Revenue and emission reduction benefits from FET's low-carbon products

Type & Description of product(s)	Level of aggregation	% of total revenues from "climate change" product(s) in the most recently completed fiscal year	Estimated total avoided emissions per year (MT CO2e/year)
Low carbon product(s)	Company-wide	0.88%	823.47
Avoided emissions for third-parties	Company-wide	5.13%	34,231.39

Type	Description of product(s) Please specify a relevant example:	Level of aggregation	Sales from products (million monetary units)	% of total revenues from "climate change" product(s) in FY 2023	Estimated total avoided emissions per year	Comment
Avoided emissions for third-parties	**Taoyuan Smart NB-IoT Streetlights Project** FET's smart streetlights management project coordinates LED lighting technology utilizing self-branded streetlights controllers and 4G/NB-IoT communications technology to collect real-time data on streetlights. FET	Company-wide	**257**	0.27%	29,358	The project is to replace all street lights with smart street lights throughout Taoyuan City, where more than 160,000 lights are needed, making it a project with the most lights needed in the world. The direct benefits include a drop in annual electricity expense from NT$219 million to NT$66 million, a reduction of annual

	received the "Taoyuan Smart NB-IoT Streetlights Project," which is the largest in Taiwan and in the world, and has installed 88,666 smart NB-IoT streetlights. The construction of smart streetlights can mitigate climate change, improving air pollution, reducing traffic accidents.					carbon emissions by 60,000 MTs, a decrease in MTTR from 48 hours to 24 hours, and an effective lumen maintenance rate of 99.7%. In 2023, a total of 8,125 new streetlights were installed, generating a revenue of 240 million TWD from the overall streetlight service. Based on the total number of 88,666 installed streetlights, a total of 59,310,000 kWh of electricity was saved last year, resulting in a total carbon reduction of 29,358 metric tons.
Avoided emissions for third-parties	**FET 5G telemedicine** Combine high-speed 5G, IoT technology and create a 5G telemedicine platform. The distance diagnosis and treatment solution transmits the patient's physiological measurement data and detection images at the health center or at home, and transmits the patient's physiological measurement data and detection images in real time to the specialists in the remote medical institutions for video consultation/multi-party consultation, providing comprehensive and complete information for the people in remote villages and outlying islands. Medical services, realize	Company-wide	**81**	0.09%	881.81	Through telemedicine, the need for transportation is significantly reduced. Taking the 5G telemedicine project in Taitung County as an example, the sustainability benefits assessment shows that the telemedicine service can reduce carbon emissions by an average of 12.73 kg per person (mitigating climate change). In 2023, 6,927 patients has been treated in rural areas, resulting in an estimated carbon reduction of 881.81 metric tons.

	the remote action of medical care, zero-day difference, and uninterrupted medical care.					
Avoided emissions for third-parties	**Prepaid eChannel** Pre-paid e-channels enable client to pay online to reduce the waste of paper bills	Company-wide	**113**	0.12%	8.3	By actively promoting and optimizing processes, attract more Pre-paid e-channels users to use the app/official website for recharging. Pre-paid e-channels enable client to pay online to reduce the waste of paper bills. In 2023, by saving 458,912 paper recharge cards or receipts (using the A4 paper emission factor of 0.018) / 1000, a total of 8.3 metric tons of CO_2e was reduced per year.
Low carbon product(s)	**Low Carbon IDC** The newly established Cloud computing center in the northern region adopts the latest cooling technology, including free cooling and cooling wall systems. Upon calculation, the Power Usage Effectiveness (PUE) exceeds the original design by 9% and is superior to the industry average of 27%. It meets the Leadership in Energy and Environmental Design (LEED) standard and can effectively enhance the energy utilization efficiency. We gradually switch to	Company-wide	**827.41**	0.88%	823.47	According to the Technical Guidance for Energy-saving Applications published by the Data Center of the Bureau of Energy, Ministry of Economic Affairs (2018 P5), the survey of 289 engine rooms in the EU and the U.S. indicated that the average PUE was 1.80, while PUE of FET's IDC engine room was 1.59. The calculation is as follows:(1) PUE1.8VS 1.59 (Saving 11.66%)(2) Facility electricity saving: 1,663,577kWh (3) In 2023, electricity consumption of IDC engine room was 11.66% lower than market average, GHG reduction: 823.47 metric tons CO_2e

	cooling and power systems with higher efficiency at our IDCs.				(1,663,577 (kWh) x 0.495 (kg CO_2e/kWh)/ 1,000 =823.47 (tCO_2e))
Avoided emissions for third-parties	**E-commerce** The e-commerce marketplace , friDay Shopping, reduces carbon emissions caused by shopping trips through its e-commerce platform services.	Company-wide	**3353**	3.58%	1751.28	The number of orders at friDay Shopping * distance to shopping centers * carbon emission coefficients (for cars mostly) [The number of orders in 2023 (1,239,807 times) * average shopping distance (6.29 kilometers) * carbon emission coefficient for cars (0.22457)/1000 = 1751.28355 MT CO_2e/year. The coefficient is based on Scope 3 emission under GHG Protocol.
Avoided emissions for third-parties	**Energy Management Service** FET's self-developed Energy management system (EMS) can use AI to enhance the learning of air conditioning demand response function, which can be controlled according to the air conditioning on and off habits and temperature prediction. In line with government policy, FET helps manage the energy use of more than 1,000 schools and 40,000 classrooms with EMS, making FET the largest energy manager in Taiwan.	Company-wide	**1000**	1.07%	2232	In 2021, in response to the government's new energy policy, efforts were made to equip 1,290 schools with over 42,000 classrooms across 9 counties and cities in Taiwan with air conditioning within two years, covering elementary to high schools. Simultaneously, the school's power systems were upgraded, energy-saving equipment was added, and the proportion of green energy was increased. By projecting an energy saving of 107.35 kWh per classroom, the calculation is as follows: 107.35 kWh * 0.495 kg CO_2 * 42,000 classrooms = 2,232,000 kg CO_2.