

Mengenali Avian Carbon Reduction Initiative

Sidoarjo, 4 September 2025 - Sejak resmi tercatat di Bursa Efek Indonesia pada 8 Desember 2021, PT Avia Avian Tbk (Avian Brands) menunjukkan pertumbuhan signifikan, tidak hanya dari sisi operasional dan keuangan, tetapi juga dalam komitmen terhadap keberlanjutan. Salah satu inisiatif utamanya adalah *Avian Carbon Reduction Initiative* (ACRI) yang dibangun melalui empat pilar: *Technology, Utility, Heat Transfer, dan Combustion Reduction Initiative*. Inisiatif ini didukung dengan sistem monitoring energi digital, penggunaan energi terbarukan seperti solar panel, dan manajemen berbasis data oleh tim khusus *Quality Assurance & Sustainability Dept* (QAS) dan Sistem Manajemen Energi (SMEn).

Untuk memperkuat tata kelola keberlanjutan, Avian Brands telah membentuk *Quality Assurance & Sustainability Department* serta *Komite Emisi Gas Rumah Kaca* yang beranggotakan personel tersertifikasi BNSP (Manager Energi & Auditor Energi) dan ISO 14064, hingga *Life Cycle Assessment* yang juga tersertifikasi BNSP. Sejak 2021, perusahaan menetapkan baseline emisi dan menyusun *Roadmap ESG* yang mencakup pengurangan emisi cakupan 1, 2, dan 3, serta transisi menuju *Net Zero Emission* tahun 2050. Kebijakan ini diperkuat dalam dokumen resmi perusahaan seperti *Kebijakan Keberlanjutan Pilar Mutu Produk dan Lingkungan dan Dokumen Konteks Organisasi*. **Avian Brands** mencatatkan pencapaian penting dalam upaya dekarbonisasi operasionalnya. Hingga tahun 2024, perusahaan berhasil menurunkan emisi gas rumah kaca (GRK) sebesar **11.244,89 ton CO₂e** atau setara dengan **penurunan 15,99%** dibandingkan baseline tahun 2021.

Avian Brands juga menerapkan standar internasional seperti ISO 14001 (Manajemen Lingkungan), ISO 50001 (Manajemen Energi), dan ISO 45001 (Kesehatan dan Keselamatan Kerja). Integrasi ketiga sistem ini memastikan

An Introduction to the Avian Carbon Reduction Initiative

Sidoarjo, September 4, 2025 - Since its official listing on the Indonesia Stock Exchange on December 8, 2021, PT Avia Avian Tbk (Avian Brands) has demonstrated significant growth, not only in its operations and financial performance, but also in its commitment to sustainability. Among Avian Brands' key initiatives is the *Avian Carbon Reduction Initiative* (ACRI), which is built on four pillars: *Technology, Utility, Heat Transfer, and Combustion Reduction Initiative*. This program is further supported by a digital energy monitoring system, the use of renewable energy sources such as solar panels, and data-driven management by a dedicated *Quality Assurance & Sustainability Department* (QAS) and the *Energy Management System* (SMEn).

To strengthen its sustainability governance, Avian Brands has established the *Quality Assurance & Sustainability Department* as well as the *Greenhouse Gas Emission Committee*, comprising BNSP-certified personnel (as *Energy Managers & Energy Auditors*), ISO 14064-certified personnel, as well as BNSP-certified *Life Cycle Assessment* experts. Since 2021, the company has set an emissions baseline and formulated the *ESG Roadmap* that encompasses Scope 1, 2, and 3 emission reductions, as well as a transition towards *Net Zero Emissions* by 2050. These policies are further reinforced through official corporate documents such as the *Sustainability Policy on Product Quality and Environment Pillars*, as well as the *Organizational Context Document*. **Avian Brands** has successfully recorded a significant milestone in its decarbonization efforts. By 2024, the company successfully reduced its greenhouse gas (GHG) emissions by **11,244.89 tonnes of CO₂e**, equivalent to a **15.99% reduction** compared with its 2021 baseline.

Avian Brands has also adopted international standards, including ISO 14001 (Environmental Management), ISO 50001 (Energy Management), and ISO 45001 (Occupational Health and Safety). The integration of these

pengelolaan emisi dijalankan secara sistematis dan terukur, selaras dengan prinsip ESG global. Komitmen ini pun berhasil membawa Avian Brands mendapatkan pengakuan dari berbagai lembaga rating internasional, seperti **Ecovadis, Sustainalytics, FTSE Russell, MSCI, serta Indeks SRI-KEHATI, ESGQ45, dan ESG Sector Leaders, dan IDX ESG Leaders.**

Sebagai satu-satunya perusahaan cat di Indonesia yang meraih *Proper Hijau* KLHK selama tiga tahun berturut-turut, dan mendapatkan penghargaan Sertifikat Industri Hijau, Avian Brands membuktikan bahwa keberlanjutan merupakan bagian tak terpisahkan dari strategi bisnisnya. Melalui pelibatan seluruh lini karyawan, penguatan tata kelola, dan transparansi pelaporan emisi, Avian Brands menjawab ekspektasi pemangku kepentingan dan regulator terhadap transisi menuju ekonomi rendah karbon, serta memastikan keberlanjutan bisnis jangka panjang. Upaya strategis Avian Brands dalam pengelolaan emisi mencerminkan komitmen terhadap transparansi lingkungan sekaligus menjawab tuntutan investor dan regulator akan data yang kredibel menuju *Net Zero Emission*. Kepatuhan terhadap regulasi dan pelibatan pihak bersertifikasi menjadikan Avian Brands sebagai pelopor yang diakui dalam tata kelola emisi berstandar global.

Avian Carbon Reduction Initiative (ACRI) adalah program strategis Avian Brands untuk mengelola dan menurunkan emisi gas rumah kaca (GRK) secara sistematis sebagai bagian dari komitmen menuju *Net Zero Emission* 2050. Perhitungan emisi GRK mengacu pada tiga standar internasional utama *GHG Protocol*, *IPCC*, dan *ISO 14064*, yang dikenal sebagai “*the big three*”. Ketiganya memastikan metodologi yang komprehensif dan dapat diverifikasi untuk cakupan Scope 1, 2, dan 3. **Data emisi Avian Brands juga telah diverifikasi oleh pihak independen, Decar Verite Asia, guna menjamin transparansi dan kredibilitas laporan.**

three systems ensures emissions management is carried out in a systematic and measurable manner, aligned with global ESG principles. This commitment has earned Avian Brands recognition from international rating institutions such as **Ecovadis, Sustainalytics, FTSE Russell, MSCI, as well as Indexes such as SRI-KEHATI, ESGQ45, ESG Sector Leaders, and IDX ESG Leaders.**

As the only paint company in Indonesia to achieve the Green PROPER rating from the Ministry of Environment and Forestry for three consecutive years, in addition to receiving the Green Industry Certification, Avian Brands has demonstrated how sustainability is an inseparable part of its business strategy. By engaging its employees across all levels, strengthening its governance, and ensuring transparency in emissions reporting, Avian Brands continues to meet stakeholders’ and regulators’ expectations for a transition towards a low-carbon economy while safeguarding long-term business sustainability. Avian Brands’ strategic efforts in emissions management reflect its commitment to environmental transparency, while also responding to investor and regulator demands for credible data toward Net Zero Emissions. Regulatory compliance and involvement of certified parties have positioned Avian Brands as a respected pioneer in emissions management that meets global standards.

The **Avian Carbon Reduction Initiative (ACRI)** is Avian Brands’ strategic program to systematically manage and reduce GHG emissions, as part of its commitment to Net Zero Emissions by 2050. GHG emission calculations are based on three key international standards, i.e., the GHG Protocol, IPCC, and ISO 14064, widely regarded as “the big three.” Together, they provide a comprehensive and verifiable methodology for Scope 1, 2, and 3 emissions. **Avian Brands’ emissions data has also been independently verified by Decar Verite Asia, ensuring transparency and credibility in its reporting.**

ACRI berdiri di atas empat pilar utama: Technology Reduction Initiative, Utility Reduction Initiative, Heat Transfer Reduction Initiative, dan Combustion Reduction Initiative. Technology Reduction Initiative menekankan transisi teknologi rendah emisi melalui konversi 65% forklift berbahan bakar diesel menjadi tenaga listrik, yang berhasil mengurangi emisi sebesar ±5,72 ton CO₂e per tahun. Saat ini, sekitar 65% dari total 67 unit forklift di fasilitas produksi Avian Brands telah menggunakan tenaga listrik, yaitu sebanyak 43 unit, dan perusahaan berkomitmen untuk terus meningkatkan konversi ini di masa mendatang. Selain itu, Avian Brands juga memperkuat penggunaan energi terbarukan dengan memasang total 2.280 unit panel surya di Pabrik Sidoarjo dan Serang, menghasilkan energi sebesar 559.201 kWh (2.013 GJ), pemanfaatan energi surya tersebut menghasilkan potensi pengurangan emisi sebesar ±458,54 ton CO₂e per tahun, yang berkontribusi langsung pada peningkatan bauran energi bersih perusahaan. Serta komitmennya terhadap <i>Renewable Energy Initiative</i> terhadap scope 2. Hal ini merupakan keseriusan Avian Brands, yang dibuktikan dengan kerja sama jangka panjang dengan PLN untuk pengadaan <i>Renewable Energy Certificate</i>. Utility Reduction Initiative berfokus pada efisiensi sistem kompresor udara. Melalui reposisi jalur pipa dan optimalisasi unit kompresor, konsumsi listrik bulanan berhasil ditekan dari rata-rata 112.000 kWh menjadi 66.000 kWh, menghasilkan efisiensi energi ±45.760 kWh per bulan. Dengan faktor emisi listrik Indonesia 0,87 kg CO₂e/kWh, inisiatif ini menurunkan emisi sekitar ±477 ton CO₂e per tahun, mencerminkan perbaikan signifikan dalam manajemen utilitas industri. Heat Transfer Reduction Initiative dilakukan dengan mengoptimalkan operasi Cooling Tower. Melalui program Gugus Kendali Mutu (GKM), konsumsi listrik sistem pendinginan turun dari 33 kWh/ton menjadi 22 kWh/ton produksi,	The ACRI is built on four key pillars: Technology Reduction Initiative, Utility Reduction Initiative, Heat Transfer Reduction Initiative, and Combustion Reduction Initiative. The Technology Reduction Initiative focuses on transitioning to low-emission technology by replacing 65% of diesel-powered forklifts with electric forklifts, resulting in an annual emission reduction of approximately 5.72 tonnes of CO₂e. Currently, 65% or 43 forklifts out of 67 forklifts across Avian Brands' manufacturing facilities are electric-powered, and the company remains committed to increasing this conversion in the future. In addition, Avian Brands continues to enhance its use of renewable energy by installing 2,280 solar panels at its Sidoarjo and Serang plants, generating 559,201 kWh (2,013 GJ) of energy. This solar energy utilization translates into a potential emissions reduction of approximately 458.54 tonnes of CO₂e per year, directly contributing to Avian Brands' clean energy mix and commitment to Renewable Energy Initiatives for Scope 2. This further demonstrates Avian Brands' serious commitment, as also evidenced by its long-term partnership with PLN for the procurement of Renewable Energy Certificates. The Utility Reduction Initiative focuses on enhancing efficiency in the air compressor system. By repositioning pipeline routes and optimizing compressor units, monthly electricity consumption is reduced from an average of 112,000 kWh to 66,000 kWh, achieving an energy efficiency of around 45,760 kWh per month. With Indonesia's grid emission factor of 0.87 kg CO₂e/kWh, this initiative manages to cut emissions by approximately 477 tonnes of CO₂e per year, marking a significant improvement in industrial utility management. The Heat Transfer Reduction Initiative is carried out by optimizing Cooling Tower operations. Through the Quality Control Unit (<i>Gugus Kendali Mutu/GKM</i>) program, electricity consumption for the cooling system is reduced
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menghasilkan penghematan sebesar 405.735 kWh. Dengan demikian, pengurangan emisi yang dicapai mencapai $\pm 332,7$ ton CO₂e, berkat penerapan otomatisasi dan efisiensi sirkulasi pendingin yang berdampak besar terhadap kinerja energi dan lingkungan.

Combustion Reduction Initiative menargetkan efisiensi penggunaan gas alam di proses oven pencetakan kaleng cat. Dengan penerapan automatic change-over valve, rasio konsumsi energi oven berhasil dikurangi dari 0,44 menjadi 0,36 mmBTU/ton. Inisiatif ini memberikan dampak pengurangan emisi sebesar $\pm 174,69$ ton CO₂e, sekaligus meningkatkan efisiensi sistem pembakaran tanpa mengganggu stabilitas produksi.

Avian Carbon Reduction Initiative (ACRI) merupakan program yang mengintegrasikan *carbon accounting*, tata kelola, teknologi, dan budaya efisiensi dalam satu kerangka strategis. ACRI mengadopsi standar internasional seperti GHG Protocol, IPCC, dan ISO, serta melibatkan lembaga independen (Decar Verite Asia) untuk verifikasi data emisi, memastikan transparansi dan kredibilitas pelaporan. Inisiatif ini diperkuat oleh empat pilar utama, *Technology, Utility, Heat Transfer*, dan *Combustion Reduction Initiative* yang secara nyata telah menghasilkan pengurangan emisi signifikan melalui pendekatan berbasis data dan teknologi.

Robert Tanoko, *Director of Operations and Development*, menyatakan: "Avian Carbon Reduction Initiative bukan hanya sekadar upaya teknis pengurangan emisi, tetapi juga refleksi dari komitmen kami untuk menanamkan keberlanjutan sebagai budaya perusahaan, yang terus kami dorong melalui inovasi, digitalisasi, dan keterlibatan seluruh insan Avian."

Selain fokus teknis, ACRI juga menekankan aspek digitalisasi dan pemberdayaan manusia. Avian Brands mengembangkan Portal Avian ESG sebagai platform pemantauan emisi real time, serta membentuk Komite Emisi yang terdiri dari

from 33 kWh/ton to 22 kWh/ton of production, saving 405,735 kWh in total. This efficiency equates to a reduction of approximately 332.7 tonnes of CO₂e, achieved through automation and optimized cooling circulation that significantly improves both energy performance and environmental impact.

The **Combustion Reduction Initiative** targets efficiency in the use of natural gas in the paint can-producing oven. By applying an automatic change-over valve, the oven energy consumption ratio decreased from **0.44 to 0.36 mmBTU/ton**. This initiative contributes to a reduction of **approximately 174.69 tonnes of CO₂e**, while also improving combustion efficiency without compromising production stability.

The Avian Carbon Reduction Initiative (ACRI) integrates carbon accounting, governance, technology, and a culture of efficiency into one strategic framework. It adopts international standards such as the GHG Protocol, IPCC, and ISO, and engages an independent agency (Decar Verite Asia) to verify its emissions data, thereby ensuring transparency and credibility in reporting. Backed by its four pillars of Technology, Utility, Heat Transfer, and Combustion Reduction Initiative, ACRI has delivered tangible reductions in emissions, thanks to its data-driven and technology-based approaches.

Robert Tanoko, Director of Operations and Development at Avian Brands stated: "The Avian Carbon Reduction Initiative is more than a technical effort to reduce emissions—it reflects our commitment to embedding sustainability into the very culture of our company. We continue to drive this commitment through innovation, digitalization, and active involvement of every personnel of Avian."

Beyond its technical focus, ACRI also underscores digitalization and human empowerment. Avian Brands has developed the Avian ESG Portal as a real-time emissions monitoring platform and established an

personel bersertifikasi BNSP dan ISO 14064. Melalui pelibatan lintas fungsi dalam Gugus Kendali Mutu (GKM), ACRI berhasil membangun budaya sadar karbon dari level operasional hingga strategis. Pendekatan menyeluruh ini menjadikan ACRI sebagai model unggulan dalam pengelolaan emisi industri.

Sekilas Tentang PT Avia Avian Tbk

PT Avia Avian Tbk didirikan pada 1978 sebagai perusahaan manufaktur cat terintegrasi. Dikenal dengan nama Avian Brands. Selama lebih dari 4 dekade Avian Brands telah memberikan warna bagi kehidupan jutaan keluarga Indonesia, melalui aneka ragam produk-produk diantaranya Cat tembok Sunguard All in One, Supersilk Anti Noda dan Avitex, cat pelapis anti bocor No Drop, serta cat kayu & besi Avian.

Tercatat di Bursa Efek Indonesia (BEI) pada tanggal 8 Desember 2021 dengan kode saham (IDX: AVIA), AVIA merupakan pabrik cat dekoratif terbesar dan merupakan pemimpin pasar di industri cat dan pelapis dekoratif di Indonesia berdasarkan survei yang dilakukan oleh Frost & Sullivan.

Saat ini, AVIA menguasai ~24% pangsa pasar di industri cat dan pelapis dekoratif di Indonesia. AVIA memiliki kapasitas dan kemampuan manufaktur yang kuat melalui fasilitas manufaktur di Sidoarjo dan Serang. Integrasi vertikal memungkinkan AVIA untuk memproduksi bahan baku secara internal.

Penjualan AVIA terbagi menjadi solusi arsitektur dan barang dagangan. Solusi arsitektur berkontribusi ~80% penjualan dan segmen barang dagangan berkontribusi ~20% penjualan.

Emissions Committee composed of BNSP- and ISO 14064-certified personnel. By involving cross-departmental teams through the Quality Control Unit, ACRI has successfully fostered a carbon-conscious culture from operational to strategic levels. This holistic approach positions ACRI as a leading model for emissions management in the industrial sector.

PT Avia Avian Tbk at a Glance

PT Avia Avian Tbk was founded in 1978 as an integrated paint manufacturing company. Known as Avian Brands. For more than 4 decades, Avian Brands has colored the lives of millions of Indonesian families, through a variety of products including Sunguard All in One, Supersilk Anti Noda and Avitex in wall paints, No Drop waterproofing paint, and Avian wood & metal paint.

Listed on the Indonesia Stock Exchange (IDX) on December 8, 2021, with stock code (IDX: AVIA), AVIA is the largest decorative paint manufacturer and the market leader in the decorative paint and coating industry in Indonesia, based on the survey conducted by Frost & Sullivan.

Currently, AVIA has ~24% market share in the decorative paint and coating industry in Indonesia. AVIA has strong manufacturing capacity and capabilities through its manufacturing facilities in Sidoarjo and Serang, as well as vertical integration capability which enables AVIA to produce some of its raw materials internally.

AVIA's sales are divided into the architectural solutions and trading goods segments. The architectural solutions contributed ~80% of sales, and the trading goods segment contributed ~20% of sales.

Sejak tahun 2020, Avian Brands memiliki pusat riset, pengembangan dan inovasi pertama di Indonesia bernama Avian Innovation Center (AIC) seluas 5.000 meter persegi. Sebagai wujud dari komitmen Avian Brands atas pengelolaan lingkungan, kesehatan dan keselamatan kerja, serta GCG (<i>Good Corporate Governance</i>) sesuai dengan standar internasional, Avian Brands telah berhasil memperoleh dan menerapkan ISO 9001:2015 (Sistem Manajemen Mutu), ISO 14001:2015 (Sistem Manajemen Lingkungan), ISO 45001:2018 (Sistem Manajemen Keselamatan dan Kesehatan Kerja), ISO 50001:2018 (Sistem Manajemen Energi), dan ISO 27001:2013 (Sistem Manajemen Keamanan Informasi). Keberadaan Avian Brands bertujuan untuk memberikan manfaat terdepan dan berkontribusi dalam mewarnai Indonesia.	Since 2020, Avian Brands is equipped with the first research, development, and innovation center in Indonesia called the Avian Innovation Center (AIC), covering an area of 5,000 square meters. As a manifestation of Avian Brands' commitment to environmental management, occupational health and safety, and GCG (Good Corporate Governance) in accordance with international standards, Avian Brands has successfully obtained and implemented ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System), ISO 45001:2018 (Occupational Health and Safety Management System), ISO 50001:2018 (Energy Management System), and ISO 27001:2013 (Information Security Management System). The presence of Avian Brands aims to provide leading benefits and to contribute to creating a more colorful Indonesia.
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