



IMPACT REPORT

2025



www.rumahenergi.org



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.

In 2025, Rumah Energi walks alongside communities—not as the main actor, but as a facilitator of change. Across villages in Indonesia, farmers, livestock keepers, and women from local communities step forward as the primary drivers of the energy transition. Rumah Energi supports this journey by creating space, strengthening local capacities, and ensuring that each effort toward renewable energy is fair and inclusive. Through initiatives ranging from biogas development to water conservation and policy advocacy, the story of Rumah Energi in 2025 is one of empowered communities building resilience and shaping their own futures in the face of climate change.

This shared journey is reflected in the work carried out throughout the year. The following section presents key achievements from Rumah Energi's projects and programs in 2025, highlighting how community-led initiatives have translated vision into tangible impact on the ground.

⇒ Rumah Energi Contribution on SDGs

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



④ Renewable Energy Program



Rumah Energi 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 2025 are as follows:



215
Biogas
Construction



Reach
11 Provinces



596
Beneficiaries



Reduce
623.5 ton
CO2e Carbon Emission

- ▶ Total achievements of **BIRU program until 2025**:



29,860
Biodigester



171,713
Beneficiaries



Reach out
**20 Provinces,
188 Districts,
3,059 Villages**
in Indonesia



29,458
Trained Farmer



1,297
Trained Masons

④ Contribution to SDGs through the BIRU Program



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



- Reduce shortness of breath, eye infections and stress



- Creating decent work opportunities that support sustainable economic growth while protecting the environment through Green Jobs



- Reducing GHG emissions by 529,404 tCO2e through the development of biogas
- Increase productivity, timely harvest, produce drought-tolerant crops



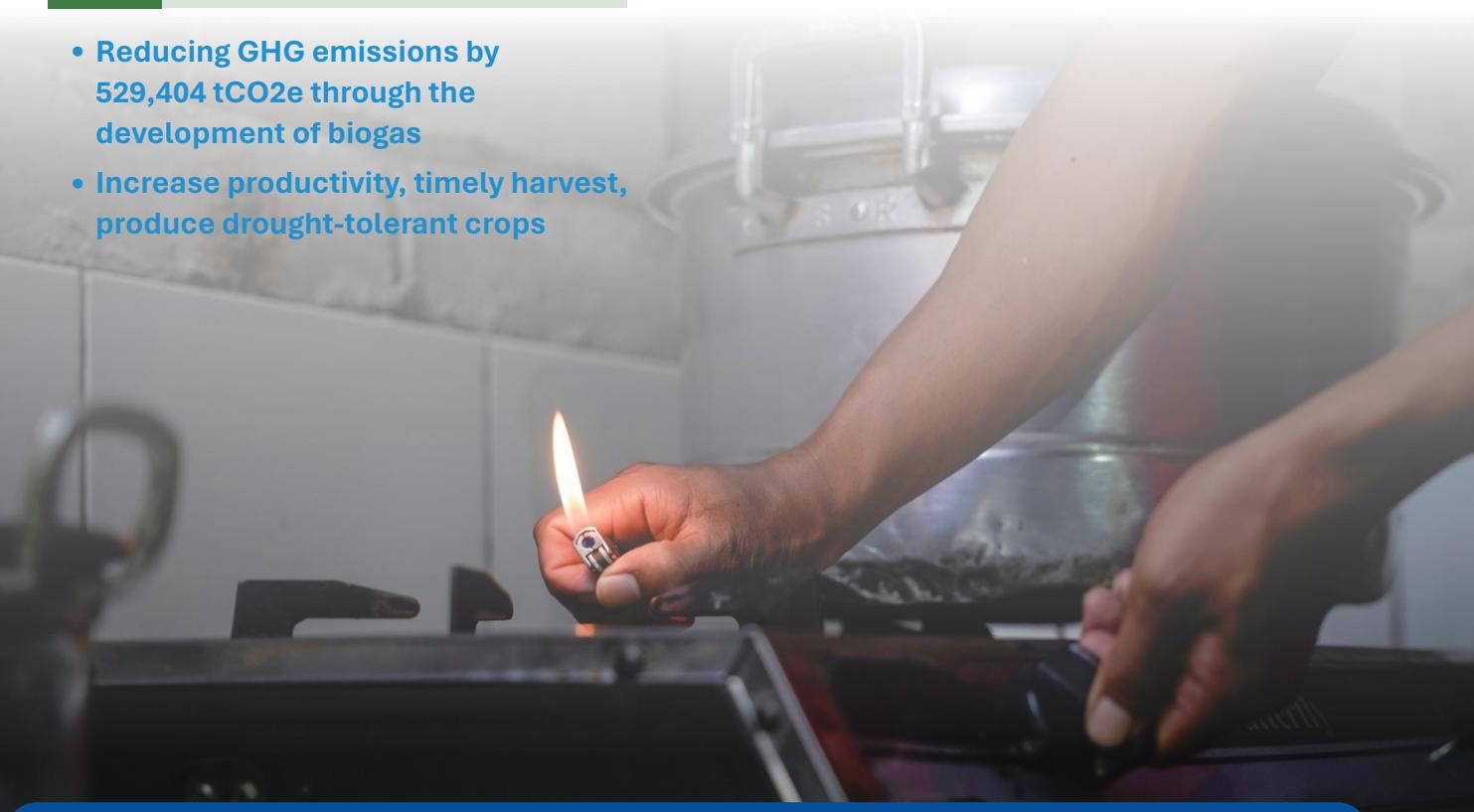
- 136,552 people use biogas as clean energy for cooking
- Reduction in the use of traditional fuels for cooking (7.2kg/day/household)



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



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



④ Project : Implementation of Green Jobs in the Desa Energi Berdikari



Aimed at creating sustainable livelihoods while accelerating the energy transition at the village level. The project empowers local communities—especially young people, farmers, and livestock breeders—by developing green jobs rooted in renewable energy, circular economy practices, and environmental stewardship.

⑤ Testimonial



H. Khoirul Amri, representing the Rokan Hilir Regional Government:

“This initiative reflects the creativity of young people in building a green economy, and it also underscores the importance of sustained collaboration so that green job practices can be expanded to other regions,” said **H. Khoirul Amri**.

④ Project : Renewable Energy for Tourism and Conservation: Cultivating Hope from the Buffer Village of Way Kambas



This collaboration brings together a unique synergy: environmentally conscious investment, eco-friendly technology, and sustainable conservation. More than just a program, the initiative tells a story of hope—showing how investment, innovation, and conservation can move hand in hand to shape a better future.

Through this project, the buffer villages of Way Kambas are not only strengthening their economic resilience but also safeguarding the environment. It is a small step with a big impact: building empowered communities, advancing energy independence, and paving the way for the future of sustainable tourism in Indonesia.



⌚ 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 **Farming Resilience Enhancement for Sustainable Husbandry (FRESH) 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 **FRESH Program** (in collaboration with Sarihusada and Danone Ecosystem), the achievements in 2025 are as follows:

► **Highlights Impact:**

- Good Dairy Farming Practices (GDFP)
- Good Milk Handling
- Biogas Installation
- Gamma Umami Grass Innovation
- Training & Accompaniment to Cooperatives

► **Achievements**



534
Empowered Farmers



Increase in dairy farmers' income by **23%**



Increase in profits for three cooperatives in Central Java & DIY



Local milk supply to Sari Husada **14.3 kL/day**



Reduce **775,88 ton CO2e Carbon Emission**

④ Contribution to SDGs through the LMS Program



SDGs 1

- Provide access for beneficiaries to economic savings from the use of renewable energy, and improve the economic quality of 534 farmer family



SDGs 2

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



SDGs 5

- Involving 156 female farmers



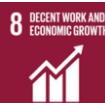
SDGs 12

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



SDGs 7

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



SDGs 8

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



SDGs 17

- Collaborate with stakeholders



④ 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 Policy Readiness

The **Green Cooperative Policy Readiness** program aims to strengthen cooperatives' preparedness to engage in the green transition through the following objectives:

- To establish a clear understanding of cooperatives' baseline conditions, needs, and capacities related to green and sustainable practices through a structured baseline survey.
- To enhance the knowledge, skills, and institutional readiness of cooperatives and local cooperative authorities through targeted training and ongoing mentoring.
- To develop standardized and scalable learning resources by producing training modules that are integrated into the Ministry of Cooperatives' Learning Management System (LMS), ensuring long-term accessibility and policy alignment.

The achievements in 2025 are as follows:



Strategic Agreement with the Ministry of Cooperatives

High-level dialogues, including with the Minister of Cooperatives, secured strong political commitment. The Ministry now recognizes Green Cooperatives as key climate mitigation actors, reinforced by the ongoing legalization of the Rumah Energi–MoC Draft MoU.



Institutionalization of Knowledge

Five Green Cooperative Training Modules, developed with PUSEKRA UGM, have been adopted as national training standards within the Ministry's SIKOPNAS system, ensuring long-term knowledge sustainability.



Successful ToT Dissemination

Training of Trainers for 80 representatives from 25 Cooperative Offices and Institutions achieved a 94% action-readiness rate, enabling participants to serve as local Green Cooperative trainers.



Strategic Recommendations for the 100 GW Solar PSN

Public discussions positioned Village Cooperatives (KDMP) as energy aggregators within the 100 GW Solar National Strategic Project, shifting cooperatives from passive participants to owners and operators of village-level energy assets.



Policy Mainstreaming

Two policy briefs and one operational guideline successfully reframed the national narrative—from cooperatives as mere distribution channels to strategic socio-economic institutions capable of managing renewable energy assets and climate finance.

④ Contribution to SDGs



SDGs 7



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



SDGs 13



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



SDGs 17



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

④ Testimonial

Try Aditya Putra, Acting Assistant Deputy for Organization and Legal Affairs, Ministry of Cooperatives:



④ Pro Women-3



A study project aimed at promoting and strengthening gender mainstreaming and women's empowerment within the context of a just energy transition in Indonesia, with a focus on communities that may be affected by the transition away from coal-fired power plants (PLTUs). The project seeks to reduce systemic gender inclusion gaps in energy policies and practices by ensuring that women have equal access to information, capacity-building opportunities, financial resources, and decision-making roles.

Achievements in 2025:

 A series of mentoring, trainings, seminars, and workshops for 49 women participants under the Pro Women 3 project	 Gender Mainstreaming training using the GALS approach	 Participants were encouraged to actively advocate in formal village forums (village deliberation meetings) by proposing programs and actions to address climate crisis impacts
 Financial Literacy training using the FALS approach	 Training on organic waste management through composting	 Workshop on mapping climate finance opportunities and access
 Introduction to waste bank systems	 GESI Seminar on Energy Transition	 Workshop on new economic opportunities through synergy between BUMDes and KDMP within the energy transition framework
Installation of household-scale renewable energy technologies in two project villages:	 1 biogas unit (8 m ³)	 1 solar dryer house

④ Contribution to SDGs through the Pro Women-3



Gender Equality



Pro Women strengthens women's leadership and participation in decision-making by building their capacity to advocate for gender-responsive and inclusive development at the village level.



Decent Work and Economic Growth



Pro Women enhances women's economic opportunities by promoting financial literacy, waste-based livelihoods, and new green business models linked to local institutions.



Affordable and Clean Energy



The program supports access to clean and renewable energy through the installation of household-scale technologies such as biogas units and solar dryer houses.



Climate Action



The program empowers women to take active roles in climate action by strengthening their knowledge, advocacy, and local initiatives to reduce and prevent climate change impacts.

⌚ Water Conservation



Community-Based Water Conservation Project

The program aims to improve access to clean water at the grassroots level, particularly for low-income communities, the elderly, persons with disabilities, and other vulnerable groups. This is achieved through water conservation actions, increased awareness and knowledge of climate change and the water crisis, and the application of simple, appropriate water conservation technologies.

Achievements in 2025:



More than 1,500 individuals benefited from the program through training, education, and pilot implementation of water conservation technologies in Bekasi & Karawang.



20 rainwater harvesting units were installed.



Over 900 m³ of rainwater was utilized by communities to meet clean water needs.



Two community action plans addressing climate change and the water crisis were developed.

Contribution to the SDGs:

6 CLEAN WATER AND SANITATION



Clean Water and Sanitation :

The water conservation program contributes to SDG 6 by improving equitable access to clean water through community-based rainwater harvesting, capacity building, and the adoption of simple water conservation technologies.

13 CLIMATE ACTION



Climate Action :

The program supports SDG 13 by strengthening community awareness, preparedness, and collective action to address climate change impacts and water scarcity through local conservation initiatives and climate-responsive planning.

④ HATI Cikarang Project



The “See, Share, and Work for Cikarang” program, also known as HATI Cikarang, is implemented by Rumah Energi with support from Amazon Web Services (AWS). The program aims to promote community-based water management in Cikarang by strengthening local capacity and raising awareness of water conservation efforts, while also encouraging the use of renewable energy technologies to support sustainable water conservation. These conservation efforts include river clean-up activities, particularly addressing pollution caused by water hyacinth, as well as the production of economically valuable woven products made from water hyacinth by the Bambu Kuning Community.

Achievements in 2025:



More than 1,200 people benefited from the program through training, education, water conservation actions, and pilot implementation of water conservation technologies.



Six (6) rainwater harvesting units were installed.



One (1) solar dryer house was constructed to support conservation efforts of the Bambu Kuning Community.



More than 280 cubic meters (m^3) of rainwater were utilized by the community to meet clean water needs.



One (1) water conservation community group was supported in developing handicraft products made from water hyacinth.



950 kilograms of water hyacinth were removed from the river during the period of June–November 2024.

Contribution to the SDGs:



Clean Water and Sanitation :

The water conservation program contributes to SDG 6 by improving equitable access to clean water through community-based rainwater harvesting, capacity building, and the adoption of simple water conservation technologies.



Climate Action :

The program supports SDG 13 by strengthening community awareness, preparedness, and collective action to address climate change impacts and water scarcity through local conservation initiatives and climate-responsive planning.

④ Testimonial

Sahid, Chair of the Bambu Kuning Community:

The Solar Dryer House brings new energy to us, especially for the women who have long relied on unpredictable weather for drying. Now the process is faster and more reliable, allowing us to produce more.”



④ Impactful Collaboration



Tennis for Environment

In August 2025, Rumah Energi collaborated with Kitabisa.com and Salingjaga to host Beyond the Tennis for Environment.

The tournament aimed to invite participants to support the adoption of renewable energy technologies and sustainable farming practices for farmers and livestock keepers on the slopes of Mount Merapi.

Appropriate, community-based technologies such as renewable energy have proven effective in reducing living costs, increasing productivity, and preserving the environment.



Impact :

A total of IDR 115,047,000 in donations was raised from 33,412 donors, dedicated to empowering farmers and livestock breeders on the slopes of Mount Merapi through renewable energy.



**Mewujudkan
Indonesia
Berdaya**

**Let's connect
with us!**

 www.rumahenergi.org

 [@rumahenergi](https://www.instagram.com/@rumahenergi)

 Rumah Energi

 [@rumahenergi](https://twitter.com/@rumahenergi)

 info@rumahenergi.org