



Environmentally Friendly Technology of CFPP Babelan

(This Press Release is part of the series of Press Releases commemorating the 30th Anniversary of the Company)

Jakarta, November 13, 2023 - PT Cikarang Listrindo Tbk (IDX: POWR), as the longest-serving Public Power



Utility (PPU) in Indonesia since its operation in 1993, brought its extensive experience and highest operational standards during the Commercial Operation Date (COD) of the CFPP Babelan 280 MW back in 2017. CFPP Babelan with nearly 40% of its operational area covered by green spaces, has been operating in compliance with the Blue PROPER standard set by the Ministry of Environment and Forestry (KLHK) and is currently progressing towards the implementation of the Green PROPER standard. The CFPP Babelan uses the latest technology in environmentally friendly steam boilers, namely

Circulating Fluidized Bed (CFB) technology. CFB can utilize a wide range of solid fuels, such as coal and also biomass of various qualities with a combustion temperature range of 850-900°C. CFB technology provides lower nitrogen oxide (NOX) emission levels because of the lower furnace temperatures.

The boiler with CFB technology is supplied by Valmet Oy, a Finnish company that has developed CFB boilers for over 30 years and is recognized as one of the leading suppliers of this technology. CFB technology has been widely adopted in western and developed countries such as Australia, France, Finland, Germany, the United Kingdom, the United States, Japan, and South Korea. In particular, Denmark, Finland, and Estonia are countries that use bioenergy for more than 15% of their electricity production. CFB technology can be designed and operated with 100% biomass.

Choosing CFB technology at the CFPP Babelan enables the use of solid renewable fuels such as palm kernel shells and residual waste wood as a substitute for coal. In the carbon reduction roadmap, the Company will gradually increase the use of biofuels to 20% of the CFB boiler's capacity. In 2021, the Company completed the installation of the biofuel handling system at the first CFB unit of CFPP Babelan in the preparation to achieving the target. This became the pilot project using first palm kernel shells and then woodchips as an initial step in adopting biofuels as a renewable energy alternative to fossil fuels. Other biofuel options will also be considered as alternatives going forward. In 2025, the Company will install and commission another biofuel handling system for the second CFB unit of the CFPP Babelan. This second step will allow up to 25% of the Company's total coal consumption to be replaced by biofuel, and it is in





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line with the Company's commitment to reduce greenhouse gas emissions by 20% by 2030, supporting the government's commitment to the energy sector.

The Company gradually increases environmentally friendly biofuel combustion. The cumulative energy production from biomass combustion from 2020 to September 2023 has reached 124,563 MWh. With this contribution, the Company has succeeded in reducing emissions by approximately 136.4 kTons of CO₂ over nearly four years, equivalent to the carbon absorption of more than 1.4 million mature trees.

In addition, the CFPP Babelan units are equipped with an Electrostatic Precipitator (ESP) which collects particulates produced from burning solid fuel, thereby reducing particle emissions into the air. Controlling sulfur dioxide (SO₂) emissions is carried out by selecting fuel with low sulfur content and by feeding limestone into the boiler to reduce the formation of SO₂ and SO₃. CFPP Babelan air emissions have been monitored in real-time using the Continuous Environment Monitoring System (CEMS) installed in each CFPP chimney. This CEMS is integrated with the Continuous Industrial Emission Monitoring Information System (SISPEK) which can be accessed by the Ministry of Environment and Forestry (KLHK) at any time. This shows the Company's commitment to transparency and professionalism in managing the power station emissions. Emission reporting is submitted to the public through the Company's Sustainability Report and certified by an international independent party. The exhaust gas emissions of SO₂, NO_x, and particulates from CFPP Babelan in the first semester of 2023 are <163 mg/Nm³, <181 mg/Nm³, <32 mg/Nm³, respectively, which are well below the environmental limits set by the KLHK.

CFPP Babelan also uses Air Cooled Condenser (ACC) technology for the cooling process. This technology does not require water for the cooling process like CFPP plants in general. The steam process is cooled by the surrounding air flowing through the steam coil, so it does not have a negative impact on biodiversity or areas experiencing water shortages or making the area around the plant dry.

In 2023, CFPP Babelan is taking a sustainable initiative by building a Nursery House to meet the needs of plants needed for reforestation, both inside and outside the generating area, more than 3,000 trees have been planted, including 5 rare South-Indian Vatica trees (Vatica Chinensis) and the addition of 1,000 acacia trees in 2023. Outside the generation location, the Company has planted 5,000 mangrove trees in Pantai Bahagia Village, North East of Babelan since 2019 and is continuing this year.

Through 3 decades of experience from 1993, the Company has taken the best lessons in running an electricity company that not only prioritizes Profit, but also People and Planet. The greatest contribution is sought with the highest commitment to adding value to stakeholders including the surrounding community and the environment. With the slogan Light that Brings Goodness, the Company encourages Company's employees personally and organizationally to have a good impact on those around them, representing the spirit of the Company's founders 30 years ago.



Cikarang Listrindo at a glance

Cikarang Listrindo is the first private power utility listed in the Indonesian Stock Exchange since 2016. The Company is also the pioneer private power utility in Indonesia that started serving customers since 1993 and currently serving more than 2,500 industrial customers in five industrial estates in Cikarang, and has also supplied electricity to Perusahaan Listrik Negara (PLN) since 1996. The Company's generation capacity currently reaches 864 MW from the GSPP and 280 MW from the CFPP, in addition to the installed Solar Rooftop of 16.0 MWp. This makes the Company one of the largest-capacity electricity companies in Indonesia.

The Company consistently delivers the best service and quality to customers and creates added value for all stakeholders. This is proven by the achievement of various awards throughout 2023 such as the "Natural & Cultural Potential Tourism Village Program (Deswita) in the Bronze category" and the "Socio-Economic Vulnerable Women Empowerment Program (PRSE) through Mangrove Management Innovation in the Silver category" from the Ministry of Villages, Development of Disadvantaged Regions and Transmigration with the Indonesian Social Sustainability Forum (ISSF); "Indonesia Best Companies in HSE Implementation 2023" from SWA Media Group; and "Developing Biodiversity", "Pioneering Pollution Prevention", "Developing Integrated Waste Management" from Indonesia Green Awards 2023 and Jakarta Best Social Responsibility Awards 2023, "Transparency in Corporate Emission Reduction in the Green Elite Category" and "Transparency in Corporate Emission Calculation in the Platinum Plus Category" awarded by Bumi Global Carbon Foundation, Investor Magazine, and B-Universe; recognition as one of the publicly listed companies with High Dividends by TempolDN Financials; and "Asia Sustainability Report Rating 2023" for gold rank.

For further information, please contact:

Corporate Secretary - PT Cikarang Listrindo Tbk

Email: corpsec@listrindo.com

Website: www.listrindo.com