

Impact Valuation for Materiality Issue

Material Issue for External Stakeholders	Relevance external stakeholders	Topic relevance on external stakeholders	Quantitative metric rationale	Output Metric	Impact Valuation rationale	Impact Metric (TWD)
The fleet's aircraft models are outdated	<ul style="list-style-type: none"> Environment Society Consumers Investors Government External employees 	<p>China Airlines recognizes that an aging fleet can have significant negative impacts on the environment and society, such as high carbon emissions, potential safety concerns, and reduced passenger comfort and convenience, which can lower travel willingness and affect the company's revenue.</p> <p>To address these issues, China Airlines is actively pursuing a fleet modernization program. The new-generation fleet offers advantages in aircraft design, fuel efficiency, operational performance, and product standardization. These enhancements not only significantly optimize the cost structure but also serve as a major driver in achieving the goal of net-zero carbon emissions by 2050.</p>	China Airlines refers to the report published by the U.S. Environmental Protection Agency, "Report on the Social Cost of Greenhouse Gases", which mentions the social cost caused by each ton of carbon emissions, and uses this as one of the indicators to measure carbon-related social costs.	<p>6,224,228</p> <p>Ton CO2 Emission (Scope1)</p>	Fleet aging may raise CO2-related social costs	10,192,260,093 (TWD)
Energy Conservation	<ul style="list-style-type: none"> Environment Consumers Investors Government 	The aviation industry uses a large amount of fuel during operations, and ground operations also require the use of electricity. Energy conservation can help corporations effectively understand the current status of energy use and take energy-saving measures, which will have positive benefits for the environment.	Renewable energy usage is an important indicator of avoided greenhouse gas emissions, and China Airlines uses it as one of the indicators to measure avoided carbon-related social costs.	568,343 kWh	Avoids CO2 social costs by using renewable energy	459,751(TWD)