

Press Release

Asrene®SP4808 Chandra Asri Group Supports Indonesia's New Renewable Energy Mix Based on Geothermal

Jakarta, February 6th 2024 – PT Chandra Asri Pacific Tbk (Chandra Asri Group), a leading chemical and infrastructure solutions company in Indonesia, supports the national target for renewable energy mix (EBT) through collaboration by providing infrastructure raw materials for the Geothermal Power Plant (PLTP) project. The company provides Asrene®SP4808 material with a special formulation that can be manufactured into High-Density Polyethylene (HDPE) pipes with PE 100 grade for geothermal field facilities. Asrene®SP4808 is also a local resin that has obtained Indonesian National Standards (SNI) certification and has the highest Domestic Content Level (TKDN) in Indonesia.

HDPE pipes with special formulations applied in geothermal fields can replace the use of steel pipes while offering relatively lower material costs, installation costs, and maintenance or total ownership costs. Compared to steel pipes, HDPE pipes using Asrene®SP4808 raw materials with special formulations have the advantage of being more resistant to corrosion and abrasion, as well as offering flexibility and elasticity, allowing them to adapt to the contours of the geothermal field area.

Geothermal energy is a renewable and sustainable energy source that is environmentally friendly, as it does not produce significant greenhouse gas emissions and can meet electricity needs by harnessing the available heat from the earth's core in various regions. Geothermal power plant projects also contribute to achieving the renewable energy mix target according to the National Energy General Plan (RUEN), which aims for 23% by 2025 and 31% by 2050.

Supriyanto, the General Manager of Technical Service and Product Development at Chandra Asri Group, stated, "Asrene®SP4808 owned by Chandra Asri Group, is an SNI certified resin qualified as PE 100 with the best long-term strength and has the highest Domestic Content Level (TKDN) in its class. The provision of high-quality raw materials also reflects the company's commitment as Indonesia Growth Partner in providing infrastructure solutions for the development of more environmentally friendly renewable energy in this country."

The use of HDPE pipes with special formulations has previously been implemented at the Hamiding Geothermal Field in North Maluku, where they were applied in facilities supporting drilling water supply. Similarly, at the Wayang Windu Geothermal Field in Pangalengan, West Java, HDPE pipes were utilized in facilities distributing mixed condensate water with a temperature of 55°C to injection wells. From these applications, HDPE pipes have proven to be a reliable choice for geothermal facilities due to their reliability and minimal maintenance requirements once operational.

The Geothermal Power Plant (PLTP) process utilizes heat generated from within the earth to produce electrical energy. The process begins with drilling geothermal wells to extract steam generated from heat sources within the earth. The steam is then directed to turbines, where its pressure and temperature are used to drive the turbines and generate mechanical energy. This mechanical energy is then converted into electrical energy through generators. After passing through the turbines, the steam is condensed back into water and then recirculated back into the earth through injection wells.

About Chandra Asri Group

Chandra Asri Group is Indonesia's leading chemical and infrastructure solutions company, supplying products and services to various manufacturing industries in both domestic and international markets. With a history of 31 years and over 2,200 dedicated staff, it incorporates state-of-the art technologies and supporting facilities located strategically in the country's petrochemical and industrial hubs, Cilegon and Serang. Chandra Asri Group operates the only Naphtha Cracker in Indonesia that produces Olefins (Ethylene, Propylene), Polyolefins (Polyethylene, Polypropylene), Pygas and Mixed-C4, and is the sole domestic producer of Styrene Monomer, Ethylene, Butadiene, MTBE and Butene-1, with a new world-scale Chlor Alkali – Ethylene Dichloride plant development on the horizon. Chandra Asri Group's chemicals business is supported by core infrastructure assets encompassing strategic energy, electricity, water, jetty and tank farm facilities.

For further information, please contact:

Chandra Asri Group**Suryandi**

Director of HR & Corporate Affairs

Telp : 021-530 5790

Email : suryandi@capcx.com

Chrysanthi Tarigan

Head of Corporate Communications

Telp : 021-530 7950

Email : corporate.comm@capcx.com