender Equality & Social Inclusive (PU-GESI) and make PU-GESI part of the system and basic and specific institutional rules in the form of improving SOP, SOM, and AD-ART of Cooperatives.
- **Governance:** Increasing capacity in improving the Institutional Governance (management) of cooperative institutions by creating a clear and structured management system while ensuring that GESI Mainstreaming elements become part of the system and rules in the Institutional SOP and AD-ART and the application of Climate Risk assessments, Business Model Canvas and Climate Financing principles as a reference for cooperative institutional business planning.

Contribution to SDGs



- Providing knowledge about clean and affordable energy to beneficiaries, including good practices for biogas renewable energy



- Share insights and knowledge with beneficiaries about climate change, the impact of climate change on life, and ways to adapt & mitigate climate change



- Cooperate and build collaborative networks with government institutions and civil society organizations



Testimonial

Juweni, KK/KSU Gardu Tani Gedong Songo:

“The direct benefits gained by the cooperative since joining the GENCAR project are networks related to business and enterprise. Related to the environment, the Cooperative is currently collaborating with an existing waste management organization, Rompal. The Cooperative is building cooperation with a funding scheme for Rompal's operations. Previously, the community's habit was to burn or throw garbage in the river. In addition to waste management, the Cooperative is also directly involved in maintaining and managing water resources around the cooperative. Until now, the cooperative continues to strive for agroforestry practices for members in order to maintain the condition of the land and water in Gedong Songo.”

Green Cooperative Policy Stream

Aligning with the program of the Ministry of Cooperatives of the Republic of Indonesia, the Cooperatives and SMEs Service, and Cooperative Field Assistants in mainstreaming Climate Resilient Cooperatives (Green Cooperatives) into the 2025-2029 Strategic Plan, Rules, SOPs, and Policies. The achievements in 2024 are as follows:

- 82 Provincial and Regency/City Cooperative Services and 11 Cooperatives that have been visited directly for audiences



Contribution to ESG Value

- **Environment:** Encourage capacity building for stakeholders, especially for Cooperative facilitators/mentors and Cooperative and SME Services at the Provincial and Regency/City levels in Indonesia regarding risk reduction of impacts and mitigation and adaptation to climate change for cooperatives and their members.
- **Social:** Encouraging the strengthening of the values of the Cooperative's identity as an Educational, Economic, and Social Institution that directly intersects with the community at the grass-roots community level so that it can create a community that is resilient and strong against the risks of climate change.
- **Governance:** Increasing capacity related to institutional governance and opening up opportunities for cooperatives to obtain funding both domestically and internationally in order to have sustainable, environmentally friendly activities.

Contribution to SDGs



- 11 Cooperative institutions spread across 3 Provinces, namely West Java, Central Java, and East Java (Field Survey Data)
- 64 Cooperative institutions that are YRE partners (Blue Data/Biogas)
- 8 Provincial Cooperative and SME Offices covering the Provinces of West Java, Central Java, East Java, Lampung, West Kalimantan, South Sulawesi, West Nusa Tenggara, and East Nusa Tenggara
- 74 Regency/City Cooperative and SME Offices spread across 8 Provinces of West Java, Central Java, East Java, Lampung, West Kalimantan, South Sulawesi, West Nusa Tenggara, and East Nusa Tenggara



- Establishing cooperation with the Ministry of Cooperatives of the Republic of Indonesia
- 8 Provincial Cooperative and SME Offices covering the Provinces of West Java, Central Java, East Java, Lampung, West Kalimantan, South Sulawesi, West Nusa Tenggara, and East Nusa Tenggara
- 74 Regency/City Cooperative and SME Offices spread across 8 Provinces of West Java, Central Java, East Java, Lampung, West Kalimantan, South Sulawesi, West Nusa Tenggara, and East Nusa Tenggara
- 2 Cooperative Association institutions that have conducted FGDs are Inkopdit/CUCO Indonesia and Dekopinwil East Java

Testimonial

Edy Sulistyo Bramiyanto – Head of the Cooperatives and SMEs Office of Central Java Province

“The presence of 15 representatives of the Cooperatives Office of Cities/Regencies throughout Central Java Province is a real form of support from the Cooperatives Office in Central Java Province for the Green Cooperative Policy Mainstreaming Project. It is hoped that input from the discussion during the FGD can be forwarded to the Ministry of Cooperatives and SMEs for input for the ongoing draft of cooperative legislation.”



IMPACTFUL COLLABORATION

Cycle to Recharge at Sunset di Kebun

In October and December 2024, Rumah Energi created a technological innovation called Cycle to Recharge, an environmentally friendly alternative energy-powered charging station. Cycle to Recharge @sunsetdikebun Cibodas Botanical Garden edition, in collaboration with the Adaptive Bike community (@sepedaptif) to share the experience of charging with hand pedaling and renewable energy from solar panels. At @sunsetdikebun Taman Mini Indonesia Indah edition, Rumah Energi modified the appearance of the bicycle charging station and the technique, which relies 100% on foot pedaling.



Impact

More than 100++ people cycling Cycle to Recharge and learn about renewable energy, and also aware about #IndonesiaBerdaya, a campaign held by Rumah Energi. We invites you to contribute to providing access to clean energy and sustainable food for village communities through the #IndonesiaBerdaya movement.

Please visit : <https://www.rumahenergi.org/en/indonesiaberdaya-eng>

Let's connect with us!

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 Rumah Energi

 @rumahenergi

 info@rumahenergi.org

