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/// CHAOYANG STORY

Green Forward





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Chaoyang Europe



Chaoyang Brasil





We are in the hustle and bustle of the city all day long,
but also wonder to explore the serenity in the depths
nature

We travel through the daily dust and exhaust,
but also want to enjoy the fresh air around us



**PASSION FORWARD
GREEN FORWARD**

**E-LINER
PLUS^{AT}**

27.5×2.8

**E-LINER
PLUS^{MT}**

27.5×2.8

**E-LINER
URBAN**

28×2.0

**E-LINER
CITY**

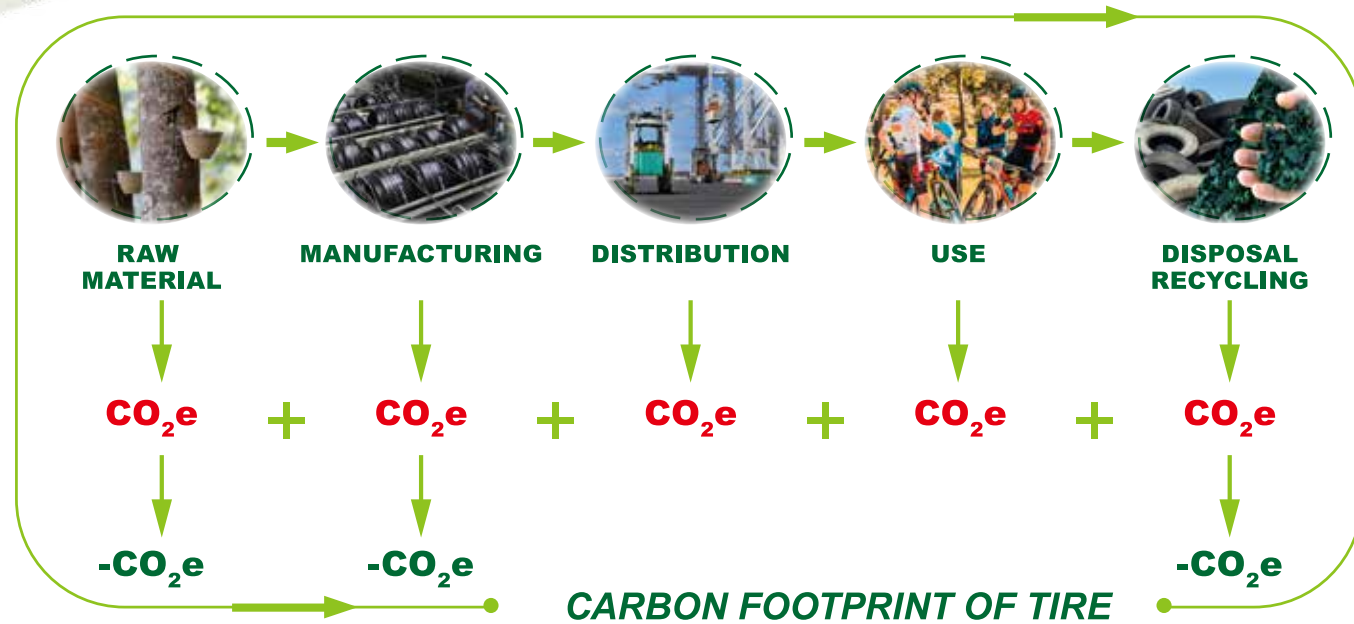
28×2.0

**E-LINER
TOUR**

28×2.0

**E-LINER
CARGO**

26×2.35



In terms of reducing carbon footprint, company's investment in environmental protection projects accounts for as much as **25%**, and invests about **100-200 million yuan** per year as environmental protection technology transformation funds.

We carefully select raw materials for our tires, and actively evaluate and use raw materials with low carbon footprints on the premise of ensuring product quality.

In the recycling of resources, we realize the conversion of waste energy such as tail gas and waste into heat and electricity in the production system for secondary utilization, minimize the output rate of solid waste, and create a green zero-pollution factory.

At the same time, we have the first automatic sorting system for waste tires in China, which sorts and sorts waste tires through professional and scientific methods, so that waste tire resources can be fully and efficiently collected. Through effective recycling, the reduction, reuse and recycling of waste tires can be realized.

These efforts have brought significant effects on energy conservation, carbon footprint reduction, and reduction of the greenhouse effect.



RECYCLING AND RETREADING



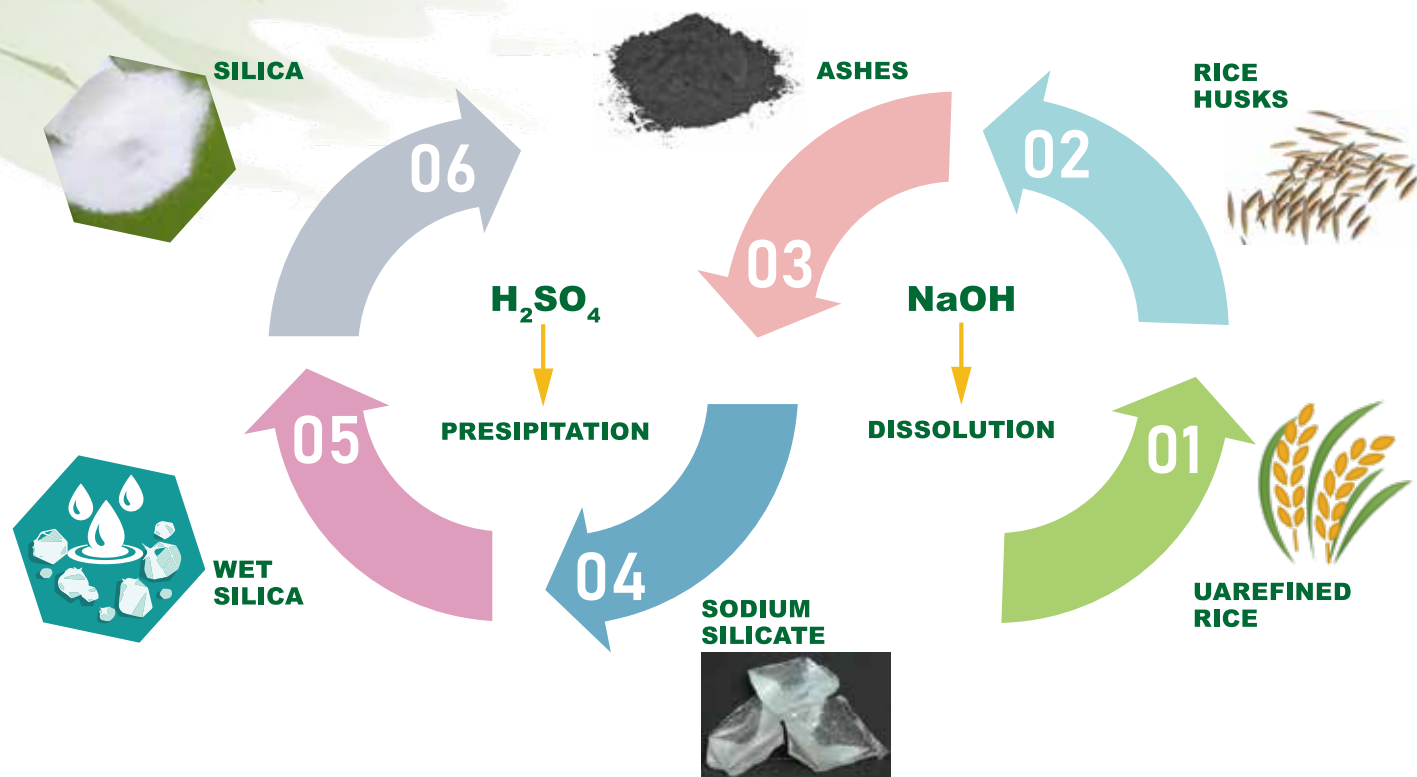
Recycling **100,000 tons** of waste tires per year
reducing carbon dioxide emissions by
120,000 tons per year

Planting **6.56 million trees**
per year



Zhongce has set up a subsidiary, Zhongce Recycling Technology Company, which is responsible for the recycling, refurbishment and repair of waste tires, and the production of clean reclaimed rubber and liquid reclaimed rubber.





In the traditional process, silica is made with a chemical process where crystalline silica, typically sand, is dissolved in a solution of water and caustic soda (NaOH). Then sulphuric acid is added to obtain silica precipitate. The reaction of crystalline silica with caustic soda requires a huge amount of thermal energy. But when rice husks are burned, the resulting ash is composed of non-crystalline silica that has a maximum residual carbon content of 8%. Compared with crystalline silica, this silica requires much less energy in the initial reaction.

Since the production process is thermally self-sufficient, the production of silica from rice husks not only allows energy recovery but also a significant reduction in CO_2 emissions, precisely because all the necessary thermal energy is derived from the combustion of renewable biomass.

Traditional silica from mineral sand with product carbon footprint (PCF) $+1.73\text{kgCO}_2\text{e}$, new silica made from rice husk with PCF $-0.82\text{kgCO}_2\text{e}$, 147% less than traditional silica (Data from Yihai Kerry)



A new fiber material bio-based polyamide PA56 used for tires. The new environmental tire uses PA56 as the casing for skeleton structure, aiming at reducing the use of chemical raw materials. Bio-based PA56 can reduce the consumption of non-renewable resources by 50% at least.

◆ **Carbon reduction** : Reducing 1.86 kg CO_2e for each bike tire during the product life circle

◆ **Renewable resources** : The bio-based polyamide PA56 is made from recyclable plants, like corn, cane and other green fiber.

◆ **Soft**: Lower glass transition temperature ($T_g: 45\sim 55^\circ\text{C}$), makes tires soft both in cold and hot weather. Tire uses PA56 ensures a comfortable experience while riding

◆ **Lighter**: The density of PA56 is significantly lower than that of polyester fiber; it reduces 15%~18% weight for casing use during the tire production.