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Implement Rio+20 Decisions; Demonstrate New Urbanization---

The Initiative of International Green Model City (IGMC)

# 践行里约+20决议，示范新型城镇化： 国际人居环境范例新城倡议

Global Forum on Human Settlements (GFHS)

16<sup>th</sup> 12 2013 Yangzhou

TO BUILD SUSTAINABLE HUMAN SETTLEMENTS  
AND TO PROMOTE THE UNHABITAT AGENDA

## International Green Model City

*A Initiative of Low-Carbon Cities, Integrating  
Green Economy, Leisure ,Culture and Residence in One System*

## The launch of IGMC initiative

The International Green Model City (IGMC), a low-carbon city (town) pilot project with high jumping-off point, was launched by GFHS at the headquarters of the United Nations in April 2011. It mainly features in combining low-carbon city building with green economy and culture. It will duly serve as a model to motivate forward-looking governments, enterprises and social forces to work together to explore new urbanization and support the UN Agenda in response to Sustainable Urbanization and climate change.



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# Contribute to Rio+20 Summit, Achieve the Future We Want

On June 18,2012 in the course of the United Nations Sustainable Development Conference, We shared the latest outcome of IGMC with representatives and professionals from around the global.USG Sha Zukang addressed our annual forum.

GFHS has made its commitment to the United Nations Sustainable Development Conference by successfully registering the IGMC in the UN Secretariat . UN Website:  
<http://sustainabledevelopment.un.org/index.php?page=view&nr=1024&type=1006&menu=809>



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## PROFILE OF GFHS

The Global Forum on Human Settlements (GFHS) was officially founded and registered in New York State, USA, with the objective of “Building Sustainable Human Settlements and Promoting the United Nations Habitat Agenda”, thereby establishing the platform for dialogue on world sustainable urbanization in response to the urbanization challenges.

As of June, 2013, the annual Global Forum on Human Settlements has been successfully held in China, the United States, Brazil and Germany for a consecutive 8 years. Next annual forum will occur in the city of Bogoda, Columbia on 2th-4th June As Bogota representative announced yesterday. Welcome your participation.



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# I. OBJECTIVES OF IGMC

## International Green Model City ——

© the positive action of mitigating climate change and promoting low carbon city building

© new exploration of sustainable city and new urbanization, Combining green economy and culture

© A harmonious and livable green city with incorporation of low-carbon ideas and technology

© A powerful engine to rapidly propel green economy

© A pioneer to lead sustainable recreation industry

© A platform to carry on the culture of human settlements

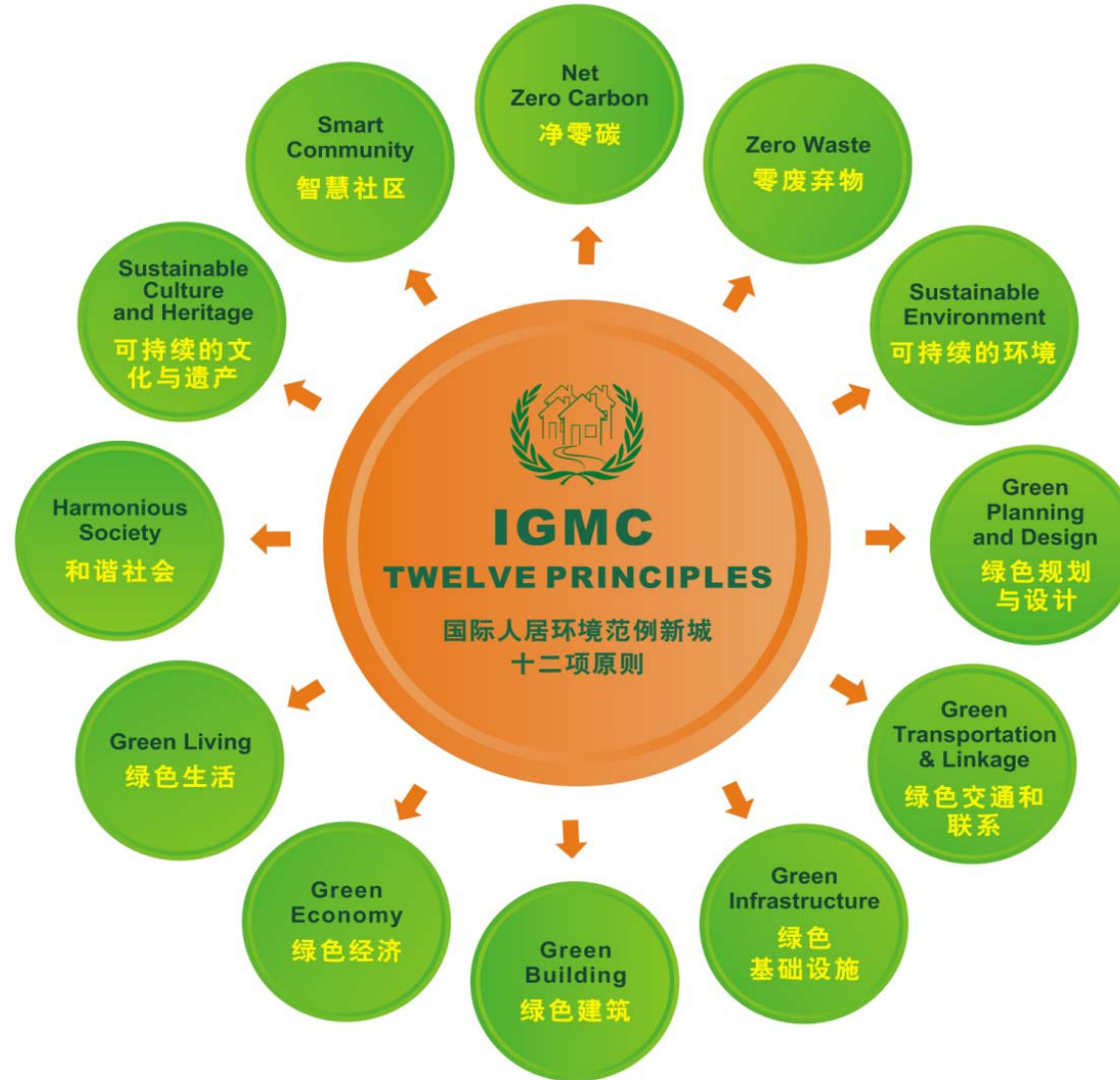
© A smart city and more happy home

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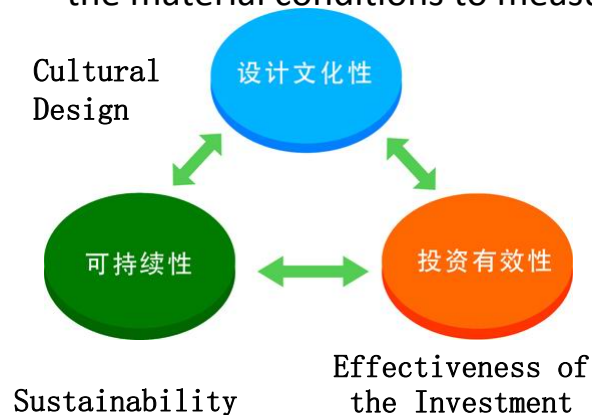
## 12 IGMC PRINCIPLES



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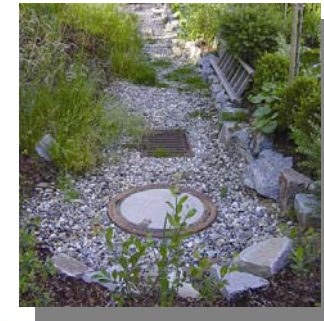
### III IGMC STRATEGIES

1. Adhering to the principle of People-Oriented, comprehensive integration of green low carbon planning and technologies, trying to be net zero carbon, zero waste, realizing sustainability, harmonizing the low carbon, environmental protection and convenience and comfort;
2. The Effective Integration of Sustainability, Design Culture, and Effectiveness of the Investment, to realize the good social benefit, environment benefit and economic benefit for the project;
3. We will integrally plan the relations between man and man, man and nature, industry and life, material and spirit, city and countryside, etc., making the project harmonious home of healthy eco-system, vibrant culture, attractive lifestyle, stable industry and spiritual riches;
4. To reflect the quality and individuality of its residents in sustainable urban design, not just with the material conditions to measure;



### III IGMC STRATEGIES

5. People-oriented, the implementation of democratic management, inclusive of fairness and tolerance, and constantly improve people's quality of life, continuously make residents feel sense of happiness and success;
6. Advocate for the recognition and practice low-carbon lifestyle, to create environment-friendly community together.
7. The project is successor and protector of the cultural heritage, it will not separated itself from the traditions of the past, it will enrich its modernity through cultural diversity and creativity;
8. It is a city never far from the rural roots and always combined with the rural life value in the rapid development process of metropolis;
9. Take the initiative to introduce the United Nations Global Compact on human rights, environment, anti-corruption in the ten principles to guide the development process, to practice social responsibility, to emphasize on both economic and social benefits;



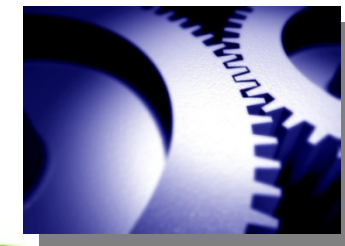
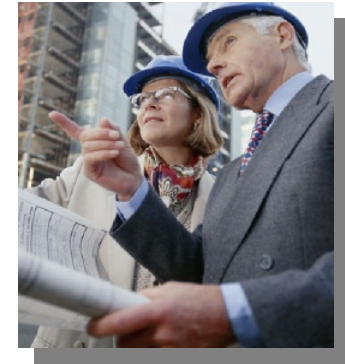


### III IGMC STRATEGIES

10. Implement the Three General Expertise System: i.e., inviting renowned domestic and overseas experts to be the general planner, general engineer, and general cultural expert. Make sure that they have the independent right to speak, and that the project will have high quality standards for technology and cultural taste;

11. Establish and adopt green procurement catalogue system, only suppliers and service providers who meet the minimum standards of low carbon and environmental protection, and make commitments to implement the upgrading plan will be qualified to participate in the project;

12. Adopt measures suiting local conditions; be practical and realistic; analyze specific issues; the IGMC principles, concepts and standards need be integrated into the local social economy, environment and market condition, avoiding the mechanical application and environmental inadaptability.



### III IGMC STRATEGIES

13. Carry forward both domestic and overseas advanced experience, ideas, culture and technology, be brave at innovation, especially innovate at concept, technology and management.

14. Attach equal attention to both hardware and software in the design and building process. While doing the planning, a method of ego-integrity and partner-participation is adopted, introduce domestic and oversea high-end resources and the state-of-the-art types of operation and brand, and ensure the project to be cutting edge and sustainable;

15. Make progress while ensuring stability and authenticate strictly. Pay attention to quality not quantity, be strict on the initial authentication, process monitoring and final assessment, strictly implement standard specification.



## IV GUIYANG WORKSHOP ON IGMC STANDARDS



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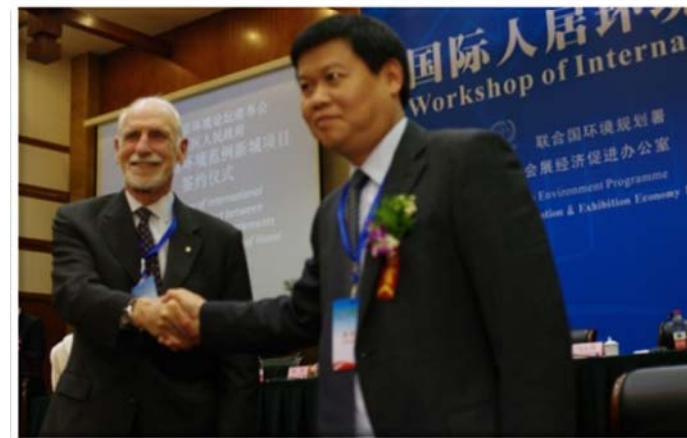
Arab Hoballah from UNEP address the workshop



Lu haifeng from GFHS address the workshop



Ma Changqing, Guiyang Vice mayor address the workshop



Signing Ceremony of the Settlement of IGMC in Guiyang

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## IV GUIYANG WORKSHOP ON STANDARDS



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## V IGMC STANDARDS STRUCTURE

It took some 50 experts two years to formulate the IGMC Standards which consists of about 190 pages, and its formation is as follows:

**Preface**

**Introduction and Background**

**The IGMC Vision**

**Key IGMC Principle (1-12) :**

Aims

Definition

Points

Indicators

Strategies

Requirements/Measures

Rating System

**Appendix**

## V IGMC Main Indicators

### ● Achieve overall Zero Net Carbon goals by 2020

到2020年全面实现净零碳目标

### ● Landfill waste to be reduced to 25% total in 2016; 5% total in 2020

到2016年送入垃圾填埋场的垃圾减至总量的25%；到2020年减至总量的5%

### ● Mixed use % should be more than 50% overall, Build daily living sphere of 800 meters; mixed uses should be greater than 90% for areas including residential communities \*

整体混合功用的比例应大于50%，建成800米生活圈；住宅区混合功用大于90%。\*

### ● TOD development: average 500m from public transit access\*

公交导向型发展（TOD）发展模式—平均500米半径内有公交服务设施\*

### ● The internal connectivity is at least 60 intersections per square kilometer. \*

范例新城内部连通性要达到每平方公里至少60个道路交叉节点\*

### ● % pervious pavement = 100% in flood zones; 50% or more overall

洪泛区透水性人行路面为100%，其他地区大于等于50%

### ● Percentage of use ratio for non-traditional water sources 50% or more

到2020年非传统水资源使用率大于等于50%

## V IGMC Main Indicators

- % of parking space per building 30% less than standards  
每栋建筑停车位比例比现标准少30%
- 80% or more of commercial and residential buildings meet China Green Building evaluation criteria and/or LEED\*  
80%或以上商业和住宅建筑达到中国国家绿色建筑标准或LEED标准
- Energy consumption per unit of GDP < 0.5 tons of standard coal equivalent/ ten thousand yuan\*  
单位GDP能耗小于0.5吨标准煤当量/万元人民币\*
- Water use unit of GDP < 30m<sup>3</sup>/ ten thousand yuan\*  
单位GDP用水量小于30立方米/万元人民币\*
- Number regional enterprises in Green Economy by 2018 = 75% or more  
到2018年绿色经济领域的企业数量大于等于75%
- Water use is less than 100 liters per day per person\*  
人均日用水量小于等于100升\*
- Per capita annual CO<sub>2</sub> production is ≤ 1.5 tons  
人均二氧化碳排放量每年小于等于1.5吨



## V RATING SYSTEM IN IGMC STANDARDS

**Total IGMC points is 300:**

**Zero Net Carbon 25**

**Zero Waste 20**

**Sustainable Environment 35**

**Green Planning + Design 30**

**Green Transportation and Linkages 30**

**Green Infrastructure 30**

**Green Building 30**

**Green Economy 25**

**Green Living 20**

**Harmonious Society 20**

**Sustainable Culture and Heritage 20**

**Smart Community 15**

## V RATING SYSTEM IN IGMC STANDARDS

**260 Points: IGMC Best Practice**

**230 Points: IGMC Good Practice**

**200 Points: IGMC Standard Practice**

Achievement of individual plans, actions and programs allows pilot IGMC projects to score points through the IGMC accredited certification process. Total points allow pilot IGMC communities to obtain IGMC status as above:

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# VI IGMC Goals in China (10 Pilots)



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## VII GUIYANG IGMC: CONCEPT PLANNING

Green Economy  
 Low-carbon Community  
 Business & Leisure  
 Happy Living



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## VII GUIYANG IGMC : DESCRIPTION

The objective of Guiyang IGMC is a **best practice for sustainable low carbon city characterized by Green Economy, resort and residence.**

### I. Basic Information

#### **Guiyang International Green Model City**

**Total Land Coverage:** c. 337 ha. (5,000 mu)

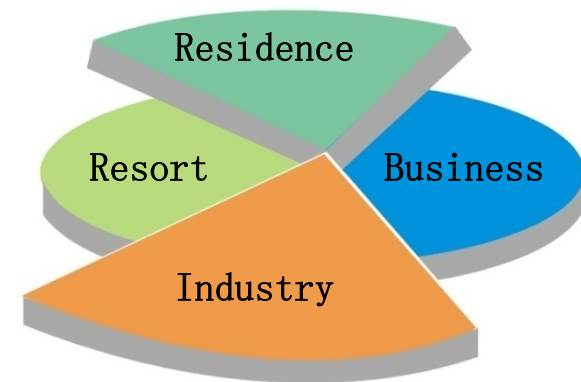
**Total Building Area:** c. 4,500,000sq. m.

**Resident Population:** c.30, 000~50,000

**Total Investment:** c. RMB10 billion

**2.Comprehensive Benefits:** When it is accomplished, the annual turnover is about 5 billion yuan; tax payment 300 million yuan; it will attract tourists 2 million person-time per year; it will generate employment nearly 10,000 people; it will upgrade the low carbon ecological industry, improve human settlements.

**3.Construction Phases:** Phasing development, to be completed in 8 years



## VII GUIYANG IGMC : DESCRIPTION

### 4.The Six Blocks of the Project:

The project mainly consists six blocks: Conference/Training Block, Head Office /Business Block, Industry Block, Resort Block, Residential Block, and Supporting Facility Block.

The main contents include: International Conference Center, International Low Carbon City Institute, Hotel, Green Economy Headquarters Base, Ethnic Folk Creative Culture and Tourism Industrial Park, Microsoft Training and Research Park, Climate Theatre, Ecological Leisure Mall, Resort Facilities, Forest Park, Eco-residence, Apartment Building, Hospital, School, etc. (final details are subject to the physical planning process) .



## VIII Taizhou IGMC: Profile of Taizhou

### **Orientation - cultural city, ecological city, medical city**

Taizhou, one of the central cities in the Yangtze River Delta, is located in central Jiangsu and north shore of the Yangtze River. It is the hometown of the former Chinese President Hu Jintao. It covers an area of 5797 square kilometers with a total population of 5.04 million. In 2011, the city's GDP is 240 billion yuan, and the fiscal revenue exceeded 60 billion yuan.

Taizhou is a cultural city with long history, and endowed with advantages in transportation. It is possessed with unique industrial base and harmonious livable environment. IGMC has been settled in the area of Taizhou Railway Station.



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VIII :  
 The red  
 line area  
 of Taizhou  
 IGMC pilot  
 project



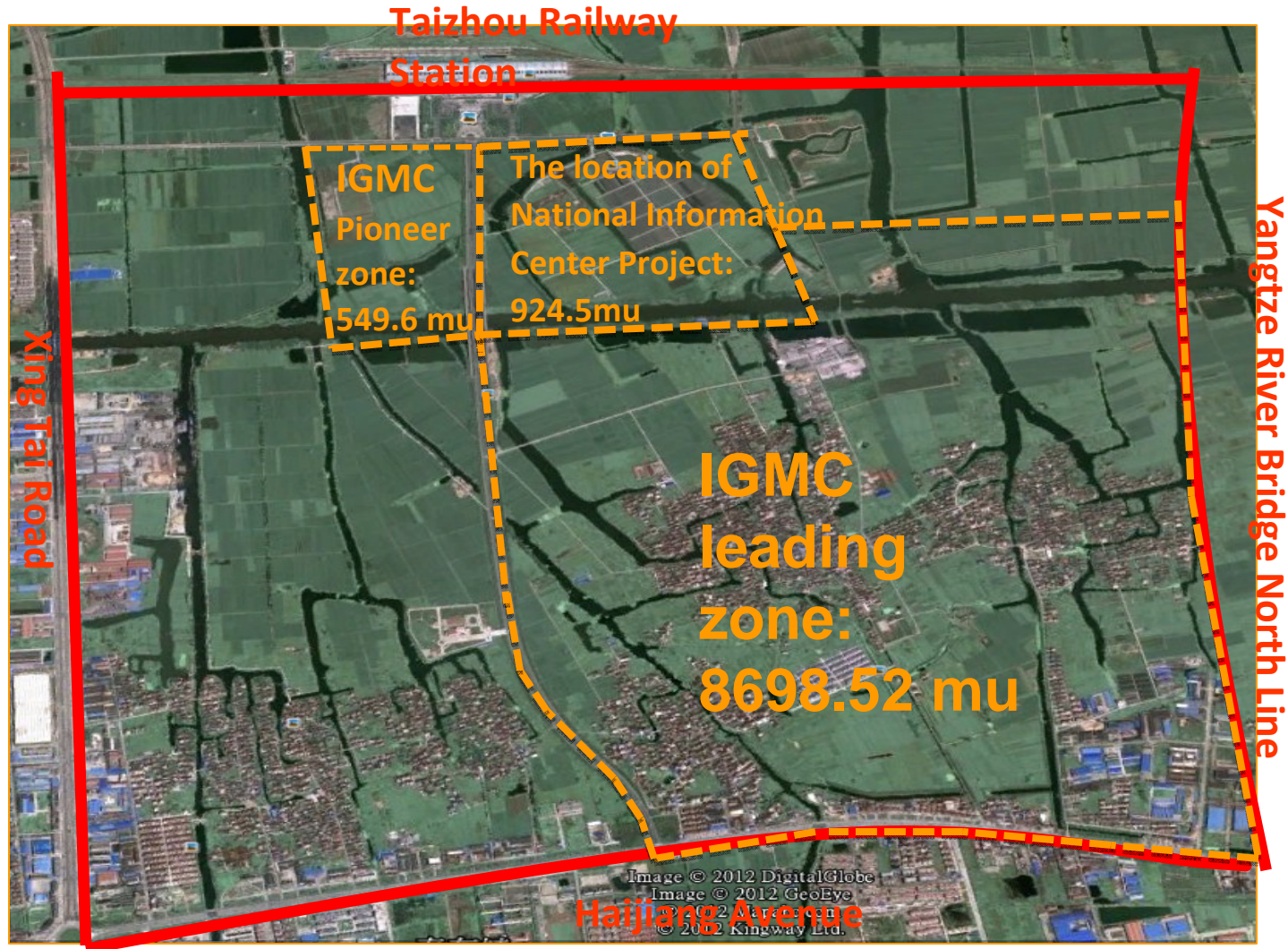
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VIII :  
Aerial  
View



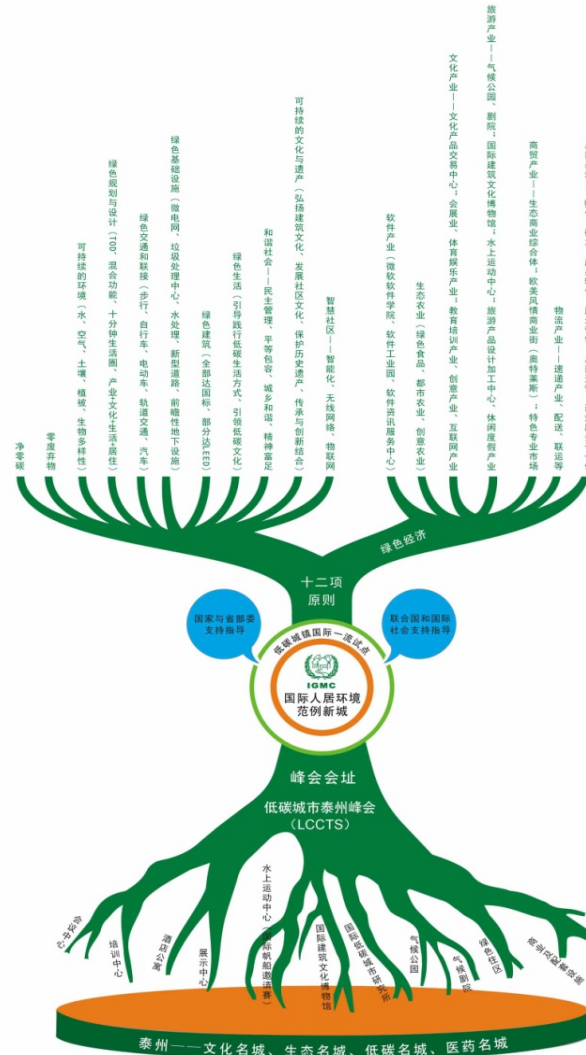
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## VIII : Taizhou IGMC Content Plan



Low-carbon City Summit (Taizhou) Venue, five-star hotels, climate theaters, International Architectural Heritage Museum, the headquarters of green economy, business clubs, ecological settlements, apartments, leisure facilities, facilities for the aged, supporting commercial, cultural, educational, medical facilities, etc.

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We are grateful to UNEP, UNDESA and all  
the other partners for their unshaken  
support.

***Welcome to join us!***

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## **High-level Dialogue on Sustainable Cities, Transport and Tourism & Global Forum on Human Settlements 2014**

**Bogoda, Columbia ,2th-4th June**

**Let's meet in the Next City, Bogota next June**



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