

Tamkang University Approved for MOEA Service Capacity Registry, Green Manufacturing Advisory Team for Metal Industry Established

Campus focus

To assist industries in responding to the net-zero emissions trend and the demand for low-carbon transformation, Tamkang University has recently been officially certified under the Ministry of Economic Affairs (MOEA) Industrial Development Administration's "Technical Service Institution Service Capacity Registration" (「技術服務機構服務能量登錄」). The University has obtained a qualification for "Green Manufacturing—Low-Carbon Process Technology Services for the Metal Industry (SD6)" (「綠色製程——金屬產業低碳製程技術服務 (SD6)」). In the future, Tamkang will serve as a technical advisory unit for carbon-reduction programs related to the metal industry under the Industrial Development Administration, and will be able to leverage government resources to support companies in process improvement and industrial upgrading.

The "Green Manufacturing—Low-Carbon Process Technology for the Metal Industry" initiative is coordinated by the Office of Research and Development, while the Champion Incubation and Industry Collaboration Center serves as the primary contact window for enterprises, providing structured and professional technical services. The registered service capacity covers low-carbon process technologies for metal processing and surface treatment, including energy-saving process optimization, the introduction of low-carbon technologies, energy consumption and carbon emission analysis, as well as technical verification and advisory services. These services will help enterprises reduce process energy consumption and carbon emissions, while improving operational efficiency and sustainable competitiveness.

Dean of Research and Development Po-Shen Pan noted that Tamkang University has long been committed to industry-academia collaboration and sustainable development. In recent years, the University has actively engaged in low-carbon transformation initiatives and in-depth energy-efficiency

diagnostics in industrial parks. By integrating interdisciplinary expertise from electrical engineering, chemistry, chemical and materials engineering, information management, and mechanical engineering, the Tamkang faculty have assisted numerous metal-processing and manufacturing companies in process inventory assessments, equipment efficiency evaluations, and quantitative carbon-reduction analyses, while proposing practical and feasible improvement strategies. These efforts have enabled the University to accumulate substantial hands-on advisory experience.

Shu-Han Liao, Director of the Research and Industry-Collaboration Section, pointed out that passing the service capacity registration not only signifies that the University possesses stable and institutionalized technical service capabilities, but also demonstrates that Tamkang has established a sustainable professional foundation for external services in promoting “AI+Sustainability (SDGs)” and industrial low-carbon transformation. In the future, the University will continue to deepen industry-academia collaboration through technical consulting, practical validation, and talent cultivation, helping enterprises steadily advance low-carbon manufacturing processes and sustainable operations while meeting regulatory requirements and international supply chain standards.

In recent years, Tamkang University has actively implemented its technical capabilities in Dayuan Industrial Park, New Taipei Industrial Park, and Nangang Software Park. Through the Industrial Development Administration’s Industrial Low-Carbon Transformation Program, the University has assisted companies in conducting carbon emission assessments and in-depth energy-efficiency audits. By integrating AI, big data, and Internet of Things (IoT) technologies, Tamkang has also introduced smart manufacturing solutions to help small and medium-sized enterprises address the dual challenges of digital transformation and net-zero emissions.

Currently, six advisory teams at the University are engaged in industrial park consulting programs. With the addition of faculty specializing in metal processing and green manufacturing, Tamkang has now established a seventh advisory team—the “Green Manufacturing Advisory Team for the Metal Industry”—to address the transformation needs of metal-processing

companies in industrial parks. The technical service personnel certified for the low-carbon process technology services for the metal industry include Po-Shen Pan, Dean of General Affairs Ruey-Shiang Shaw, Shu-Han Liao, Assistant Professor Hsiao-Chi Hsieh from the Department of Chemical and Materials Engineering, and Assistant Professor Yen-Ting Li from the Department of Mechanical and Electro-Mechanical Engineering, demonstrating the University's strong interdisciplinary integration capability and commitment to supporting industrial transition toward low-carbon sustainability.

技術服務機構服務能量登錄證書
Certificate of Registration as a Technological Service Organization

茲證明 淡江大學學校財團法人淡江大學

This is to certify that Tamkang University

符合「經濟部產業發展署技術服務機構服務能量登錄作業要點」，登錄類別為永續發展服務機構，通過登錄之技術服務項目及分項為：

has met the regulatory requirements of an Sustainable Development Service Organizations in the following technical service items and sub-items.

綠色製程項目：

金屬產業低碳製程技術服務
表面處理低碳製程技術服務

Green process：

Metal Industry Low Carbon Process Technology Services
Surface Treatment Low Carbon Process Technology Services

登錄日期：中華民國 115 年 01 月 01 日
有效期限：中華民國 117 年 01 月 01 日

This certificate is valid from January 01, 2026 to January 01, 2028

經濟部產業發展署 署長

邱求慧

Director General
Industrial Development Administration
Ministry of Economic Affairs
Republic of China

Chyau-Huey Chiou

NO: 114-SD-6-37300900-0037

