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[SDGs 7] Affordable and Clean Energy 可負擔能源

[7.4.4] Does your university as a body inform and support government in clean energy and energy-efficient technology policy development?

The **Energy and Environmental Technology Center** at NCUT is a **first-level technical service center** dedicated to advancing **energy** and **environmental sustainability**. Its core mission is to provide **practical technical services** and foster **cross-school, international, and corporate collaborations** to promote sustainable development. The center plays a pivotal role in developing and implementing strategies that align with current and future global energy and environmental needs.

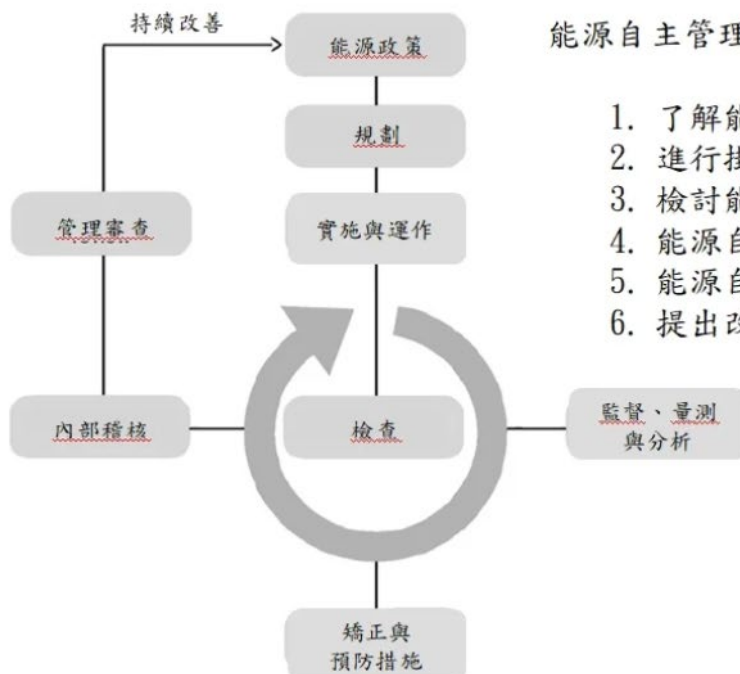
Key Objectives of the Energy and Environmental Technology Center:

1. **Forward-Looking Energy and Environmental Strategies:** The center focuses on creating strategies and plans that are **visionary yet practical**, ensuring they are both aligned with global trends and tailored to local conditions. These strategies are aimed at fostering **sustainable energy usage** and addressing environmental challenges effectively.
2. **Local Balance and Smart Management:** Strengthening the **local balance** of energy usage and environmental management is a priority. By promoting **smart management** systems in industries, the center helps businesses optimize their energy consumption and minimize environmental impact.
3. **Industrial Energy Management and Talent Training:** The center supports the **establishment of independent energy management systems** within industries. It also plays a vital role in **talent development**, offering **training programs** to equip professionals with the necessary skills to manage industrial energy efficiently.
4. **Energy and Environmental Testing and Certification:** Promoting the **testing and certification** of energy and environmental systems is another core function. The center advocates for **dual certification** systems, ensuring that industries meet both **energy efficiency** and **environmental standards**.

In essence, the **Energy and Environmental Technology Center** at NCUT serves as a bridge between academia, industry, and international partners, working towards a balanced and sustainable approach to energy and environmental challenges while fostering innovation and expertise in these critical fields.



能源自主管理流程





NCUT's ESG Sustainability Center: Pioneering Carbon Management and Sustainable Transformation

In response to the increasing frequency of extreme climate events and the global push for net-zero carbon emissions, **NCUT established the ESG Sustainability Center** in 2023. The center aims to support companies in the central region of Taiwan in their sustainable transformation, providing comprehensive one-stop services to implement effective carbon management strategies. Over the past two years, the center has become a crucial partner for enterprises in the Taichung-Changhua-Nantou area, facilitating their transition towards sustainability.

Importance of Carbon Reduction

Central Taiwan, renowned as the golden longitudinal valley of the machinery industry, boasts the highest density of precision machinery industry clusters. With products exported worldwide, carbon reduction is imperative for Taiwanese companies, not only from a social responsibility perspective but also for their own development. Large companies are increasingly demanding that supply chain manufacturers align with their carbon reduction strategies, making it essential for local industries to adapt.

Services and Achievements of the ESG Sustainability Center

To address these needs, the ESG Sustainability Center at NCUT offers a range of services:

Education and Training:

Conducting workshops, seminars, and certification courses to educate company personnel on the latest carbon management practices and sustainability trends.

Technical Support:

Providing expert guidance on implementing carbon reduction technologies and practices.

Assisting with the integration of energy-efficient processes and renewable energy solutions.

Resources and Tools:

Offering access to state-of-the-art tools and resources for carbon footprint analysis and reduction planning.

Providing ongoing support and consultancy to ensure continuous improvement in sustainability efforts.

Collaboration and Partnership:

Fostering collaboration between academia, industry, and government to drive innovation and share best practices.

Establishing partnerships with local and international organizations to enhance the effectiveness of sustainability initiatives.

Impact and Future Goals



In just two years, the ESG Sustainability Center has made significant strides in assisting companies with their carbon management vision. The center's efforts have led to measurable reductions in carbon emissions and have equipped businesses with the knowledge and tools needed to continue their sustainable transformation.

Key Achievements:

Successfully assisted numerous companies in the central region in developing and implementing comprehensive carbon management plans.

Played a pivotal role in helping enterprises achieve compliance with international carbon reduction standards and certifications.

Contributed to the overall reduction of carbon emissions in the Taichung-Changhua-Nantou industrial area.

Future Goals:

Expand the reach of the ESG Sustainability Center's services to include more industries and regions across Taiwan.

Continue to enhance the center's capabilities by incorporating the latest technologies and methodologies in carbon management and sustainability.

Strengthen partnerships with global sustainability organizations to bring cutting-edge solutions to local enterprises.

The establishment of the ESG Sustainability Center at NCUT represents a critical step in supporting the sustainable transformation of enterprises in central Taiwan. By providing comprehensive education, training, technical support, and resources, the center has enabled businesses to effectively manage their carbon footprint and contribute to global sustainability goals. The center's success over the past two years underscores the importance of such initiatives and sets a strong foundation for continued progress in the years to come.



ESG Speech: The legal role and urgency of carbon rights trading and its response-cum-Innovation Technology Matchmaking Conference