

A LITTLE HOUSE TO BUILD A DREAM ON

Join us to build a better tomorrow

Cellphone - 1983









Cellphone - 2014









Automobile - 1983







Automobile - 2014





Messaging - 1983







Messaging - 2014







House - 1983







House - 2014





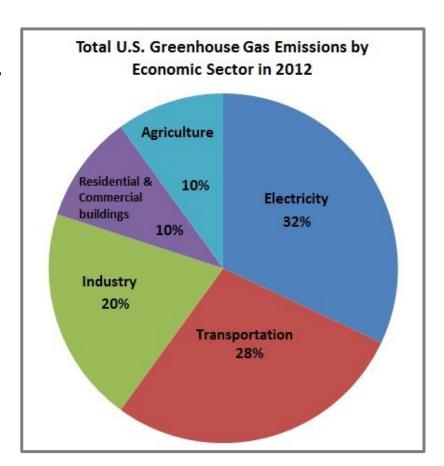


ENERGY CONSUMPTION IN BUILDINGS

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.**







We dare to dream...

smarter home connected home lower energy consumption

safer and more comfortable secure and independent affordable ...



CONTENTS

About Zero Carbon Systems

ZEDpavilion in 2010 Shanghai EXPO

Zero Carbon Pod 2.0

Zero Carbon retreats

Zero Economy

Call to join the dream





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





2010 SHANGHAI EXPO ZEDPavilion

ZEDpavilion 2010 SHANGHAI EXPO

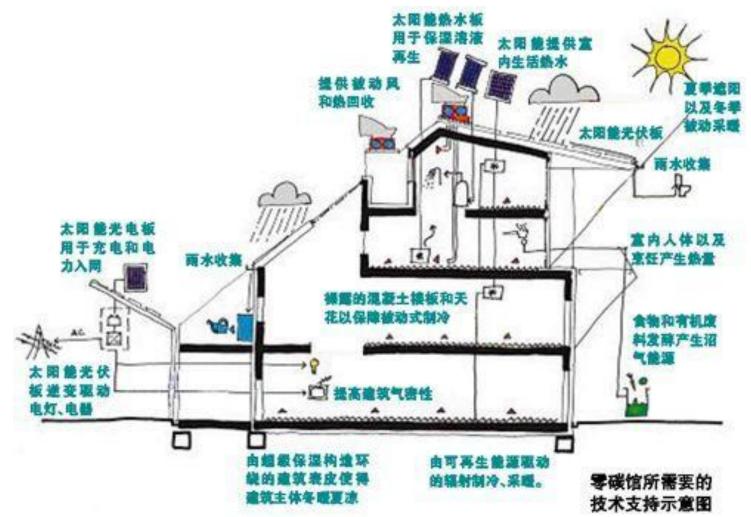


- ■Total area: 2674 square meters
- ■Passive ventilation save 70% energy
- Sunroom reduces winter heating energy use by 20%
- Rainwater collection sufficient for 60% of building water usage

Based on the BedZED model Customized for Shanghai Weather Adopted local construction practice



ZEDpavilion 2010 SHANGHAI EXPO





ZEDpavilion 2010 SHANGHAI EXPO

- 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 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



ZERO CARBON POD 2.0

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

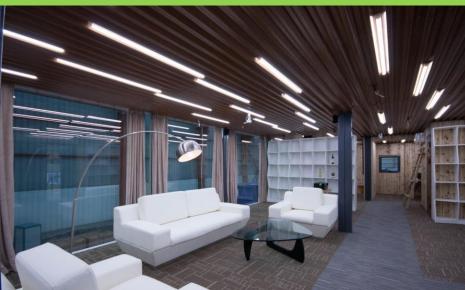




40 square meters 4kw/h Thin film type solar panel 200L phase change solar water heater Ipad control



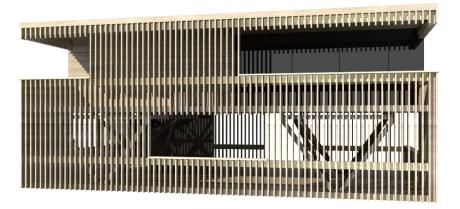






Zero Carbon Pod 2.0 C

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

















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

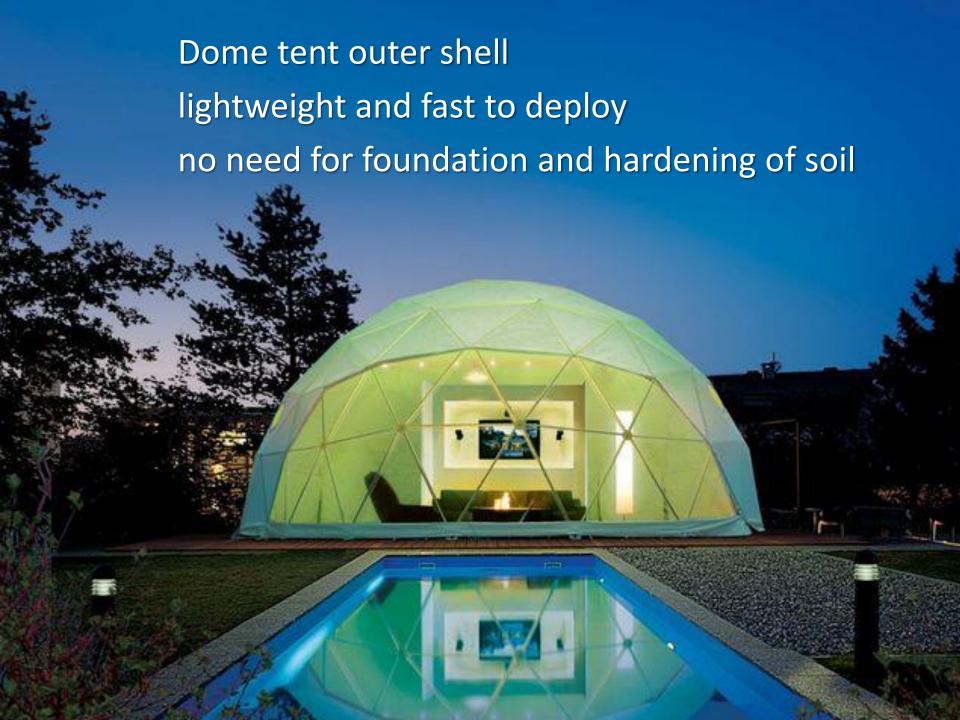
What...

- 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







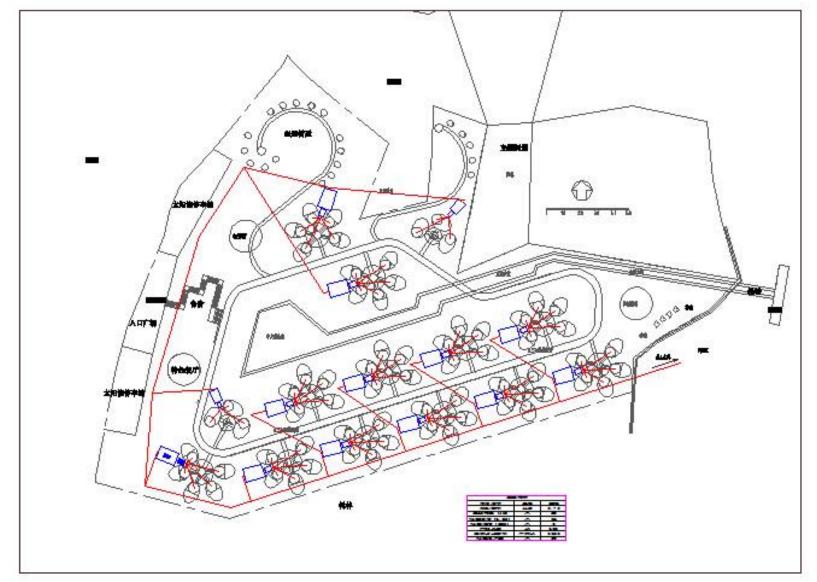


ECO CLUSTER



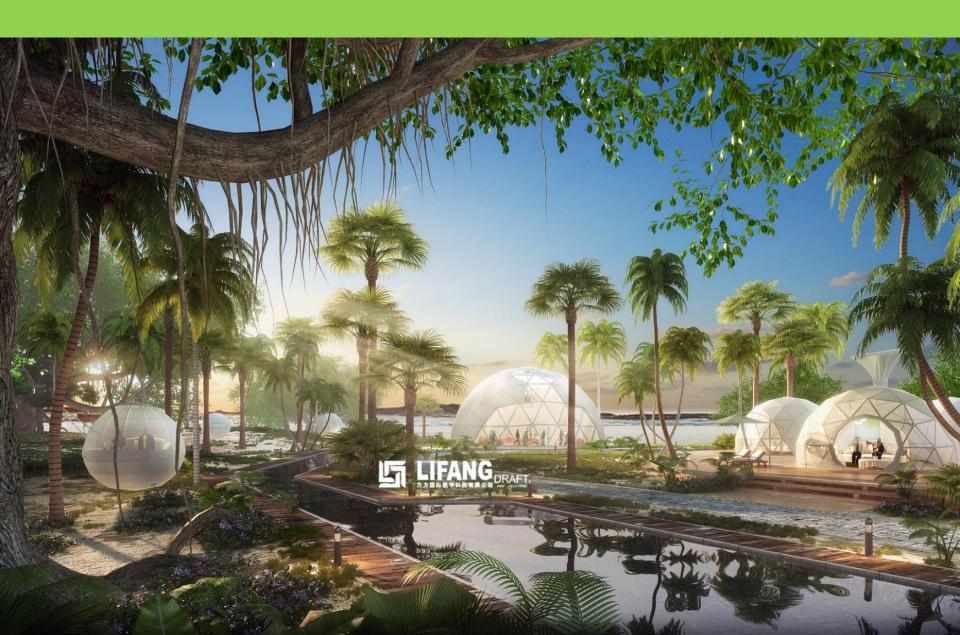


SEPTIC TANK AND LEACHING FIELD





SITE CONCEPT RENDERING



FUN DESIGN AND ACTIVITIES FOR THE YOUNG GENERATION



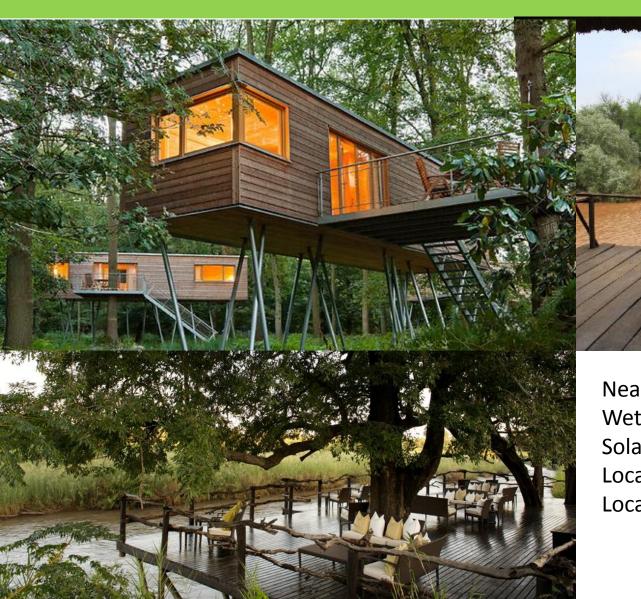








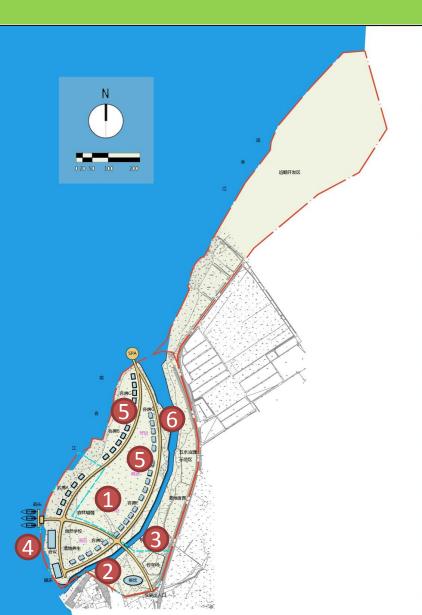
FUCHUN RIVER CONCEPT



Near Hangzhou Wetland Nature School Solar boating experience zone Local Culture Tour Local Organic Foood



SITE PLANNING



- Wetland and Organic farm
- Organic Restaurants
- Electric Car Park Solar Charging
- Solar boat dock
- Tree House Villas
- 6 Natural Swimming pool





ZERO CARBON RETREAT MANAGEMENT

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



ZERO CARBON RETREATS

Business Advantages

For Consumers

- Private Residence
- Attractive Design
- Unique Experience
- Exclusive Location





ZERO CARBON RETREATS

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.





Market Feasibility

Investment comparison

Traditional development

7000rmb/square meter + 10000rmb/square meter infrastructure investment **17000rmb/square meter**

Zero carbon development

15000rmb/square meter



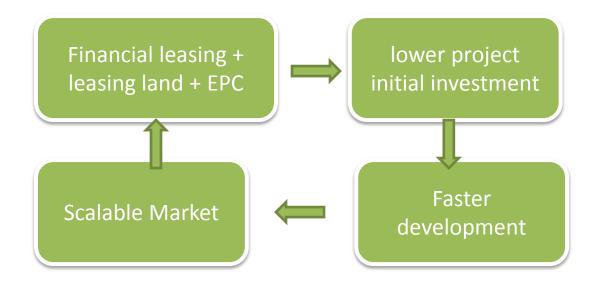
Business Model Innovation

- 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

Energy Cost Before – Energy Cost After – Gov. Subsidy = **Cost Savings**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%

	Total cost	Initial invest	Room rate/ night	Revenue /year	Cost/y ear	Profit/ year	Build period	Payback period
OLD	5.1M	5.1M	8000	1.75M	1.2M	0.55M	1 year	9 years
ZED	4.5M	1M*	8000	1.75M	1.55M	0.2M	0.5 Year	5Years





THERE IS MORE...

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

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...





















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!