

Organization
Profile

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Institute for Essential Services Reform



FOREWORD

The massive usage of fossil fuels in the energy system has become one of the major causes of climate change. In the Paris Agreement, as the climate crisis is critical, most countries feel the urge to repress emissions and keep the temperature rise well below 1.5 degrees. Transformative move to a greener energy system is believed to hold the earth's temperature.

As one of the signatories of the Paris Agreement, Indonesia needs to choose a cleaner and sustainable path to modernize its energy system. Deploying renewables on a large scale, electrifying the transport and industrial sector, improving grid quality, and designing a reliable storage system are the steps we have to undergo to reach net-zero emissions in 2050.

All the technologies that we need to transform Indonesia's energy system are available, but to deploy them we need strong leadership and political commitment in providing credible, sound policy and regulatory framework. We believe that to effectuate energy transformation in Indonesia, we need to bring and cultivate innovative ideas and approaches into the policy spaces, close the policy gaps to open up markets and promote investment, intensify active public participation in the policy making process, and enhance good governance in the energy sector.



Fabby Tumiwa
Executive Director
IESR

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WHO WE ARE

Institute for Essential Services Reform (IESR) is a think-tank in the field of energy and the environment established since 2007. IESR encourages transformation to a low carbon energy system by advocating a public policy that rests on data-driven and scientific studies, conducting capacity development assistance, and establishing a strategic partnership with government and non-governmental actors.



WHY WE DO



OUR VISION

Building a world that is better, more sustainable, low-carbon oriented, and able to provide clean, sustainable energy for future generations.



OUR MISSION

Encouraging the acceleration of Indonesia's energy transition towards a just, clean, and low-carbon energy system.



OUR HISTORY

The Working Group on Power Sector Restructuring (WGPSR) is the forerunner of IESR. WGPSR advocated for electricity sector reform in Indonesia after the financial crisis in 1998 and during the program of structural changes carried out by the Indonesian government with the support of the IMF and multilateral development banks. After that, WGPSR was highly involved in advocating policies and regulations on electricity tariffs, subsidies, and the electricity sector's management.

This working group was the first civil society organization to encourage public participation in the formulation of policies and decisions in the Indonesian electricity sector, which was not sufficiently transparent at that time. Based on the results of an external evaluation conducted in 2006, WGPSR recommended not only to work in the electricity sector but also to continue working on broader energy issues and their impacts on the environment.

In 2007, WGPSR was officially registered as a new organization called the Institute for Essential Services Reform.

HOW WE DO



Produce science-and fact-based analyses and studies



Work with various stakeholders (government of Indonesia, Southeast Asia region and international, business, development partners, and CSOs)



Assist and provide capacity building to policy makers and other stakeholders



WHAT WE DO

OUR FOCUS



To support Indonesia's energy transition process towards low carbon and sustainable energy systems.



To promote the creation of an enabling ecosystem for inclusive, sustainable energy access for all – a manifestation of energy democracy. The term access refers to the provision of high-quality energy that encourages productive activities beyond basic services.



Strives to transform the Indonesian economy towards a low carbon economy that accelerates high economic growth, improves human well-being and social equity.



A form of an alliance of global partnerships to support Southeast Asia in its transition to a clean, affordable and safe energy supply system.



Build solutions for the low-carbon transportation of people, products, and services. Our solutions include electrified transportation, whereas we assume renewable energy already dominates the electricity mix.

OUR PORTFOLIO



Research & Analysis

- Deep Decarbonization on Indonesia's Energy System
- Indonesia Energy Transition Outlook 2021
- A Transition towards Low Carbon Transport in Indonesia: A Technological Perspective
- Beyond 207 Gigawatts: Unleashing Indonesia's Solar Potential



Policy Brief

- *Rekomendasi IESR untuk Presiden Joko Widodo*
- *Akselerasi Pembangunan PLTS Atap sebagai Strategi Green Economic Recovery Pasca Covid19*



Strategic Partnership

- Formal collaboration with sub-national government (Central Java Solar Province and Jambi)
- Energy Efficiency for Hotels in Pangandaran



Capacity buildings and pilot projects

- Energy Efficiency Project Development and Financing
- Energy Efficiency for Hotel and Rest Area
- Green Finance Clinic
- *Kampung Surya*
- Energy Delivery Model pilot in Ende, East Nusa Tenggara



Tools

- transienergi.id
- solarhub.id
- Carbon Footprint Calculator (Web Version)



Digital Presence

- Instagram
- Twitter
- LinkedIn
- Facebook Page
- Pinterest
- Podcast "IESR Bicara Energi"
- Youtube Videos

IESR appeared in

2,941
news stories
in 2019/2020



1,970
of online news
publications



736
printed newspaper
appearances

OUR PORTFOLIO



Floating PV can be installed in reservoirs such as Kedungombo, Gajah Mungkur, Wadaslintang, and Mrica. **This work is a collaboration between the Central Java Provincial Government with IESR**, a think-tank in energy and environment, as a follow-up of the Central Java Solar Province,”



source: detikfoto

Ganjar Pranowo
Central Java
Governor

Yurika, *Pemprov Jawa Tengah Siapkan Investasi PLTS Terapung*, Dunia Energi |

PORTFOLIO HIGHLIGHTS

FLAGSHIP REPORTS



(IETO, Beyond 207, Deep Decarbonization, Roadmap Series)

IESR strives to always produce high-quality, accountable, scientific reports portraying the real condition, challenges, and opportunities of Indonesia's energy system. Some of the reports such as "Beyond 207 Gigawatts: Unleashing Indonesia's Solar Potential" and "Deep Decarbonization of Indonesia's Energy System: A Pathway to Zero Emission by 2050" show promising possibilities if the policies are crafted to support development of a cleaner and more sustainable energy system.

ONE MILLION ROOFTOP SOLAR INITIATIVE (*GERAKAN NASIONAL SEJUTA SURYA ATAP*)



IESR has been instrumental in promoting solar energy in Indonesia. Since 2016, IESR has been fostering collaborative action with multiple stakeholders to promote and accelerate solar deployment in Indonesia. In 2017, together with other 13 institutions, including the Ministry of Energy and Mineral Resources, Ministry of Industry, and Indonesian Solar Energy Association, One Million Rooftop Solar Initiative was declared; aimed to achieve a 1-GWp cumulative installation of rooftop solar by 2020 (1by20). Owing partly to the initiative, the government issued the very first ministerial regulation on rooftop solar in 2018.

While the cumulative target has yet to be completed in 2020, the number of rooftop solar users have increased significantly for the past 4 years - from only 268 in 2017 when the initiative was declared, to over 3,000 by the end of 2020. The initiative will continue until 2025 (1by2025).

INDONESIA NET-ZERO EMISSION BY 2050

As the Party's of Paris Agreement, Indonesia commits to put efforts in limiting the global temperature increase below 1.5 °C. Energy sector is one of the primary sources of Indonesia's greenhouse gas emission. IESR has conducted a study by using scientific modelling which shows that renewable energy is technically and economically viable to achieve net-zero emission by 2050. With the new long term strategy aimed at achieving net-zero emission by 2060 or sooner, Indonesia is not on track to meet the target of the Paris Agreement. Therefore, IESR initiated public discussions with relevant stakeholders involving government, NGOs, and academia to encourage strong climate ambitions.

MAINSTREAMING GENDER IN ENERGY SYSTEM

As energy is an essential service, its availability and absence impact the whole spectrum of society, including women. Since 2009, IESR has been working actively to promote gender mainstreaming in the energy system - that the participation and perspectives of women will benefit all.

IESR worked with the Ministry of Women Empowerment and Child Protection and Ministry of Energy and Mineral Resources to promote gender mainstreaming in climate and energy issues. In 2017, IESR developed a collaborative technical guide for gender mainstreaming in small-scale renewable energy projects (based on “special allocated budget” or “*Dana Alokasi Khusus*”).

To date, IESR continues working to highlight inclusive energy access and the notable impacts of sustainable energy to women.



OUR TEAM

The IESR team consists of experts, practitioners, and highly qualified graduates from reputable universities in Indonesia and abroad. They possess in-depth knowledge and experience on various fields such as energy, climate change, natural resource management, environmental issues, general affairs, finance, communication and commit to advance public interests. In addition, they also work and engage with a wide range of stakeholders at local, national, and international levels.

IESR continues to advance the gender equality policy, which leads us to have a share of female workers of 48% in 2020. Further, since 2009 IESR also applies paternal leave for its employees whose wife gives birth.



QUOTES ON OUR WORK



I am really looking forward to how Indonesia can be the world leader in energy transition. Clearly now as we moved to Indonesia hosting G20 in 2022. It'll be a great opportunity to see these issues move forward and see how Indonesia can be a leader on the world stage in terms of the future of energy."

— **Philip Gass**

Lead, Transitions International Institute of Sustainable Development



Indonesia's energy transition is heading towards cleaner and more renewable energy. I think this transition is still just beginning and hopefully there will be more renewables in Indonesia."

— **Mentari Pujantoro**

Project Manager International Energy Transitions Agora Energiewende



Through this event, I hope that Chungnam Province and Indonesia have the opportunity to discuss the climate crisis and the need for a coal phase-out, and join our collective wisdom for the sake of our earth's and civilization's future."

— **Seungjo Yang**

Governor of Chungcheongnam Province, South Korea

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