International cooperation for innovation in urban development policy and practice: results and perspectives from IUC ASIA (China, India, Japan) 13 Oct. 2020

Session 2: Green Deal: Circular Economy and Energy Transition

CHENGDU (China)

Cooperation with: IUC – Manchester / Rome

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Deputy Director, Energy Internet Research Institute
Who We Are

Energy Internet Research Institute, Tsinghua University

- Developing New Technologies
- Incubating Start-ups
- Building Clean Tech Community Worldwide
- Clean Energy Development & Utilization
- Energy Digitalization
- EV & Infrastructure
- Energy Storage
- Hydrogen Power
- Cross Border Collaboration

Yi Liu
Deputy Director
Developing New Technologies

1st Institute established solely focusing on these areas

250+ full-time employees

Well Connected to big energy corps in China

Nearly 15 million USD annual R&D income from top 10 energy corps in China

Renowned for defining and promoting Energy Internet in China

Wrote national Energy Internet promotion policy, evaluated 55 national pilot projects nationwide, total investments more than 4.5 billion USD

Incubating New Startups

13 graduated incubatees in 3 years, total valuation 400 million USD

易冲无线科技有限公司

云科新能汽车技术有限公司

昆仑智汇数据科技有限公司

锋源创新科技成都有限公司

清蓉库博能源科技有限公司
More About Chengdu

Capital city of Sichuan Province

- Population: 16,581,000
- Area: 14,335 km²
- GDP: 1701.265 billion yuan (2019)
- 2nd Largest Number of Vehicles
- 3rd City with 2 airports

The past You know

- Panda Bear
- Spicy Hotpot
- Chuan Opera
- Majhong

The Future to expect

- National Central city
- Key City of BRI
- Gateway City to EU
- National Science Center
More About Tianfu New Area

Basic Information

- Approved in October 2014
- The 11th national New District
- Place Where Park City was first proposed

- 114 International/regional routes
- 50 million Annual passenger throughput
- > 400 Innovation companies
- > 30 National scientific research institutions
What is Park City

Concept of Park City

- Public Attribute (social)
- Spatial Attribute (city)
- Ecological Attribute (natural)

Value layer
- Eco-System
- High-quality development
- Beautiful life

Digital layer
- Smart habitat
- Digital city
- Intelligent Community

Physical layer
- Environment
- Industry-city co-prosperity
- Green Life
Energy Transition is Undergoing Here

Sustainable City Development - A China Practice

Common Feature
- All-time clean energy supply, energy efficiency reaches the international advanced level, and terminal consumption is fully electrified.

Luxizhigu Area
- Carry out multi-dimensional water system management, build a solid ecological foundation, and nurture new technologies and products of urban water ecology.

Center of Luxizhigu Area
- Energy data drives urban brains, and smart energy efficiency monitoring and evaluation leads to high-quality industrial development.

Energy Internet Industrial Park
- Use passive buildings, hydrogen energy communities, and integrated energy to create a new type of urban energy system that combines active and passive energy.

Park City Innovation Scenarios (City Opportunity List)

Goals
- the first Park City in the World
  - Clean and Zero Carbon City: Energy consumption per unit of GDP is reduced by 25% compared to 2020; Electric energy accounts for the proportion of terminal energy consumption ≥35%.
  - Smart Digital City: Infrastructure intelligence level ≥90%; Intelligent transportation level ≥95%.
  - Ecologically resilient city: The greening target reaches the urban area ≥50%; The proportion of blue-green space ≥75%.

Green Deal
- Circular Economy Action Plan
- Ecosystem Protection Plan
- Green Building Energy Saving Plan
- Zero Emission Plan in Transportation
Energy Internet International Innovation Center

Launched in Chengdu and Beijing, the Energy Internet International Innovation Center (EIIEC) provides access to all the Big Energy Corp in China. It is located in the National New District, West Science City of China, and 1st Park City in the World.

Funded by the European Commission, promoting sustainable urban development cooperation.

CA Based International NGO Supporting clean energy entrepreneurs and Startups All Over the World.

NEW ENERGY NEXUS

Chengdu and Beijing Based Research Institute with Access to All the Big Energy Corp in China.

TIANFU NEW AREA

Funded by European Commission promoting sustainable urban development cooperation.
2019 Energy Internet International Innovation & Entrepreneurship Summit

12 Countries
669 Participators
30 Cooperations
100w+ Read
2019 Onsite Meetings with EU Cities Experts
2020 Going Online – Few screenshots of recent meetings Rome & Manchester
Next steps

- MoU to be signed with Rome Sapienza University and Manchester Metropolitan University
- Launching joint research programmes
- Launching joint new technology incubation activities for start-ups and university students
- Launching joint academic exchange programmes including summer schools, etc.
- Engaging with further European cities
- 2020 Energy Internet International Innovation & Entrepreneurship Summit (see next slide)
Keynotes

Energy Internet Practice of State Grid
New Infrastructure and Energy Internet
Energy Innovation of Tsinghua University
Innovation Environment of Chengdu City

Call for Actions

“Let’s Energize the World Together”

Innovation gathering

40+ New Energy Startups from China
20+ New Energy Startups from Europe
10+ New Energy Startups from Other Developing Countries
Welcome to Chengdu