

綠能轉型 淨零共贏

(Green Energy Transition to Net Zero Emissions)

台糖公司配合政府能源轉型政策，盤點自身土地優勢及農牧業資源，並導入循環經濟模式，擘劃淨零排放 4 大路徑藍圖，落實節能減碳、增加綠能供給，加速臺灣邁向 2050 淨零排放目標。

Responding to government's energy transition policy, TSC have been taking inventory of its own resources of land, agriculture and livestock farming, and further combines them with circular economy to plan the 4 pathways to net zero. TSC acts to reduce carbon emissions and increase green energy supply for speeding up Taiwan's energy transition to reach the goal of net zero emissions by 2050.



TSC's Net Zero Emission Development

Renewable Energy- Increase energy supply / Greener energy usage

Investment Management- Green procurement / Low-carbon business models

Agricultural Activities- Carbon reduction in agriculture and livestock / Carbon capture in ecosystems

Administrative Management- Promote energy-saving behaviors / Organizational planning

- **落實節能減碳**— 2022 年溫室氣體總排放量較 2021 年減少 63.43%，各單位推動節電節能作為，換算總節能量約 13,118GJ，減碳約 969.33 公噸 CO₂e。Energy-saving and carbon reduction- TSC's overall GHG emissions is decreased by 63.43% in 2022 compared with 2021. In 2022, the results in electricity and energy saving in all units were converted to a total of 13,118 GJ, reducing

approximately 969.33 tons of CO₂e.

- **增加綠能供給**— 建置屋頂型、地面型及水面型太陽能發電設備，並充分利用蔗渣、畜牧業糞尿等廢棄資源，推動農廢資源發電。

Increase green energy supply- TSC installs solar panels on rooftops, grounds, and detention ponds, and turns the wastes from agriculture, livestock farming and other biomass into green energy.

2022 年台糖公司太陽能及農牧廢棄資源發電成效

(2022 TSC's power generation from solar PV and agricultural and livestock farming wastes)

發電方式 Types	總裝置容量 Total Capacity	總發電量 (萬度) Total Power generation (10,000 kWh)	減碳量* (萬噸) Total reduction in CO ₂ emissions (10,000 tons)
太陽光電 Solar PV	334.05(MW)	62,996.00	31.18
豬糞尿沼氣發電 Pig manure and urine for biogas power	460 (kW)	135.28	0.07
製糖剩餘蔗渣汽電共生 Sugarcane bagasse for cogeneration	6(MW)	1,179.05	0.58
合計 Total		64,310.33	31.83

*依能源局公布 111 年度電力排碳係數 0.495 公斤 CO₂/度換算。

It is calculated based on 2022 Electricity Carbon Emission Factor 0.495 kg CO₂/kWh issued by BOE.

*台糖 13 座農業循環豬場全數改建完成後，沼氣發電裝置容量預計為 1,200 kW。

After 13 TSC agricultural circulation pig farms are fully completed, their overall biogas capacity is up to 1,200 kW.



台糖滯洪池水面型光電場
TSC floating solar plant



台糖東海豐豬舍屋頂型太陽光電
TSC DHF agricultural circulation pig
farm roof-mounted solar panels



台糖 2022 榮獲年 TCSA 台灣企業永
續獎及 BSI 永續韌性獎肯定
TSC received 2022 Taiwan
Corporation Sustainable Award and
2022 BSI Sustainable Resilience Award