Press Release:

Innovative and Open Climate Modelling: Experience from Transition Zero

Jakarta, September 1, 2023. This event was held in partnership with TransitionZero as a guest lecture and a roundtable discussion with Indonesia Climate Modelling and Policy Hub (ICLIMB) members at LPEM FEB UI. The event was meant to enhance understanding of the modeling process and results based on experience from TransitionZero, as well as facilitate idea sharing. Experts from ICLIMB Members, academics, non-governmental organizations, and students from the University of Indonesia attended the seminar.

Chaired by Alin Halimatussadiah, Head of Green Economy and Climate, LPEM FEB UI, the 1st session brought two speakers, namely Isabella Quarez (Engagement Analyst, TransitionZero), and Handriyanti Diah Puspitarini, (Energy Systems Modelling Analyst, TransitionZero). The 2nd Session was brought two speakers Matt Gray, (Co-founder and CEO, TransitionZero) and Thomas Kouroughli, (Lead Energy Systems Modeller, TransitionZero).

Alin opened the session with the current short description of the speakers from TransitionZero which are Isabella Quarez and Handriyanti Diah Puspitarini.

Isabella started the session with introduction of TransitionZero. TransitionZero is a climate analytics not-for-profit established to clarify complexity with data transparency. TransitionZero build open energy transition products without usability compromises and partner with mission-aligned organizations to help scale a global standard for energy transition planning.

As the majority of the world has pledged to achieve net zero, Isabella emphasized the need of transparent data as the one of the key successes to develop comprehensive planning and achieve the target. However, the data collection remained the main

challenges. TransitionZero brings the solution to by developing open model initiatives such as Future Energy Outlook (FEO) system, Coal to Clean Price Index (CCPI), and Coal Asset Transition (CAT). These platforms are aimed to untangle the complexity in data collection in energy sector while also shows potential implication of different set of policies. Indonesia is the first country that become the scope of study in the development of these platforms. However, the model is far from perfect, it is needing more exercise.

Handriyanti addressed the importance of open energy models based for supporting the policy maker in designing set of policies. There is also a growing need of transparency that drives TransitionZero to develop open model amid effort to achieve net zero emissions. Thus, Future Energy Outlook (FEO) system are being developed to become open energy model that can be accessible and auditable model, tool, and data platform designed to support energy transition planning. The FEO system has been used to develop a Net Zero Emission Target for Indonesia and Southeast Asian. For Indonesia, In the Future, FEO aims to develop a database of 163 countries with the data level until subnational level.

In the second session, Alin Halimatussadiah opened with short description of Indonesia Climate Modelling and Policy Hub (ICLIMB). A hub that was established in October 2022 to gather all of the think tank who have interested to work in the field of climate science and policy and strengthen their capability of climate modelling. Up until now, ICLIMB have 25 members and 7 knowledge partners, one of them is TransitionZero. Alin opened the discussion with the main challenges of energy modelling in Indonesia is data collection.

Matt and Thomas explained that the data challenges for developing energy modelling are not faced by Indonesia only but other countries too. TransitionZero are built to solve the problem by developing open model dan database. More importantly, TransitionZero initiatives aim to spur ideas on energy models to be able that can be beneficial of for the government in developing their climate policies. Additionally, ICLIMB member also sees the problem of data quality in Indonesia become the main hurdle for them to support the developed of climate planning. ICLIMB member also hopes the initiatives of TransitionZero could give a valuable insight and input for all of the stakeholder in Indonesia’s energy sector.

Based on the discussions among panelists, it can be concluded that there is a growing urgency of data transparency in climate modelling and planning. Accurate and reliable data is a must for supporting the climate modelling and planning. The experience of TransitionZero could become one of the examples of how to develop an open model.