



**WENYUHE PARK——
CARBON NEUTRAL THEME PARK IN BEIJING**

碳中和主题公园 ——北京温榆河公园·未来智谷

Project Overview

北京温榆河公园 Beijing Wenyuhe Park

The construction of the Changping section of Wenyuhe Park is closely centered on the positioning of the "Energy Valley" in the eastern area of Future Science City and the "30·60 Carbon Strategy" proposed by General Secretary Xi Jinping. It leverages the advantages of technological innovation and industrial agglomeration to empower regional development, takes the development of a smart park and the application of advanced energy technologies as key drivers, and highlights technological features to build Beijing's first "Carbon Neutrality Theme Park"



The planned area of the Changping section of Wenyuhe Park is 4.80 square kilometers. This includes a 3.45-square-kilometer planning and research area for the park project (with an implementation area of 1.55 square kilometers), and 1.35 square kilometers of other land uses such as water areas, municipal facilities, and roads.

Changping Phase I:

The planning and research area covers 0.558 square kilometers, with an implementation area of 0.48 square kilometers (48.75 hectares). The remaining area is mainly designated for farmland restoration.

Changping Phase II:

The planning and research area covers 2.892 square kilometers, with an implementation area of 1.06 square kilometers (106.43 hectares). The remaining area is mainly designated as an ecological wilderness zone.



- Establish a carbon neutrality science popularization base
- Create a carbon credit park- visiting system
- Build a low-carbon and environmentally friendly park
- Construct application scenarios for advanced energy technologies.

How to Create a "Carbon Neutrality" Science Education Base

北京温榆河公园 Beijing Wenyuhe Park

Strategy 1:
**Carbon Neutrality
Science System
Building**



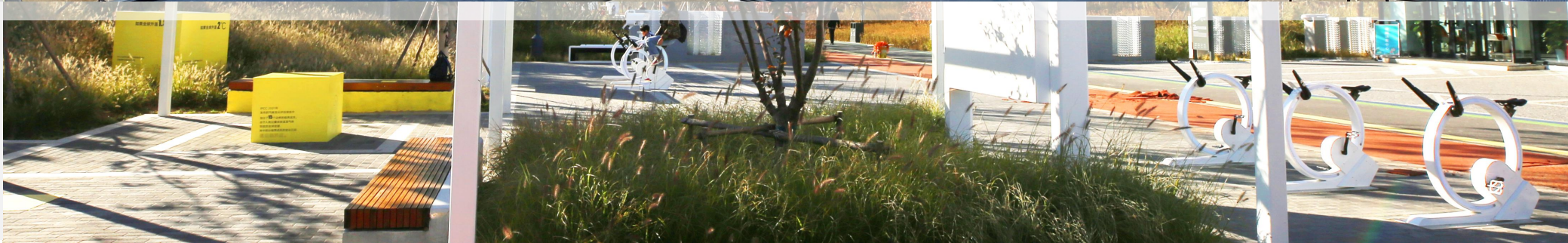
Strategy 2:
**Carbon Neutrality
Theme
Interpretation**



Strategy 3:
**Low-Carbon Park
Development**



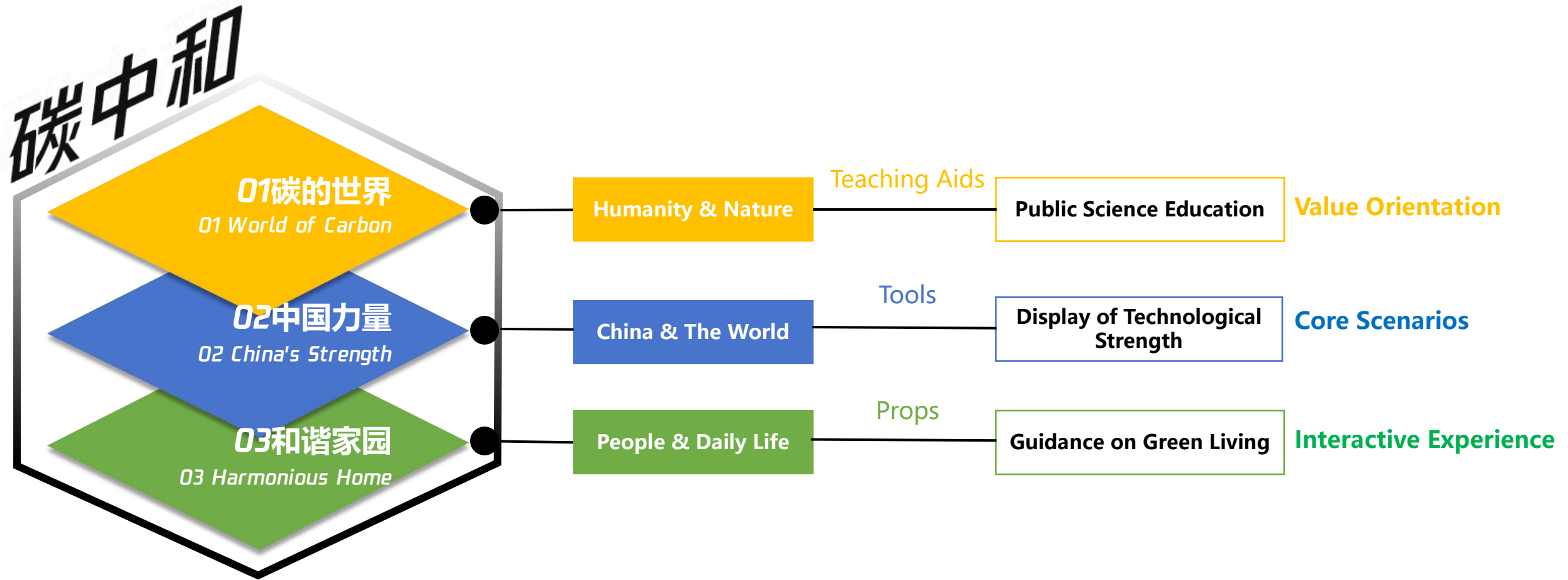
Strategy 4:
**Smart Tour &
Carbon Point
System**



Strategy 1: Carbon Neutrality Science System Building

北京温榆河公园 Beijing Wenyuhe Park

Breaking through the limitations of traditional park landscape displays, we create a new path for 'museum-ized' environmental design. Abstract carbon neutrality knowledge systems are transformed into perceptible spatial narratives, with the visitor flow connected through a three-level narrative structure: "World of Carbon — China's Strength — Harmonious Home."



Strategy 1: Carbon Neutrality Science System Building

北京温榆河公园 Beijing Wenyuhe Park

The park's scientific planning team organized nine leading domestic research institutions—including the China Meteorological Administration, the Chinese Academy of Sciences, Tsinghua University, Beijing Normal University, and Beijing Jiaotong University—to compile the science popularization knowledge system. Working from four core dimensions—"What," "Why," "How," and "How it relates to me"—the team developed over 200 knowledge points across three main areas: "Basic Carbon Knowledge and Climate Change," "China's Contributions to Addressing Global Climate Change," and "Carbon Neutrality Pathways and Visions." This comprehensive effort formed a multi-level knowledge system known as "100 Questions About Carbon."

Basic Carbon Knowledge and Climate Change

Basics of Carbon Neutrality

- Carbon Peaking & Carbon Neutrality: Meanings & Links
- Key Terms in Carbon Neutrality
- The Mystery of Carbon

The Relationship Between Climate Change and Carbon

- What is Climate Change?
- How Do We Know the Climate Is Changing?
- Is Climate Change Beneficial or Harmful?
- What Causes Climate Change?
- How Has the Climate Changed in the Past, and What Will It Be Like in the Future?
- How Should We Address Climate Change?
- Identified Climate Change Milestones
- The Relationship Between Climate Change and Human Carbon Emissions

China's Contributions to Addressing Global Climate Change

Comprehensive Governance

- History and Current Status of Carbon Emissions
- Global Efforts to Address Climate Change
- The Necessity of International Cooperation
- China's Role in Global Governance
- China's Actions and Achievements
- Contributions of Chinese Science and Technology

Tech for Carbon Reduction

- China's Tech Achievements
- Beijing's Tech Achievements
- Energy Valley Tech Achievements

Carbon Neutrality Pathways and Visions

The Path to Carbon Peaking and Carbon Neutrality

- The Path to Carbon Peaking
- Understanding Carbon Peaking
- The Path to Carbon Neutrality

Harmony Between Humans and Nature

- Climate, Environment & Life (Children's Zone)
- Land Use & Carbon Neutrality
- Water Resources & Carbon Neutrality
- Sports, Health & Carbon Neutrality
- Industry & Carbon Neutrality
- Agriculture & Carbon Neutrality

Strategy 2: Carbon Neutrality Theme Interpretation

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Theme Interpretation:

An innovative theme interpretation system has been developed, where the core concepts of "Carbon," "Neutrality," and "Harmony" are respectively represented by the colors yellow/blue/green, the symbols "? /! /.", and the forms square/hexagon/circle, forming a unified and systematic design language. By transforming abstract textual concepts into spatial imagery through color, form, and symbols, the museum-ized environmental design concept is realized, creating a vivid and engaging outdoor museum.

Theme

Basic Carbon Knowledge and
Climate Change

China's Contributions to Addressing
Global Climate Change

Carbon Neutrality Pathways
and Visions

Color

Yellow

+

Blue

=

Green

Symbol

?

!

.

Form



Strategy 2: Carbon Neutrality Theme Interpretation

北京温榆河公园 Beijing Wenyuhe Park

气候变化的喜讯

- 全球季风 (Global Monsoon) - 全球季风变化导致的干湿变化
- 北方森林 (Boreal Forest) - 北半球森林枯死
- 北极夏季海冰 (Arctic Summer Sea Ice) - 面积减少
- 南极海冰 (Antarctic Sea Ice) - 消融
- 南半球海冰 (West Antarctic Ice Sheet) - 消融
- 格陵兰冰盖 (Greenland Ice Sheet) - 消融



CARBON SINK

碳汇有理由

碳汇是指通过植树造林、森林经营、农田减排、海洋碳汇等方式，吸收大气中的二氧化碳，抵消人类生产生活中产生的二氧化碳排放，实现二氧化碳“净零排放”的过程。

碳汇是减缓全球变暖的重要手段，也是实现碳达峰、碳中和目标的重要途径。

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碳排放与全球气候变化

碳排放与全球气候变化的关系，通过图表和文字进行科普。

属于生态文明思想的“六个坚持”具体主张

全球应对气候变化的中国方案

碳达峰、碳中和

低碳生活 LOW CARBON LIFE

通过卡通形象和图表展示低碳生活的理念。

如果全球升温 15°C 百年一次

如果全球升温 2°C 十年一次

IPCC《全球升温1.5°C特别报告》估计，北半球夏季无海冰的可能性。

降低碳强度

与2005年相比，2020年中国碳强度下降约48.8%。

基本扭转碳排放快速增长局面。

多少是低碳能源提供的?

2020年 全球能源消费总量 136.3亿吨标准煤

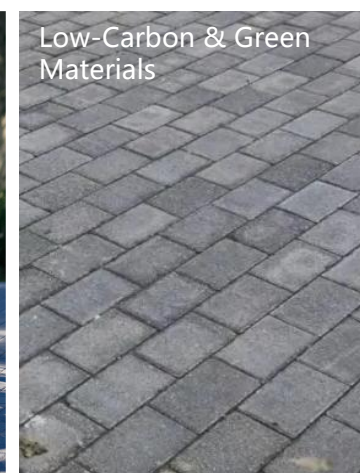
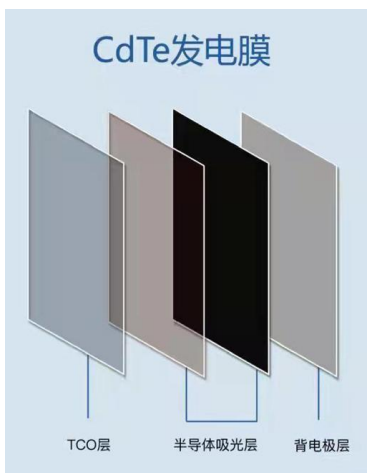
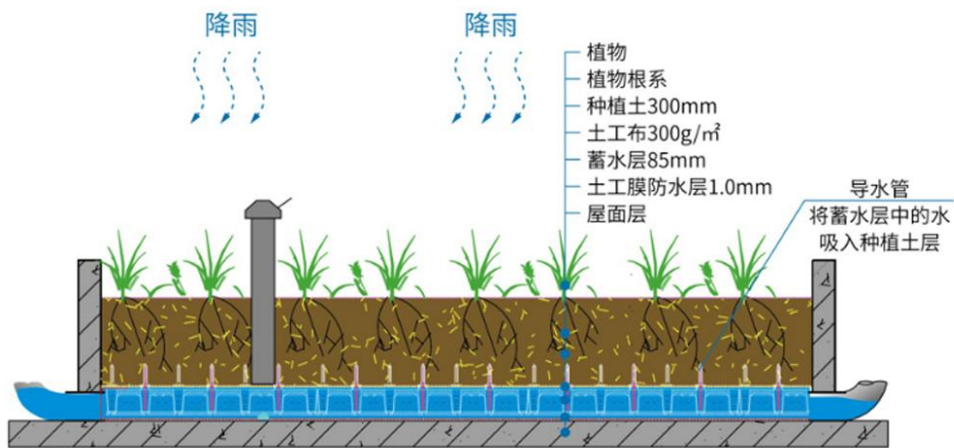
低碳能源占比 19.5%

Strategy 3: Low-Carbon Park Development

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Application of Advanced Energy Technologies

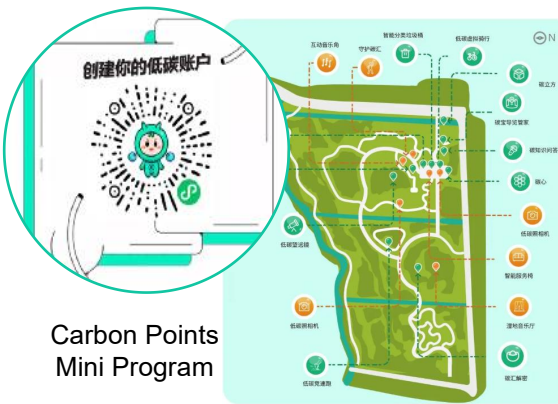
The "Low-Carbon Station" serves as the park's primary building, housing visitor service facilities, a carbon neutrality science popularization center, and administrative offices. It integrates strong educational and landscape functions, making it a key hub for both science communication and scenic experience.



Strategy 4: Smart Tour & Carbon Point System

北京温榆河公园 Beijing Wenyuhe Park

A comprehensive "Carbon Points" smart park tour system and a variety of intelligent landscape interactive facilities have been established. Visitors can engage in low- carbon, environmental protection, and science popularization activities through these interactive installations. The park's smart management platform enables real- time monitoring and remote intelligent control of visitor flow, security, lighting, and other systems, enhancing the scientific, refined, and resource- saving management of the park.



Carbon Points Mini Program

1 "赚"积分

扫码进入小程序绑定微信，找到贴有“赚”积分标志的互动设备，再次扫码开始体验！

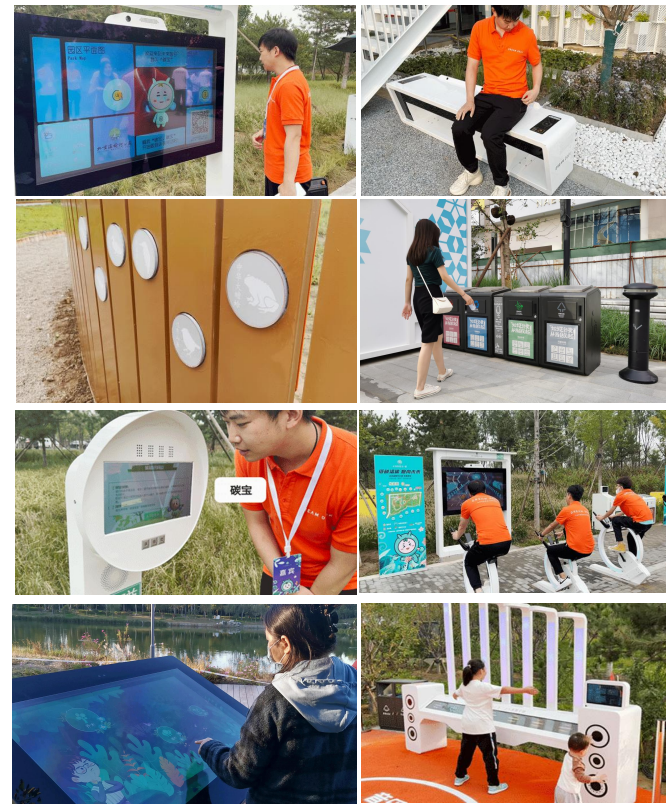
低碳行为积分

- 静心 -----> 捐赠微公益步数
- 低碳虚拟骑行 -----> 骑行1km
- 低碳马拉松 -----> 跑步1km
- 低碳竞速跑 -----> 竞速打卡

低碳科普积分

- 碳宝寻宝管家 -----> 注册签到
- 低碳百科问答 -----> 资料互动
- 碳知识问答 -----> 答题正确
- 低碳望远镜 -----> 瞭望解密
- 智能垃圾分类投筒 -----> 垃圾分类投放
- 碳宝解密 -----> 寻宝解密

A variety of smart landscape interactive facilities create a low- carbon park- visiting lifestyle and construct green technology- infused living scenarios.



2 "花"积分

查完积分美滋滋，接下来可以找到贴有“花”积分标志的互动设备，再次扫码扣除相应积分，就能解锁和享受更多体验！

用于趣味体验

- 智能服务椅 -----> 充电15min
- 互动音乐角 -----> 体验1min
- 守护碳汇 -----> 挑战守护碳汇
- 低碳照相机 -----> 带走照片1张
- 湿地音乐厅 -----> 解锁森林密语

划重点：
赚积分的场景共有11处，花积分的场景共有6处，快开启地毯式搜索吧！

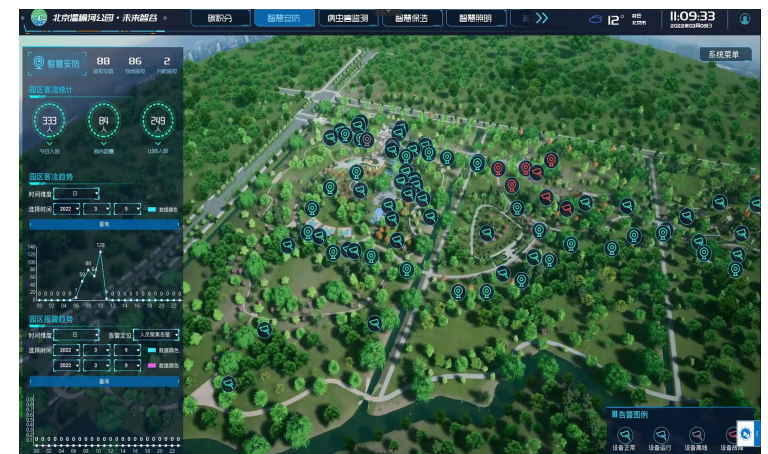
3 兑换优惠券

使用积分兑换优惠券，玩累了吃吃喝喝，最低只花1块钱！

自动售卖机

使用积分兑换优惠券，在支付租金费用时能节省一大笔！

AR游园车





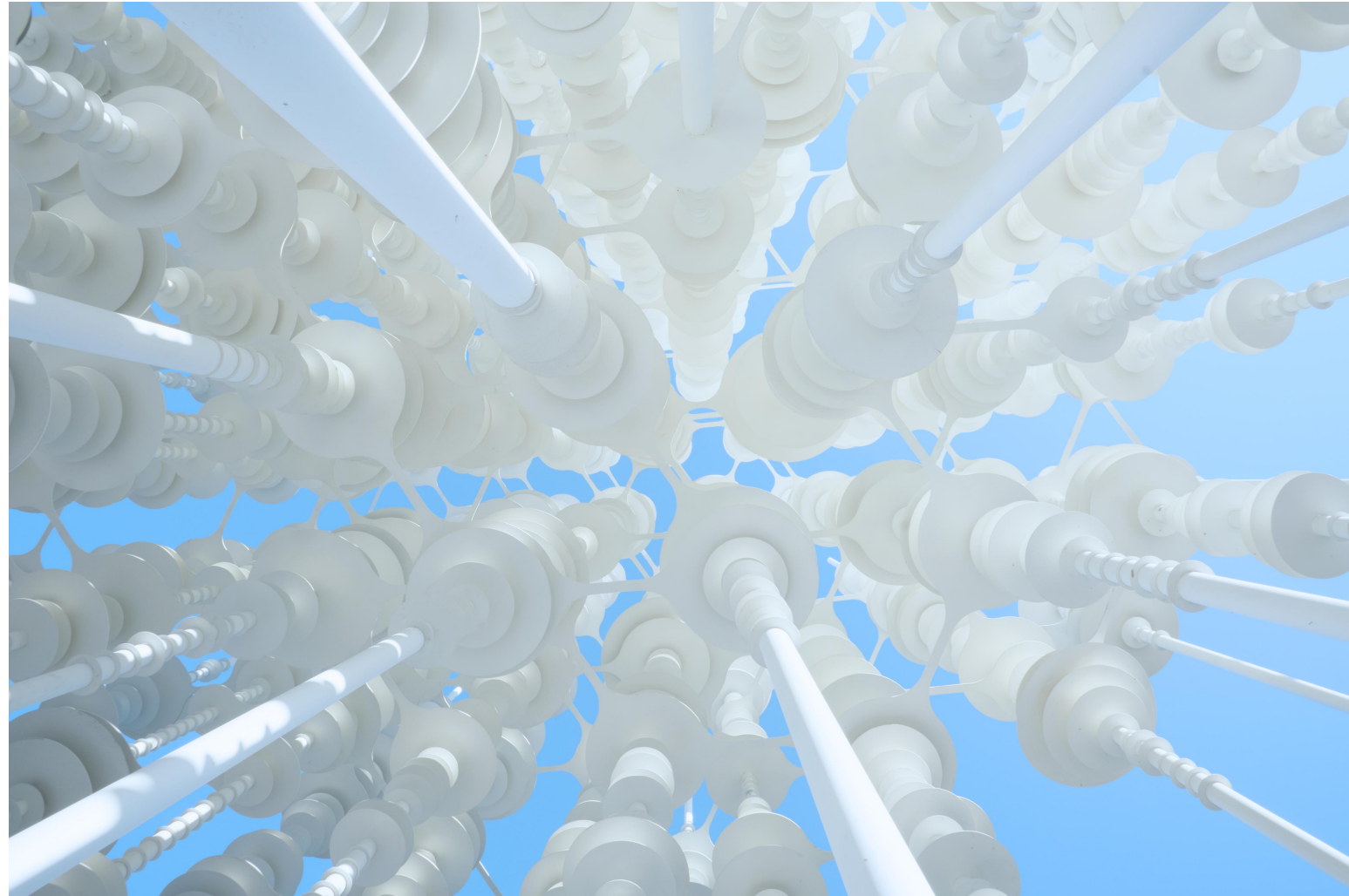
ENERGY TREE

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EARTH' S CHILD

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NEUTRALITY BRIDGE

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Beijing Wenyuhe Park



CORPORATE GARDEN • HYDROGEN TREE

北京温榆河公园 Beijing Wenyuhe Park



FESTIVAL OF THE EARTH

北京温榆河公园
Beijing Wenyuhe Park



SKY TELESCOPE

北京温榆河公园 Beijing Wenyuhe Park



GLACIER STORY

北京温榆河公园 Beijing Wenyuhe Park



ECO-MATERIAL CLIMBING

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Beijing Wenyuhe Park



THE EARTH'S GARMENT

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