Green Engineering

CTCI

Discover Reliable

Advocate for Net Zero, Lead the Way to Net Zero EPC

- The design concept for Net-Zero EPC logo is based on **“number zero (0)”** and **“circular.”** By overlapping “0” with the letters “EPC,” the logo symbolizes CTCI’s commitment to a circular economy and net zero emissions in EPC projects.
- The corporate color yellow (CTCI yellow) is used to convey CTCI’s commitment resolve.



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Support Net Zero Initiatives for Sustainability

Together with benchmark companies in ESG, CTCI launched an initiative in Taiwan to support net zero actions. We are on the road to delivering net zero EPC projects.



Initiative for Net Zero Emissions	2030	We pledge to achieve zero carbon emissions for the HQ and office premises
	2050	We pledge to achieve zero carbon emissions for the HQ, office premises, and project sites

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Group Executive Net Zero Swear Ceremony

- Held “CTCI Group Sustainable Leadership Forum and Net Zero Swear Ceremony” Solemnly declare the implementation of the sustainable net zero goal on 2022/6/9.
- CTCI aims to reach net zero by 2045, ahead of the global 2050 goal, driving faster sustainability action.



▲Chairman Yu said that with the vision of "net-zero EPC" turnkey plant construction, we will join hands with global customers and leading supply chain partners to move towards a sustainable pathway



▲Chairman Yu led the group's senior executives to swear on behalf of all colleagues to implement the net zero goal

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Give Full Play to Core Business and Become A Guardian of Sustainable Earth



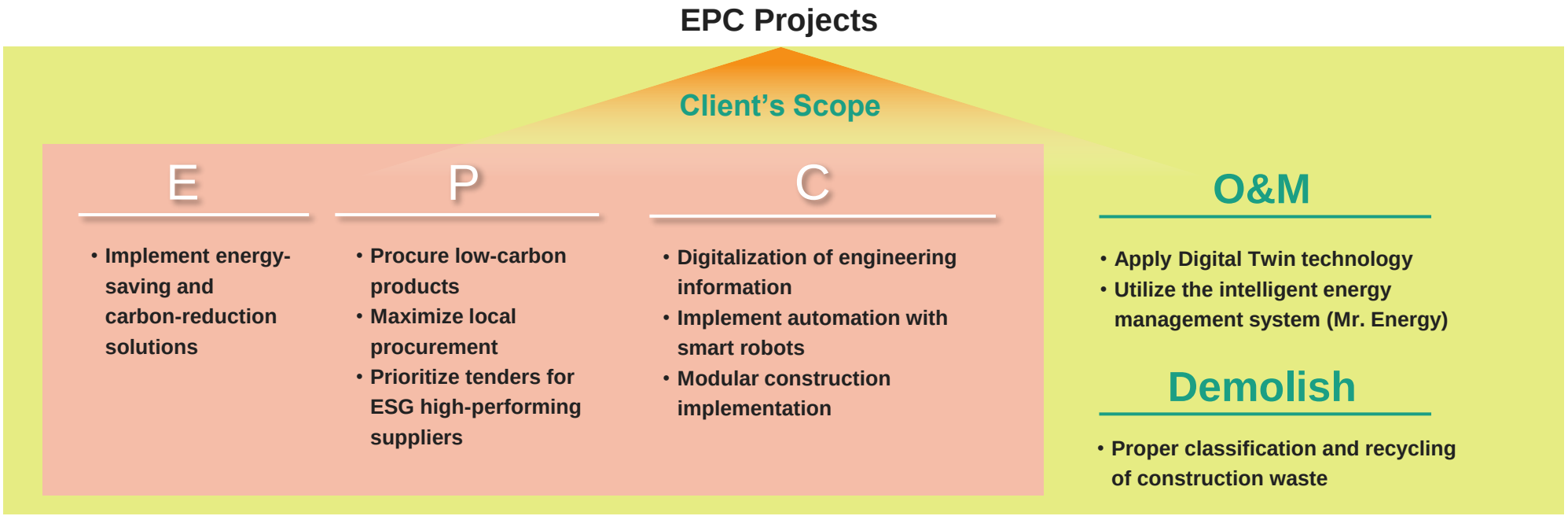
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Green Technologies

Net Zero EPC Value Services

CTCI's EPC service : E (engineering), P (procurement) and C (construction)

With three core businesses, namely "green engineering, smart plants and circular economy", by integrating intelligent engineering, procurement, and construction (iEPC) technologies, CTCI is promoting sustainability in full swing through green technologies, green contracting and green investment. To expand further the sustainable Influence, CTCI is forming strategic alliances with the value chain, by promoting the low-carbon supply chain, to and assisting owners to reduce carbon emissions in the construction, operation and demolition stages.



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Green Technologies

What we achieved between 2023 and 2025

1.98 billion kWh

in cumulative power savings, equivalent to power consumption of 501,110 households per year

286,080 TJ

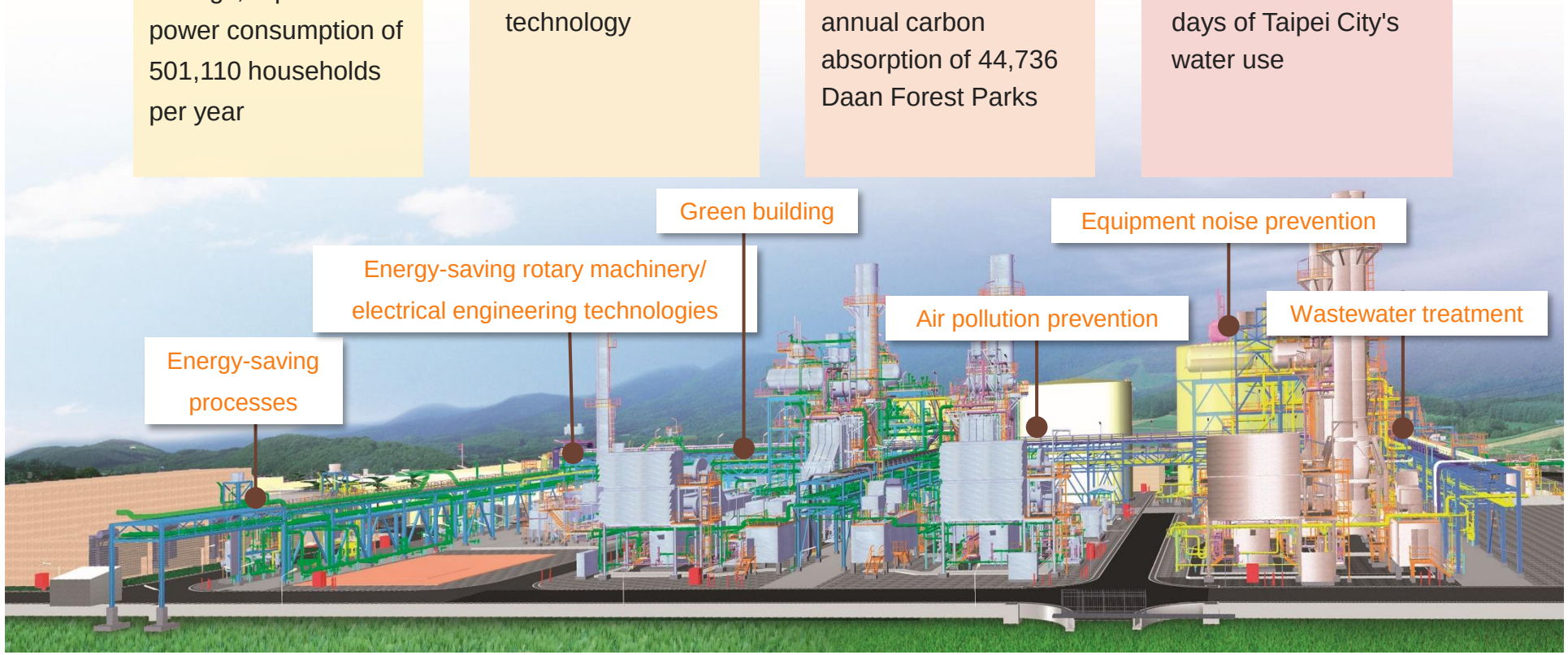
Cumulative energy savings of green technology

17.4 million tons

in CO2e reduction, equivalent to the annual carbon absorption of 44,736 Daan Forest Parks

202.91 million tons

in water savings, equivalent to 242 days of Taipei City's water use



- **Calculation based on the plant life cycle**
- **All data are verified by SGS**

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Green Technologies conserve energy and reduce carbon emission

Covering five major energy-saving categories: :

1. **High-efficiency energy-saving solutions:** Utilizing high-efficiency equipment and variable frequency control technologies to improve the efficiency of electricity use.
2. **Effective water-saving solutions:** Applying water recycling and reuse processes to improve the efficiency of water resource recovery and utilization, achieving water conservation goals.
3. **Heat and cold energy recovery solutions:** Through optimized process technologies, recovering and reusing heat and cold energy to reduce energy waste.
4. **Material reduction solutions:** Applying new construction methods and advanced technologies to reduce construction materials and manpower, save operating fuel and consumables, and reduce environmental impact.
5. **Low-carbon material application solutions:** Using the latest low-carbon materials on the market to replace traditional materials to achieve carbon reduction benefits.

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Green Contracting

E

Green Contracting: Green, Low-Carbon & Eco-Friendly Projects Grow Each Year

2015

Green, Low-Carbon & Eco-Friendly Projects: 23%

Backlog: Grows by 740%

2025

Green, Low-Carbon & Eco-Friendly Projects: 82%



MPC Mailiao LNG Receiving Terminal Tank Project

CPC Intercontinental LNG Regas Project



TPC 1300MW Ta Lin CCPP Project / TPC 3300MW Tung Hsiao CCPP Project, Phase II



Taichung MCT Blue Line System E&M Depot and Main Station Project

Kaohsiung MRT Yellow Line Lot YD01 Detail Design Work



Multiple Solar Power Plants



Construction, Operation, and Maintenance of the Hsinchu Desalination Plant



Design Project for Saudi Crude-to-Chemicals (LTC) Process



EPC project for carbon storage of Tiehchenshan



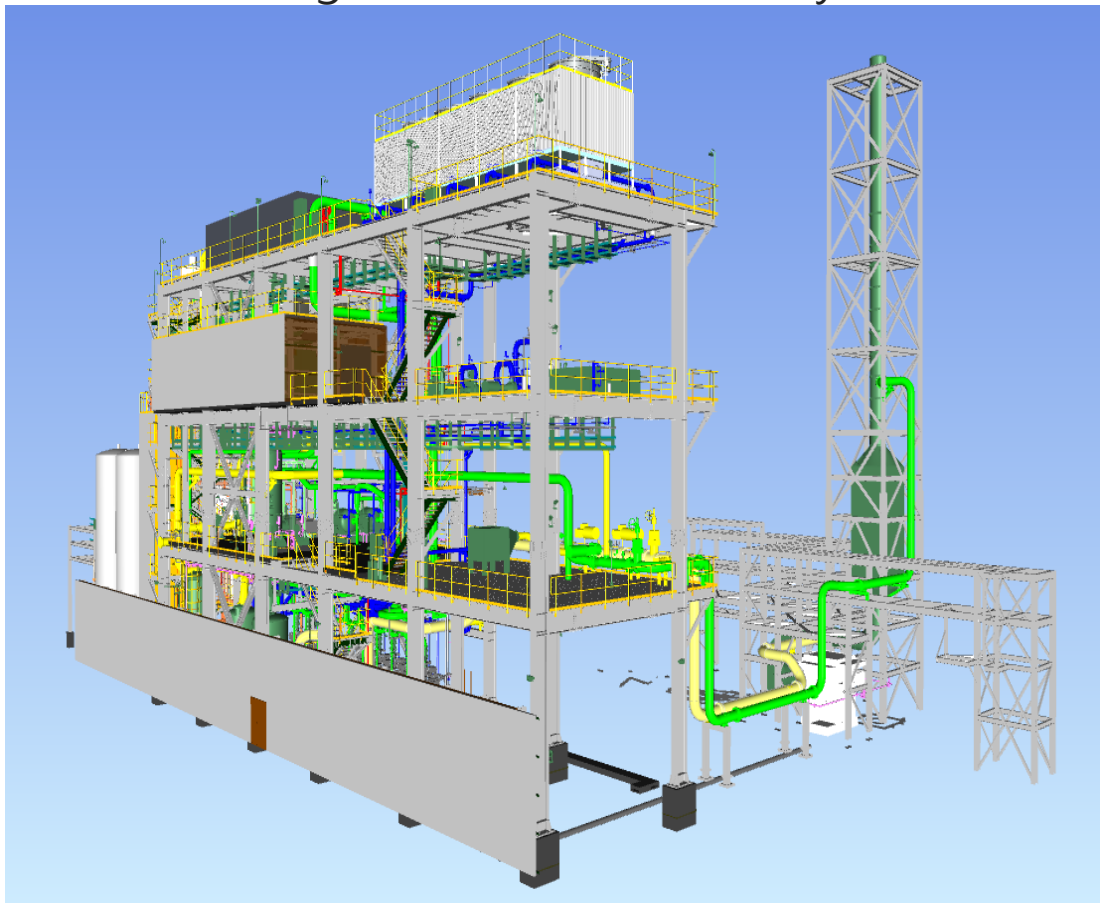
Detail Design of Wind Turbine Foundation for Formosa 4 Offshore Wind Farm

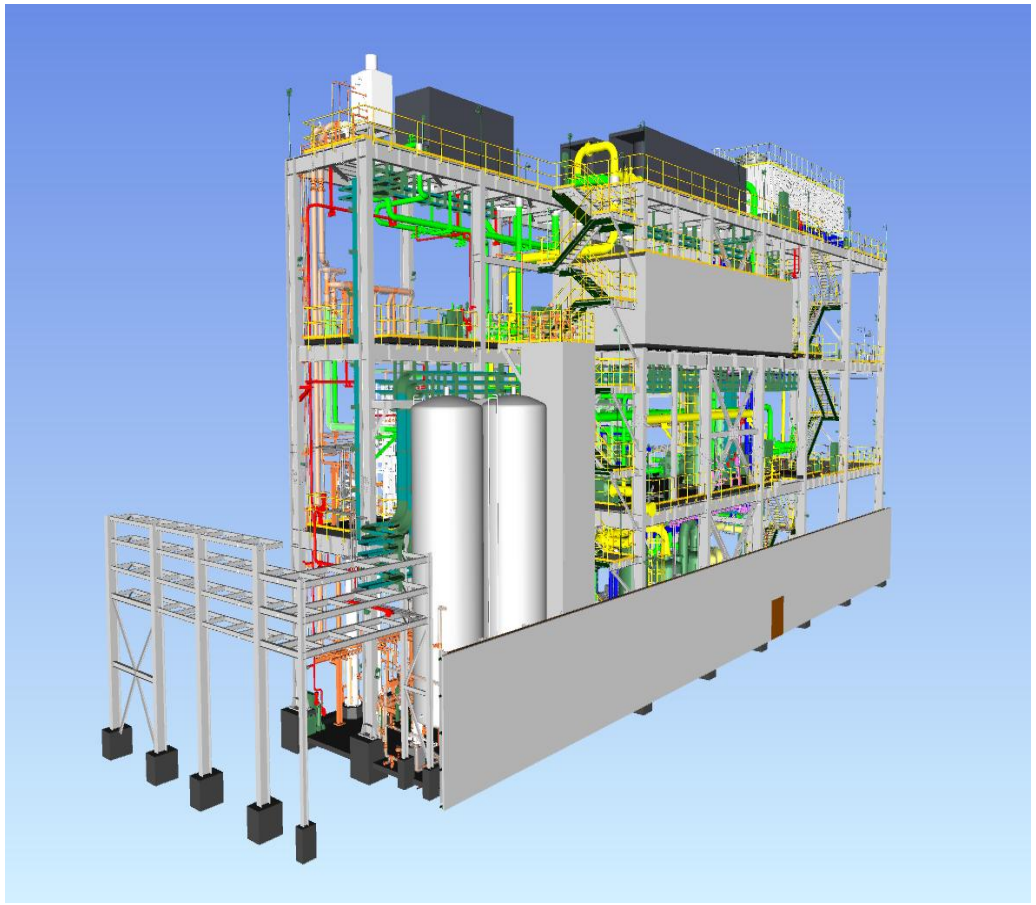
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TSMC MTR Carbon Capture Project (Taiwan)

- Marking TSMC’ s first definitive step into CCUS, this landmark facility will go online at the end of the year, routing captured carbon directly to the CPC Tieh–Chen Mountain site for injection. CTCI stands as a pivotal enabler, adding profound value to TSMC’ s roadmap for sustainable manufacturing and carbon neutrality."



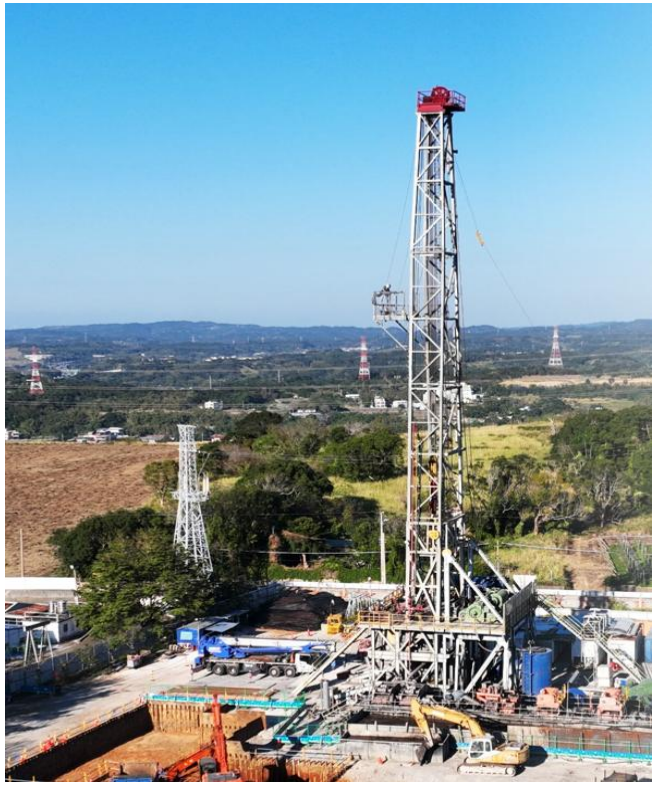


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Taiwan's First CCS Project: CPC Miaoli CCS Pilot Plant Project

- As Taiwan's pioneering carbon storage facility, this flagship project secures the final mile of the CCUS value chain by safely storing carbon captured from industry leaders like TSMC and Chang Chun Group. The injection and monitoring methodologies developed with CTCI’ s proprietary technologies will serve as a scalable blueprint, unlocking future expansions to the million-ton-scale Taobin site and the massive Taixi Basin, which boasts a geological storage potential of over 10 billion metric tons.





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CPC Intercontinental LNG Receiving Terminal: Storage Tank & Re-Gas Projects (Taiwan)

- Following CPC’ s LNG storage tank project, CTCI secured the terminal's regasification project. These dual wins solidify CTCI as the undisputed leader in Taiwan’ s LNG sector. Scheduled for 2030, the project features four 180,000-kl tanks—Taiwan's largest—delivering 1,600 tons per hour. This national-grade infrastructure will secure energy stability in southern Taiwan and drive the nation’ s net-zero transition.



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MPC Mai Liao LNG Storage Tank Project (Taiwan)

- CTCI has secured the EPC contract for the 2029 gas-fired power purchase agreement between Taiwan Power Company and Mai Liao Power Corp. This achievement is a testament to CTCI's exceptional capabilities in LNG receiving terminal engineering, extensive industry experience, and robust local resource integration. As Taiwan’ s first privately-owned LNG receiving terminal, this landmark project underpins the Formosa Plastics Group's "coal-to-gas" transition strategy, driving progress toward its 2030 greenhouse gas reduction targets via clean energy adoption.





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CTCI Green Engineering Solution - Net-zero





CCUS site ground facilities project, carbon capture pilot plant project









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CTCI Green Engineering Solution - Waste





Chiayi City Green Energy and Sustainable Recycling Center









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CTCI Green Engineering Solution - Water





Hsinchu Seawater Desalination Plant Construction, Operation and Maintenance Project









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Green Investments

Green Investments (Through BOO & BOT)

Achievements in 2025

1.651 billion kWh	121.11 million kWh	2.90 million tons	111,246 million liters	14,881 tons
in cumulative power generation from EfW plants, able to meet annual power needs of 450,000 households in Taiwan	in cumulative power generation from solar power plants, able to meet annual power needs of 33,000 households in Taiwan	of waste treated	of sewage treated	of waste solvent (IPA, EPA) treated



EfW Centers



Solar Power Plants



Waste treatment center



Sewage treatment and reclaimed water treatment plant

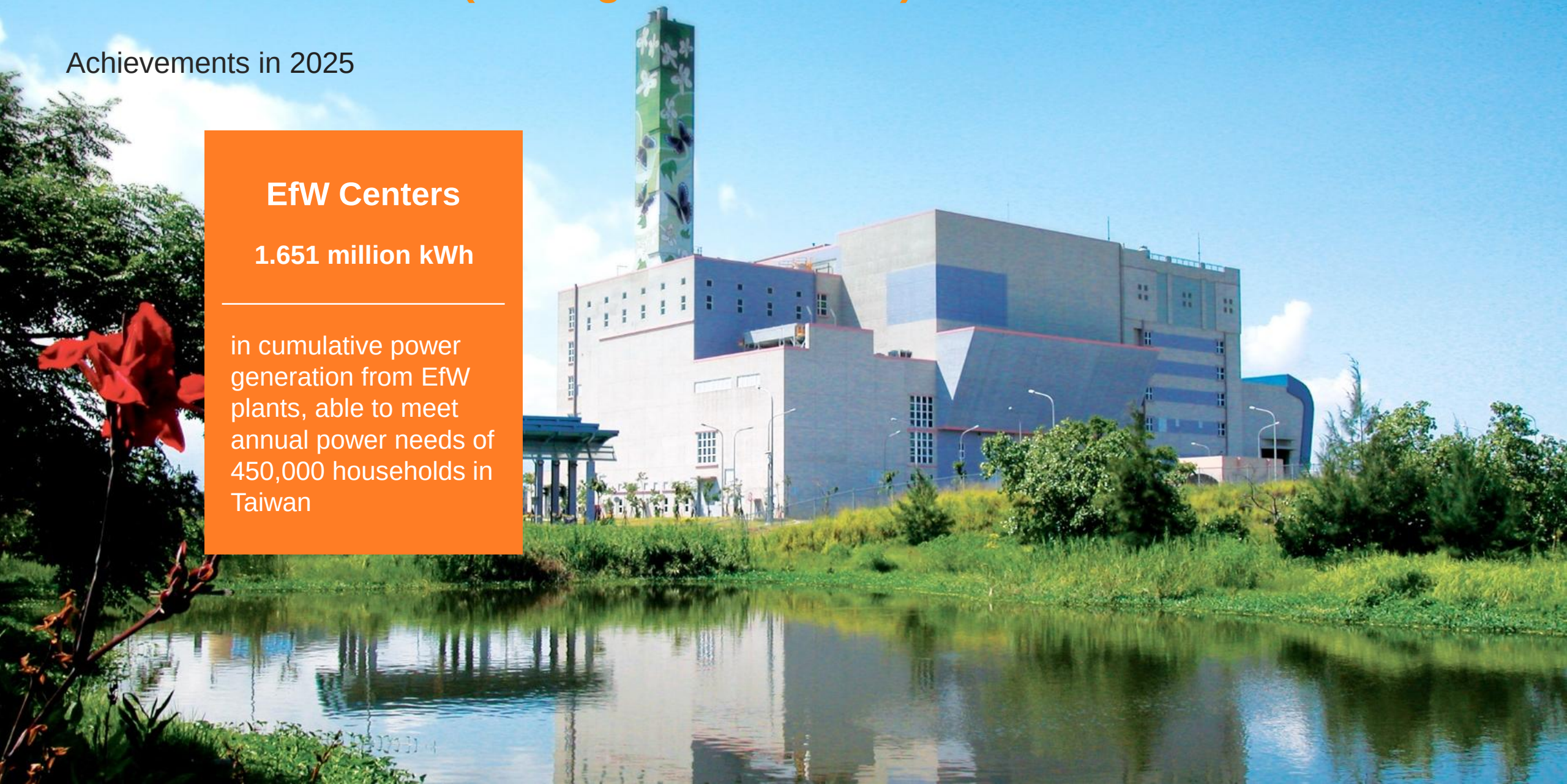


Waste solvent recycling plant

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Green Investments (Through BOO & BOT)

Achievements in 2025



EfW Centers

1.651 million kWh

in cumulative power generation from EfW plants, able to meet annual power needs of 450,000 households in Taiwan

Green Investments (Through BOO & BOT)

Achievements in 2025



Solar Power Plants

121.1 million kWh

in cumulative power generation from solar power plants, able to meet annual power needs of 33,000 households in Taiwan

Green Investments (Through BOO & BOT)

Achievements in 2025



Waste treatment center

2.90 million tons

of waste treated

Green Investments (Through BOO & BOT)

Achievements in 2025



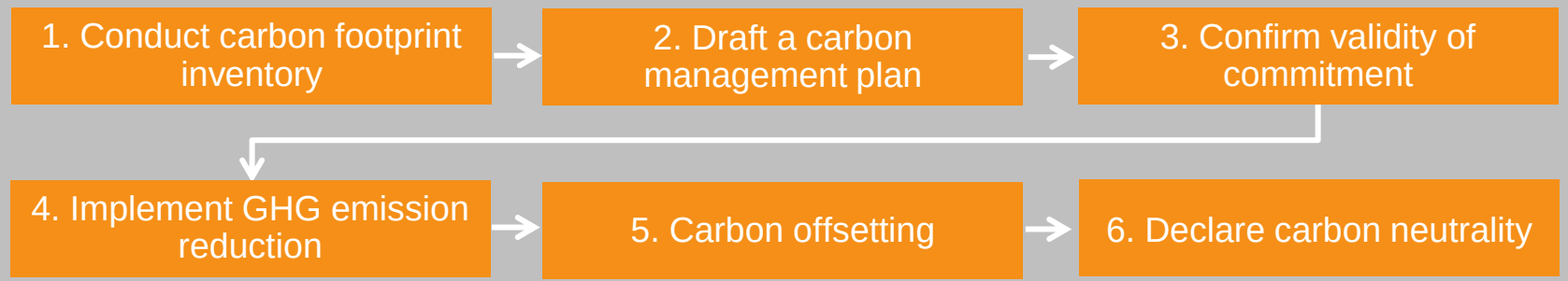
Sewage treatment and reclaimed water treatment plant

111,246 million liters

of sewage treated

First Company in Taiwan to Obtain Dual Certifications on International Circular Economy & Carbon Neutrality

- Our subsidiary ECOVE Solvent Recycling Corp. (ECOVE SRC) provides services in waste solvents purification and recycling
- ECOVE SRC passed BS 8001 verification in 2020 for implementing circular economy principles
- ECOVE SRC passed PAS 2060 verification in 2021 for achieving carbon neutrality
- ECOVE SRC won the Bronze Medal of the 4th Corporate Environmental Protection in 2022
- ECOVE SRC won the Gold Award at the 4th Taiwan Sustainability Action Awards in 2024
- ECOVE SRC won the Resource Recycling Green Product Certificate in 2025





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