

## Quick Facts

- China is ranked among the world's worst nations with regard to environmental pollution and degradation.
- China will soon pass the U.S as the world's greatest greenhouse gas producer.
- The desert lands in China are increasing at a rate of 670,000 hectares per year.
- The average tree cleans 82 kilograms of carbon dioxide over its 45 year growth period.
- Two trees can supply a person's oxygen needs by producing a total of 235kg of oxygen each year.



Roots & Shoots volunteers plant trees in Inner Mongolia

The Jane Goodall Institute-Shanghai

## How You Can Contribute

You will be making a difference in the most direct way possible: by planting trees.

- **Calculate your carbon footprint**

Sample Trip Calculation: Shanghai to Beijing (round trip)

i)  $2140\text{km} \times 0.1304 \text{ kg/CO}_2/\text{passenger km} = 279.06 \text{ kg CO}_2$

ii)  $279.06 \text{ kg CO}_2 \div 82\text{kg Co}_2/\text{tree} = 3 \text{ trees}$

iii)  $3 \text{ trees} \times 25 \text{ RMB} = 75 \text{ RMB}$

- **Reduce your carbon footprint voluntarily by supporting Shanghai Roots & Shoots Tree Planting Program**



## Buy trees today!

Please visit: [www.jgi-shanghai.org](http://www.jgi-shanghai.org)

### The Jane Goodall Institute-Shanghai Roots & Shoots

Ocean Towers, 16<sup>th</sup> Floor Suite 1613

550 Yanan East Road

Shanghai, China 200001

Phone: +86 (21) 6352-3580

Fax: +86 (21) 5306-0008

Email: [roots&shoots@zuelligpharma.com.cn](mailto:roots&shoots@zuelligpharma.com.cn)

... saving the world-one tree at a time!

## The Jane Goodall Institute-Shanghai Roots & Shoots

## Carbon Footprint Tree Planting Program

Taking action in the fight against global warming



Help Shanghai Roots & Shoots plant  
**one million trees**  
in the Inner Mongolian desert.  
Every one can play their part to stop global  
warming!

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# Climate Change and the Roots & Shoots Program

Every person living on the earth has an effect on the planet. Although developed nations are currently the biggest contributors to greenhouse gases, China, with its fast-paced development and large population needs to heed the warnings of global warming and world pollution and act accordingly.

In recent decades, the greenhouse effect and unscientific exploitation have aggravated drought, desertification, and soil erosion especially in China's north.

Compounding this problem, over-grazing and over-farming in Inner Mongolia has caused serious desertification of the land, resulting in sand storms each spring in Northern China that reach as far as Beijing and even Japan.

In light of this desperate environmental situation Roots & Shoots has launched the Carbon Footprint/ Tree Planting Program. Our goal at Roots & Shoots is to plant one million trees in the desertified areas of Inner Mongolia. These trees are planted with the local villagers and their children, allowing everyone to play a role and become responsible. Trees purchased through Shanghai Roots & Shoots will be planted during our Roots & Shoots sponsored planting trips which are scheduled to coincide with the best planting season in the year.

By planting trees in Inner Mongolia we will not only be helping to improve the local environment but will also be taking steps to win the fight against global warming.

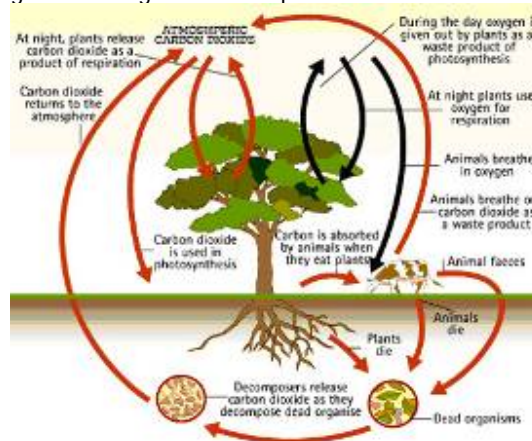


## WHAT IS A CARBON FOOTPRINT?

A Carbon footprint is a way to quantify the amount of carbon dioxide (CO<sub>2</sub>) emitted into the atmosphere as a result of peoples' activities. Some of these activities include: lighting with electricity, heating your home, transport, travel, and purchasing/(the production of) clothes, food and electronics.

## WHY SHOULD I CARE ABOUT MY CARBON FOOTPRINT?

Every living and non-living being takes part in the carbon dioxide life cycle. Humans have been playing a larger role in the cycle as the development and use of fossil fuels has increased. The amount of CO<sub>2</sub> emitted in the last 20 years has increased exponentially. The 25% increase in carbon dioxide in the atmosphere in the last century is one of the main contributors to global warming. As more fossil fuels are burned, the carbon dioxide creates a thicker blanket of greenhouse gases that trap the sun's heat on earth.



# Energy Saving Tips

## Transportation

- Walk and cycle more
- Use public transportation or carpool instead of driving a car or taking a taxi.
- Consider fuel economy when buying or renting a car.

## At Home

- Unplug appliances that are not being used
- Unplug battery chargers when the batteries are fully charged or the chargers are not in use.
- Change to fluorescent light bulbs
- Use rechargeable batteries
- Close doors and windows while using air conditioning or heating, to keep the heat from escaping.
- Use cold water while washing dishes and clothes.
- Turn off lights in rooms that are not in use.
- Reuse items in the home to save on energy. Plastic bags, glass jars, plastic bottles, and old clothes can all be reused.

## At Work

- Bring reusable kitchenware items to work (i.e. chopsticks, lunchbox, utensils, mug).
- Turn off the computer while it's not going to be in use for over two hours.

## Food

- Buy locally grown food
- Bring reusable chopsticks while traveling.
- Eat organic food.
- Use a fabric shopping bag to carry your groceries home.
- Opt for products with minimal packaging.