

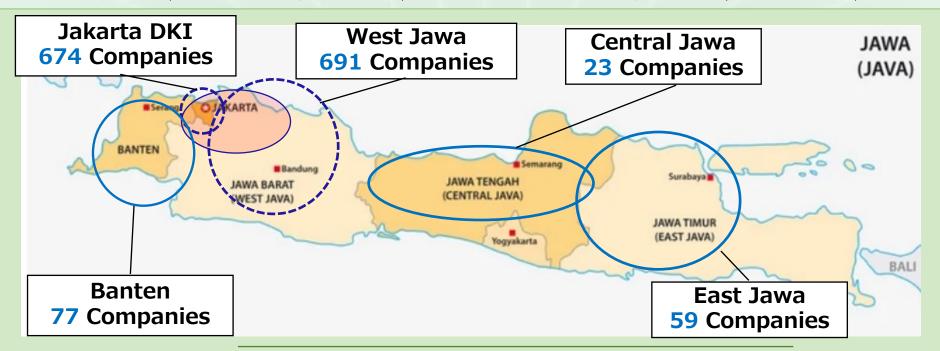


Contribution Towards Net Zero Indonesia

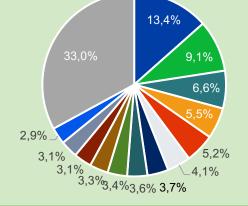
by Japanese Companies

Japanese companies in Indonesia

JETRO Survey in Japanese Companies (August, 2022) : 1,569 companies ref. JJC (Jakarta Japan Club) member: 701 companies (as of 2022)



Numbers of Companies by Sectors



- Transport machinery Parts
- Trading/wholesale
- Ferrous and non-ferrous metals
- Retail
- Construction
- Transportation
- Chemical/Pharmaceutical
- Business related services
- Machinery(general)
- Plastic products
- Electrical and Electronic Mechanical parts
- Textiles/Apparel
- Food and drink
- Others

Directory of Decarbonization Efforts by Japanese Companies



Map of Decarbonization Efforts by Japanese Companies (May 2023)





552 projects by 208 Japanese companies







Solar Power Plant (Under Operation)



Hydropower Plant





Carbon Capture, Utilization & Storage (CCUS)

Vehicle **Electrification** & Battery Storage

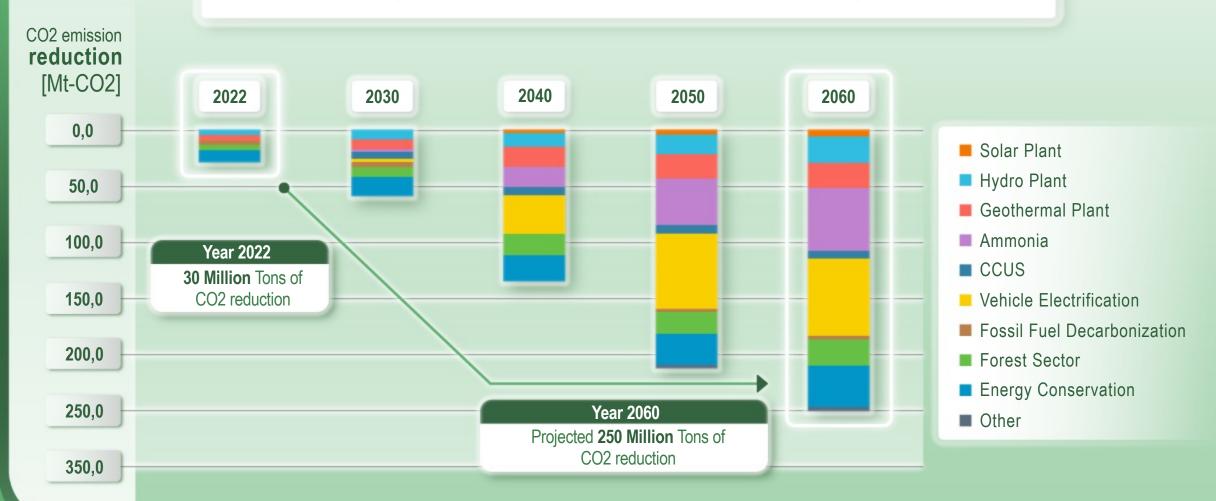


Fossil Fuel **Decarbonization**

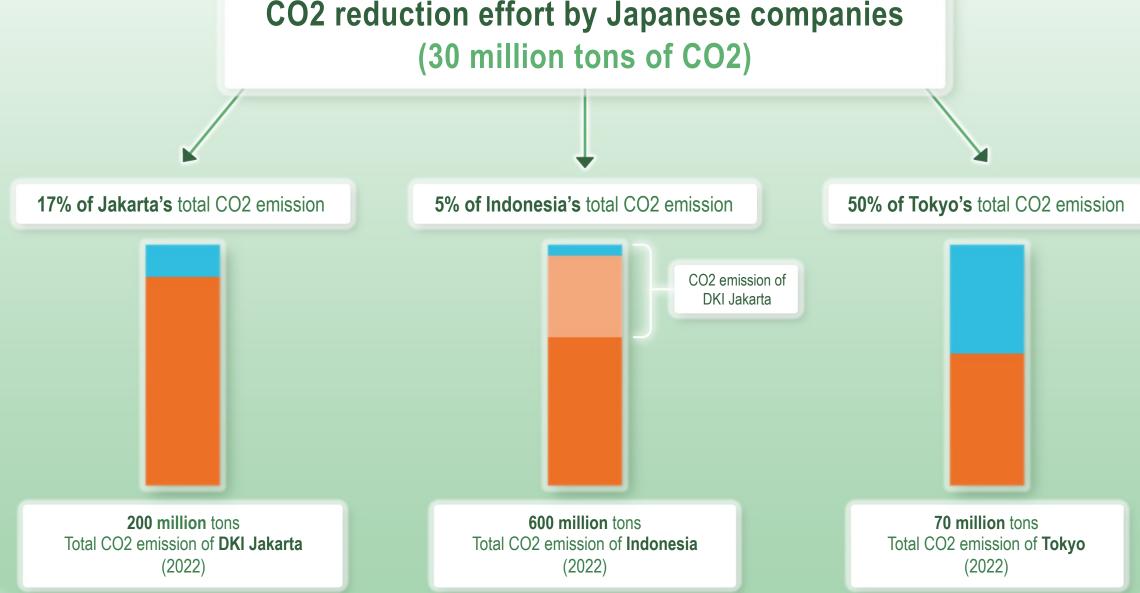




Carbon Emission Reduction by Japanese Companies in Indonesia (Projected amount by various sectors)



CO2 reduction effort by Japanese companies (30 million tons of CO2)



"Business Catalog" for Decarbonization Realization in Indonesia

"Business Catalog" by Japanese Companies for Decarbonization Realization in Indonesia

Edition 4 (April 2023)

-Battery as a Service-

PT. Santomo Resources Indonesia

Product and service outline

- While working on electric motorbike batteries using BaaS (Battery as a Service) business, we are also contributing to the realization of Indonesia's decarbonization and expension construction. At the present time we are conducting electrical motorbike sale and battery replacement station service for the motorbike, and also offering services related to all of these.
- Electric motorbike being sold at present has 60 km maximum travel distance with 1.500 W power. Roughly it has the same running performance as an BOcc engine displacement gaspline motorbike. The most special feature is the battery can be exitched, so it doesn't necessary to charge it at home or charge it at the charging station. The battery usually needs a charging time of around 4 to 6 hours, but this service offers a battery switch within seconds, which is realizing waiting time solution for the user's charging challenges. Users will use an exclusive application, so they can see the motorbike's condition and the nearest battery switch station.
- At the present, electric power for the battery switch station has been supplied by R.N. but by using a renewable energy source's supply which has been considered to have more contribution to carbon neutral. And for now, the battery is only used for electric motorbikes, but function expansion to use it for other household appliances has been considered and hereafter there is a plan to carry out a verification experiment.

Langkah-langkah dekarbonisasi yang dapat segera dimulai Penyewaan Tenaga Surya

PT. ATW Alam Hijau





pembangkit tenaga surya terutama untuk pengguna industri seperti gan tidak perlu menanggung sendiri biaya pemasangan sistem nemperoleh tenaga hijau dalam jangka panjang tanpa investasi awal. Ini

ketiga", dan kami akan melakukan operasi dan pemeliharaan selama roduk ini, selain berkontribusi untuk dekarbonisasi, juga berkontribusi

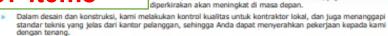


Produk & Layanan

Actual result and example

- On February 17th, 2022 there was an MOU signing with PT Swap Energi Indonesia. As the same company's partner which has managed a monopoly on BasS business in the eastern Indonesia area. At the present it is running 7 battery switch stations in Makassar city, Sulawesi Island, Based on the cooperation with PLN, 6 stations were established in the PLN offices within Makassar city.
- On March 18th of the same year there was an MOU signing with PT Goto Gojek Tokopedia, which then setting for a goal to make all two-wheeled vehicles owned by Gojek drivers within the same mentioned area to be electrical in 2030. At the present, there are 20 units of electric motorbikes being used by Gojek driver.
- Travel distance, unprepared charging infrastructure, and unit price problems can be seen as the obstacles to the electric motorbike popularization, but in this project, the aforementioned problem had been settled and ready for the challenge to improve the userfriendliness. The travel distance and charging infrastructure problem had been settled by using the battery switch type electric motorbike and the battery switch station's establishment and expansion, and the unit price problem had been settled by selling the electric motorbike at the same price as low engine displacement. model's gasoline motorbike. According to some drivers' opinions, they believe that it is lower compared to gaspline motorbike fuel
- At the present, we are analyzing the running performance and battery switch data, carrying out a user interview, and improving service and battery switch station's places.

Total 37 items



Selain itu, solusi komprehensif meliputi penerapan Joint Crediting Mechanism (JCM) Kementerian Lingkungan Hidup (Jepang), peningkatan ketahanan dengan memperkenalkan baterai penyimpanan dan penggunaan energi terbarukan 100% dengan memberikan sertifikat I-REC

Pencapaian & Hasil

PT ATW Alam Hijau memiliki rekam jejak pemasangan fasilitas PLTS di Jawa Barat, Jawa Timur, Bali, dan Batam

The of the	100
1000	
ALCOHOL:	
	-





<Dijadwalkan untuk diperkenalkan (per Juli 2022) > Pembuat kertas, pembuat kebutuhan sehari-hari, pembuat kemasan (semua di Jawa Barat)



Indonesian



Indonesian



English



Japanese

Available from JETRO Website

Contact point

-Phone nun

-E-mail add

English

"Business Catalog" Edition 4 (April 2023)

1. Renewable





5. Energy Conservation



8 items

2. Biomass





6. Digital technology



4 items

3. Decarbonization of Fossil Fuels, CCUS

4 items



7. Effective use of resources



2 item



2 items



8. Finance/Insurance



Further Works/ Policy Recomendations

Actions Taken by JJC/JETRO

- Socialization of Japanese Products/Services
- Business Matching on energy sector
 - Biomass such as PKS, woodchip
 - Energy Management Consultants for SMEs in Indonesia
- Cooperation with Gol, ASEAN Institutions, Indonesian Industry

