

Special Notes: This proposal is only for authorized personage's perusal. Right of originality belongs to GFHS. Dissemination and duplication is strictly prohibited.



A Best Practice of Low-Carbon Cities

Integrating Industry, Business, Leisure and Habitanacy in One System

可持续的国际低碳城镇：产业·商务·休闲·居住最佳范例

International Green Model City (IGMC) in Cooperation with UNEP —  
Standards and Implementation of Sustainable Human Settlements

与联合国环境署合作的国际人居环境范例新城：  
可持续的人居环境标准与实践

By the Global Forum on Human Settlements (GFHS)

18<sup>th</sup> June 2012 Rio De Janeiro

TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IOBJECTIVES OF IGMC

### International Green Model City——

- ◎ In support of the response to climate change by the UN and the world, promoting the positive impact of low carbon city
- ◎ Combining industry and culture, new exploration of sustainable land development and new pattern of urbanization
- ◎ A harmonious and livable new green city with incorporation of low-carbon ideas and technology
- ◎ A powerful engine to rapidly propel low carbon industry
- ◎ A pioneer to lead low carbon, ecological entertainment industry
- ◎ A platform to carry on the culture of human settlements
- ◎ A smart city and more happy home

TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



II IGMC PRINCIPLES

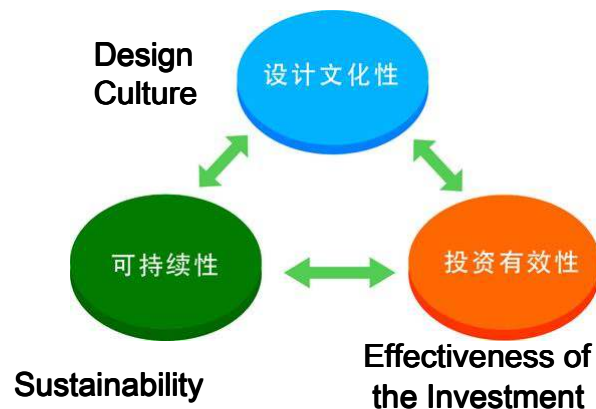


TO BUILD UP SUSTAINABLE HUMAN SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IGMC STRATEGIES

1. Adhering to the principle of People-Orientation, comprehensive integration of green low carbon planning and technologies, trying to be 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;



TO BUILD UP SUSTAINABLE HUMAN SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IGMC STRATEGIES

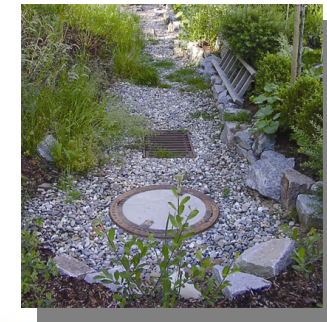
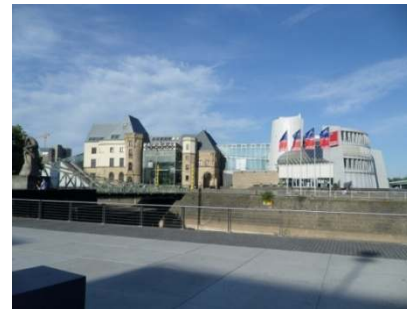
To reflect the quality and individuality of its residents in sustainable urban design, not just with the material conditions to measure

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

Advocate for the recognition and practice low-carbon lifestyle, to create environment-friendly community together

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

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



TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA

## IGMC STRATEGIES

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

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

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





## IGMC STRATEGIES

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

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

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



TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IGMC STANDARDS STRUCTURE

It took over 50 experts a whole year to formulate the IGMC Standards, previously in two different versions, the current English version consists of 123 pages, its formation is as follows:

Preface

Introduction and Background

The IGMC Vision

**Key IGMC Principle 1-12 :**

Aims

Definition

Points 20

Indicators

Strategies

Requirements/Measures

Rating System

Appendix





## RATING SYSTEM IN IGMC STANDARDS

Total IGMC points is 300:

Zero Net Carbon 20

Zero Waste 20

Sustainable Environment 40

Green Planning + Design 30

**Green Transportation and Linkages 30**

Green Infrastructure 30

Green Building 40

Green Economy 25

Green Living 20

Harmonious Society 20

Sustainable Culture and Heritage 15

Smart Community 10



## RATING SYSTEM IN IGMC STANDARDS

Total IGMC Points 300

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

260 Points: IGMC Model Community

230 Points: IGMC Best Practice

200 Points: IGMC Good Practice



## PRINCIPLE OF GREEN MOBILITY IN IGMC STANDARDS

Green Transportation/ Linkage refers to means of transportation and transit systems that have a low overall environmental impact and include public transit, advanced low or no carbon transportation, walking and bicycling and car sharing. Green Transportation enables efficient, people-oriented and environmentally-friendly mobility through coordination with Green Planning and Design, Green Infrastructure and Net Zero Energy planning. Green Transportation provides high-quality traffic systems, advocating public transit use priority, promoting traffic calming and Net Zero Carbon transportation modes (including cycling and walking), and utilizing new energy vehicles to create a "smooth, safe, clean mobility experience and impact."



## INDICATORS OF GREEN MOBILITY IN IGMC STANDARD

Points of green transportation is 30 high than average (25) several important indicators is as below :

- 1.TOD development: average 500m from public transit access\*
- 2.% of people using public transit = 50% or more
- 3.% of people using public transit, bicycling or walking = 80% or more
- 4.Average commute time less than 30 minutes
- 5.% alternative fuel public sector vehicles = 100%
- 6.Congestion pricing/ traffic demand management system enacted
- 7.Kilometers driven per day, private automobile less than 15 km average



## STRATEGIES AND MEASURES OF GREEN MOBILITY IN IGMC STANDARDS

1. Institutionalize public transport priority
2. Walking and bicycling must have priority over personal cars
3. Transit-Oriented Development (TOD) is the primary development mode
4. Strategic bus and transit system planning, management and technology
5. Vigorously promote bicycle traffic and bicycle amenities
6. Promote carpooling and car-sharing through incentives and technology
7. Provide subsidies and incentives for low or zero emission vehicles
8. Implement congestion pricing
9. Establish flexible working hours; stagger hours by government, industry
10. Create car-reduced IGMC pilot project surface area

TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA

# IGMC IMPLEMENTATION: CONCEPT PLANNING OF GUIYANG IGMC PROJECT

Green Economy  
Low-Carbon  
Communities  
Business  
Leisure  
ell off People



TO BUILD UP SUSTAINABLE HUMAN SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IGMC IMPLEMENTATION: DESCRIPTION OF GUIYANG IGMC

The objective of Guiyang IGMC is a **best practice for sustainable low carbon city involved Green Economy, resort and residence**. The main informations are as follow:

### I Basic Information

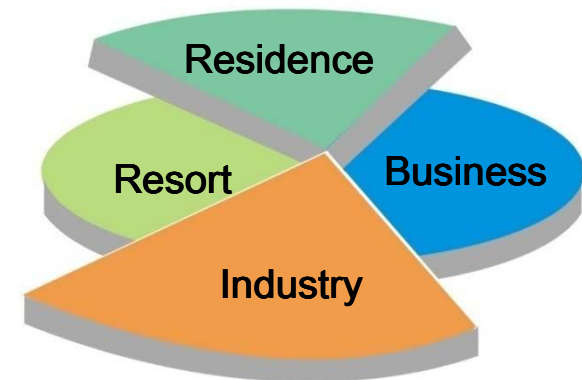
**Name :** Guiyang International Green Model City

**Total Land Coverage:** c      ha ( ,      mu)

**Total Building Area:** c      ,      ,      s      m

**Resident Population:** c      ,      ,

**Total Investment:** c      bln yuan RMB



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

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

TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



## IGMC IMPLEMENTATION: DESCRIPTION OF GUIYANG IGMC

### The Six Blocs of the Project:

The project mainly consists six blocs: Conference Training Bloc, Head Office Business Bloc, Industry Bloc, Resort Bloc, Residential Bloc, and Supporting Facility Bloc. 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, Green Business Head Office, Ecological Leisure Mall, Resort Facilities, Forest Park, Eco-residence, Apartment Building, Hospital, School, etc (final details are subject to the physical planning process)





# GUI ANG OR SHOP ON STANDARDS



TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA

# 国际人居环境范例新城 *International Green Model City*

*A Best Practice of Low-Carbon Cities, Integrating Industry, Business, Leisure and Habitancy in One System*



Arab Hoballah from UNEP address workshop



Lu haifeng From GFHS address workshop



Ma Chang ing, Guiyang vice mayor address workshop



Signing Ceremony of the Settlement of IGMC in Guiyang

TO BUILD UP SUSTAINABLE HUMAN SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA

# GUI ANG OR SHOP ON STANDARDS



TO BUILD UP SUSTAINABLE HUMAN  
SETTLEMENTS AND TO PROMOTE THE UNHABITAT AGENDA



Appreciations to the support from  
UNEP-SBCI and related experts and  
organizations

Welcome cooperation  
**THANK YOU VERY MUCH**