

World Sustainability Forum 2021

Achieving Energy Excellence through Comprehensive Management System

Climate action means stepped-up efforts to reduce greenhouse gas emissions and strengthen resilience and adaptive capacity to climate-induced impacts, including: climate-related hazards in all countries; integrating climate change measures into national policies, strategies and planning; and improving education, awareness-raising and human and institutional capacity with respect to climate change mitigation, adaptation, impact reduction and early warning. It requires mobilizing US\$100 billion annually by 2020 to address the needs of developing countries in moving towards a low-carbon economy. Every country in the world is already experiencing the devastating effects of climate change.

As one of Indonesia's largest companies, Astra is committed to contribute to climate action through implementation of energy efficiency & renewable energy throughout our 238 Affiliated Companies. To manage such diverse business lines, Astra has established a comprehensive Energy Management System (EnMS) known as "**Astra Green Energy (AGEn)**".

Adapting from ISO 50000 series and government regulations, AGEn covers robust tools to assess the EnMS implementation, analyze energy performance, and technical guidance. The implementation of AGEn is monitored regularly through corporate assessment.

One of AGEn main products is the "4.0 Mining Operations". Astra has excelled in implementing real-time monitoring system and big data analysis to achieve energy optimization. Combined with renewable energy (Solar PV) installation and powerful EnMS, Astra has reduced more than 37 million liters of fuel.

Since 2015, AGEn has delivered major contribution such as reducing 4,308 terajoule energy; 0.15 billion USD saving; and reducing 461 thousand tonne CO_{2-eq}.

This session will focus on explaining the importance of participation from all stakeholders to work together to reduce greenhouse gas emissions by using renewable resources.

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