

## 台糖減碳農業與碳匯發展

### ● 減碳農業 (Carbon Reduction in Agriculture)

甘蔗屬 C4 型植物，可吸收及儲存大量 CO<sub>2</sub>，本公司自營蔗園休耕期（每年 3-6 月）全面種植綠肥作物-太陽麻（2023 年預計種植面積 518.73 公頃），同時將蔗渣、濾泥及乾豬糞回填蔗園，減少化肥使用，更能提高地力及土壤碳儲存。台糖積極與學術機構合作建立土壤基準線、參與業界小農種碳專案，並規劃申請國際土壤碳匯認證，讓製糖產業減排固碳、淨零永續。

Sugarcane is a C4 plant capable of absorbing and storing a large amount of CO<sub>2</sub>. During the sugarcane fallow period, from March to June every year, TSC grows a leguminous green manure crop, Sunn hemp, on its self-operated farms, with a total planted area estimated to be 518.73 acres by the end of 2023. Meanwhile, sugarcane bagasse, filter mud, and dried swine manure are applied to the farms to reduce the use of chemical fertilizers and enhance soil fertility and carbon sequestration. TSC is actively cooperating with academic institutions and industrial partners to establish a baseline for soil carbon storage in sugarcane fields, engage in a carbon capture projects, and apply for international soil carbon sequestration certification. It aims to make sugar industry less carbon emission, better carbon sequestration, and more environmentally friendly.



台糖蔗園休耕期種植綠肥作物-太陽麻  
During the sugarcane fallow period, TSC grows Sunn hemp on its own farms, and then bury the crop in the soil for green manure purpose.

	<p>蔗渣及濾泥回填農場 sugarcane bagasse and filter mud are applied to the farms.</p>
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● 碳匯發展(Caron Sequestration in Afforestation )

台糖現有 10,402 公頃平地造林地，推估每年可創造 11.6 萬公噸二氧化碳當量 (tCO<sub>2</sub>e) 的固碳效益，也盤點旗下森林碳權適宜地 (規劃約 2,833 公頃)、建立蓄積量資料庫、辦理「林後四林平地森林園區核心經營區內碳匯專案」，配合農業部林業署 ESG 憑證規劃等方式，促進國內森林碳匯發展，邁向淨零永續目標。

TSC has 10,402 acres of flat land afforestation which is estimated to provide about 116,000 tons carbon dioxide equivalent (tCO<sub>2</sub>e) carbon sequestration benefits annually. TSC has been taking inventory of forest carbon rights (about 2,833 acres), developing a storage database, carrying out "Carbon sink project in the core area of the Linhousilin Forest Park," and cooperating with FANCA in the ESG certification program, to speed up carbon sequestration in afforestation and to move toward the goal of net-zero emissions.

	<p>台糖平地造林 TSC's flat land afforestation</p>
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