A LITTLE HOUSE TO BUILD A DREAM ON

Join us to build a better tomorrow
THE DREAM...

Cellphone - 1983
THE DREAM...

Cellphone - 2014
THE DREAM...

Automobile - 1983
THE DREAM...

Automobile - 2014
Messaging - 1983
THE DREAM...

Messaging - 2014
THE DREAM...

House - 1983
THE DREAM...

House - 2014
In China, energy consumption in buildings are 30% of total social energy consumption.

In 2013, building energy consumption was equivalent of **1.1 billion tons of Coal**.
THE DREAM...

We dare to dream...

smarter home
connected home
lower energy consumption
safer and more comfortable
secure and independent
affordable ...
About Zero Carbon Systems
ZEDpavilion in 2010 Shanghai EXPO
Zero Carbon Pod 2.0
Zero Carbon retreats
Zero Economy
Call to join the dream
ABOUT ZERO CARBON SYSTEMS
ABOUT ZERO CARBON SYSTEMS

Background

Conceived by the team involved in the development of BedZED (Beddington Zero Energy Development)

2009 Spinoff from Bill Dunster’s ZEDfactory

2010 Shanghai EXPO ZEDpavilion
Founder & CEO – Mr. Shuo Chen

After obtaining a master’s degree from Martin Center of University of Cambridge in UK, Mr. Chen joined the architecture team that designed the first zero energy community in UK, the Beddington Zero Energy Development (BedZED). In 2009, he was appointed the director of ZEDpavilion of 2010 Shanghai EXPO and built the first zero carbon building in China. Currently, Mr. Chen is dedicated to sustainable city development and commercially viable zero carbon buildings.
Our Mission...

To push the limit of sustainable development
To bring low carbon life style into daily life
To build better cities that’s both ecological and economical
Video
Based on the BedZED model
Customized for Shanghai Weather
Adopted local construction practice

- Total area: 2674 square meters
- Passive ventilation save 70% energy
- Sunroom reduces winter heating energy use by 20%
- Rainwater collection sufficient for 60% of building water usage
22 Wind-cowls: Heat recovery ventilation system, powered by low velocity wind and solar panels

Water sourced heat pump cooling system – sourced from Huangpu River

Biomass roof insulation

50% recycled concrete thermal mass wall

Photovoltaic power generation

Recycle bio waste into bio gas power generation

Wind powered street lamps

LED indoor lighting

Solar powered water heating
ZERO CARBON SYSTEM

ZERO CARBON POD 2.0

Your Zero Carbon Home
ZERO CARBON POD 2.0

The Concept

- Bring zero carbon building closer to daily life
- A small self-sustained habitat
- Prefabricated modules to reduce cost and build time
- Transportable
- Does not damage the surrounding environment
- Smart enough to remember your preferences and habits, automatically controls the indoor environment
Core Technologies

- Solar Panels generating up to 10kw/h electricity
- Battery storage up to 3 days
- DC power system (DC air conditioner, lights, etc)
- Smart power management
- LED lighting
- Sandwiched wall material
- Lightweight steel frame structure
- Rainwater collection and filtration
- Onsite waste treatment through composting toilet, septic tank and artificial wetland
- Smart home automation to control sun shading, lighting, temperature and security
CONCEPT RENDERING AND EXISTING PROJECTS

Zero Carbon Pod 2.0 A

40 square meters
4kw/h Thin film type solar panel
200L phase change solar water heater
Ipad control
CONCEPT RENDERING AND EXISTING PROJECTS

Zero Carbon Pod 2.0 B
120 square meters
10kw/h Solar Power
88kwh Battery Pack
400L phase change solar water heater
4000L rain water tank with 3 stage filtration
CONCEPT RENDERING AND EXISTING PROJECTS

Zero Carbon Pod 2.0 C

300 square meters
100 square meters of patio
13kw/h solar system
120kwh battery system
Swappable with electric vehicles
100 square meters of artificial wetland
Software control and monitoring
CONCEPT RENDERING AND EXISTING PROJECTS
ZERO CARBON RETREATS

The Future Is Now
Why...

- Experience the most exclusive landscape of the world, get closer to nature
- Live in the perfect harmony of smart and sustainable lifestyle
- An investment that offers amazing quick return while preserving the local environment
What...

- A self-sustained small community
- Renewable energy source (solar, wind, hydro, biogas, biodiesel... etc)
- Energy saving, lower CO2 emission (LED, passive housing, water or ground source heat pump...)
- Low impact to environment (waste treatment, waste management, recycled and local building material, lightweight structure, off the ground)
- Low carbon site planning (transportation, recycling)
- Smart cloud-based management
- Localized activities and tours
- Short development time
- Replicatable through franchising
Dome tent outer shell
lightweight and fast to deploy
no need for foundation and hardening of soil
ECO CLUSTER

SOLAR UMBRELLA
BIOBIDGELS
RAIN WATER COLLECTION PLATFORM
SEPTIC TANK AND LEACHING FIELD
FUN DESIGN AND ACTIVITIES FOR THE YOUNG GENERATION
FUCHUN RIVER CONCEPT

Near Hangzhou
Wetland Nature School
Solar boating experience zone
Local Culture Tour
Local Organic Food
SITE PLANNING

1. Wetland and Organic farm
2. Organic Restaurants
3. Electric Car Park – Solar Charging
4. Solar boat dock
5. Tree House Villas
6. Natural Swimming pool
Your Specialized Low Carbon Property Manager

- Standardized Branding System
- Standardized Management and Operation System
- Standardized Service Quality Control
- Standardized Technical Support
- Standardized Marketing and Sales Channel
- Standardized Design Control
Business Advantages

For Consumers

- Private Residence
- Attractive Design
- Unique Experience
- Exclusive Location
Business Advantages
For Investors and Developers

- Faster development/deployment
  - (one year vs. 2-3 years)
- Access to location
  - (temporary building permit, remote location)
- Save money on infrastructure and energy cost
- Rental model reduces initial investment requirement
- Faster to establish franchise chain.
ZERO ECONOMY

Market Feasibility
Investment comparison

Traditional development

7000rmb/square meter + 10000rmb/square meter infrastructure investment

17000rmb/square meter

Zero carbon development

15000rmb/square meter
ZERO ECONOMY

Business Model Innovation

- Financial Leasing of zero carbon pod equipment
- Crowd sourced design
- Crowd funding project development
- EPC (energy performance contracting)
- Air-conditioning performance contracting
- Lighting management contract
- Standardized property management
Investment return model


cost of using green tech - cost of using traditional tech = investment in green

Investment in green / cost savings = payback period
**Example: For a 300 square meter resort villa**
- ZED require 22% down payment as initial investment
- Year occupancy rate for both case: 60%
- OLD development mode operational cost as % revenue: 70%
- ZED development mode operational cost as % revenue: 90%

<table>
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<tr>
<th></th>
<th>Total cost</th>
<th>Initial invest</th>
<th>Room rate/night</th>
<th>Revenue/year</th>
<th>Cost/year</th>
<th>Profit/year</th>
<th>Build period</th>
<th>Payback period</th>
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<tbody>
<tr>
<td><strong>OLD</strong></td>
<td>5.1M</td>
<td>5.1M</td>
<td>8000</td>
<td>1.75M</td>
<td>1.2M</td>
<td>0.55M</td>
<td>1 year</td>
<td>9 years</td>
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<tr>
<td><strong>ZED</strong></td>
<td>4.5M</td>
<td>1M*</td>
<td>8000</td>
<td>1.75M</td>
<td>1.55M</td>
<td>0.2M</td>
<td>0.5 Year</td>
<td>5 Years</td>
</tr>
</tbody>
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CALL TO JOIN THE DREAM

We are building a O2O Zero Carbon Life Style Platform
   A testing ground, A show stage
to demonstrate
   latest technology
   latest ideas

People come to experience and live the zero carbon life style in our resorts

Everything they like in our resorts they can bring it home

By simply scan a q-code or browse our online portal and mobile app, they can learn more about the green technology and environmentally friendly and innovative products found in our resorts, then purchase with a simple touch
CALL TO JOIN THE DREAM

Our friends who share our vision...

- Audi
- Kandi
- Tsing Capital
- Habitat
- Neri & Hu
- AIM
- Kitchen by the Garden
- Karma Life Yoga
- Tyloo
CALL TO JOIN THE DREAM

We are looking for friends and partners

- Architects
- Designers
- Renewable energy technology providers
- Home automation providers
- Sustainable and green building material supplier
- Local activity providers
- Land owners
- Investors!
JOIN US, DREAM TOGETHER!