

SUSTAINABILITY AND DIGITALIZATION

The energy of craftsmanship

In the era of digitalization: PTTX success story

Leonardo Maschietto 7 June 2023







What are we going to talk about?













Established in 2004, PTTX is the best in class, world transformer core full process solution provider.



Main drafter of the Chinese national standard GB/T 32288-2015 and GB/T32288-2020 for transformer cores.



Low-Carbon Industry Research Institute

Around "Basic materials, Product technology, Intelligent manufacturing, Digital technology, Magnetic application": five areas of in-depth research

PTTX is committed to low-carbon technology, digitalization and green lifestyle enabling manufacturing







World transformer core full process solution provider



Mother Coils



Slit Coils



Mother Coils



Cut Lamination



Fully Assembled Cores

PTTX provides you with high quality products and services
From raw material to core application







370+

19

300K⁺

260+

Professionals in the R&D team

Years of focusing on transformer cores manufacturing

300,000 Tons of annual production and processing capacity

Global clients and partners





Our commitment to sustainability



Green Factory of China

PTTX sustainable processes are reflected in the entire life of steel and manufactured products for transformers industry.

PTTX is devoted to environment protection



Production waste automatic disposal



Waste gas treatment



Industrial water recycling





Support of the digitization process



PTTX HQ



Over 20,000 square meters Smart "black light" factory

Xinpu Silicon Steel Mill



The mill output at full capacity will be 300,000 tons of GOES

Xingzhi Smart Factory Service



Smart factory planning and design, engineering project landing services

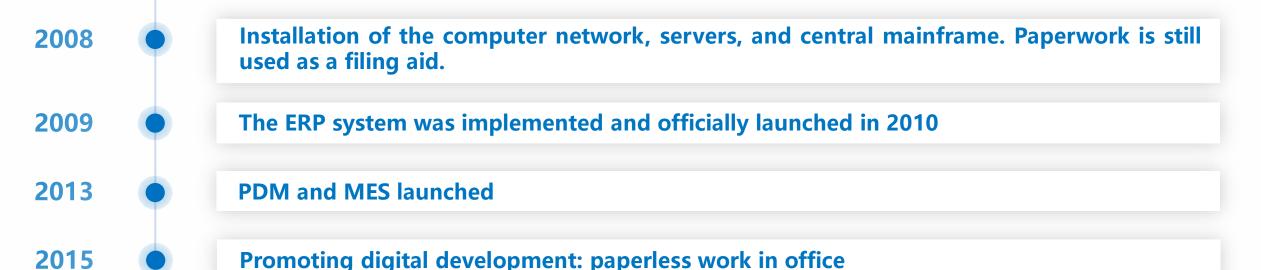




2016

Process of digitalization





4G: interconnection of the mainframe to portable devices (PDA), laptop and cellphone





Operational process of digitalization

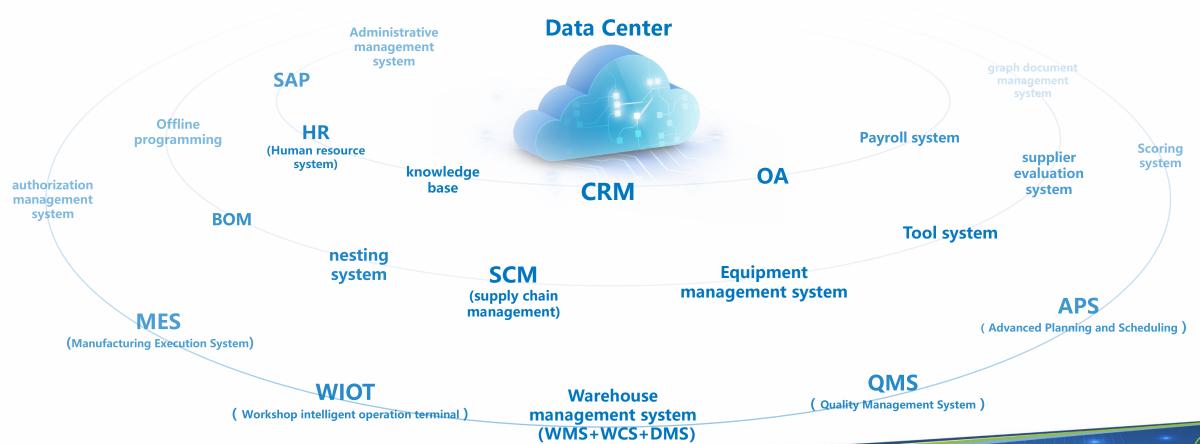






Full link of digitalization









Result of digitalization





• Greatly improving work efficiency by collective management

• Significantly improves sustainability to optimize resource

• Implementation of a paperless office to achieve low carbon





Application in transformer efficiency chain



- In 2020, China set the goal of Carbon Peak by 2030.
- The goal of carbon neutral by 2060.

Adheres to Carbon Neutrality policy
 Assumes Carbon responsibility.

 On 1 June 2021, China officially implemented the standard 《GB 20052-2020, Minimum values and grade of energy efficiency for power transformers》

• The new standard saved 87 billion Kwh of electricity per year, equivalent to 86.7 million tons of CO₂ emissions.

PTTX follows the policy of sustainable development
Continuously innovate and provide higher grade and lower
thickness GOES for the transformer market



Sustainable reform and innovation on GOES









Transformers made with low loss and ultra-low loss GOES help protect our environment.



PTTX has its own laboratory and engineers conducting continuous research on materials, aiming to achieve sustainable growth.





Certifications and Awards





National Awards

- Green Factory
- Excellent scene for smart manufacturing
- Intelligent manufacturing capability (level-3)
- Little Giant Enterprise

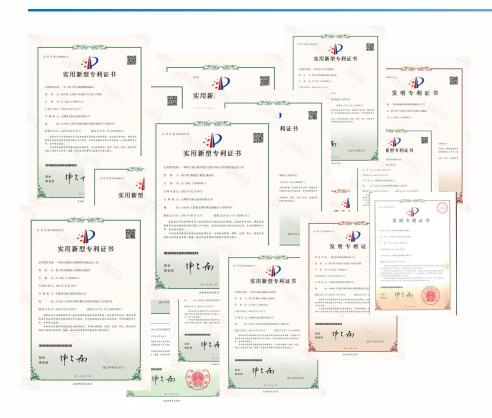
More than 70 patents





Certifications and Awards





More than 70 patents

Provincial & City Awards

- Internet Model Enterprises
- Smart manufacturing demonstration factory
- The enterprise credit rating is AAA
- Network information security demonstration enterprise

- Four-star cloud enterprises
- In-depth integration of the two innovative
- Enterprise technology center
- Civilized unit/enterprise







THANK YOU

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