

Energy Security and Climate Protection at Local Authority Level
Experiences and Situation in China



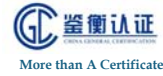
Mr. Lin WAN
China General Certification Center
Rio de Janeiro, Brazil April 30, 2010

Who is China

- ✍ **Global Manufacturing Base**
- ✍ **Fast developing Application Market**
- ✍ **Test Zone for Renewable Energy**



One of the latest efforts



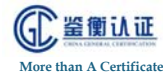
✍ Increase the Liquidity of Renewable Energy

- ✍ Today ---- Product and component
- ✍ Tomorrow ---- Project and System
- ✍ NEXT ---- Profit, return and derivative of renewable energy

✍ Share responsibility together through market scheme

- ✍ By then, maybe what we need to do is try to collect all the possible global resources together, to develop good Renewable Energy project together, if so, who cares it was from America or Asia

What happens in China



✍ Experiences from typical cities ---- from Capital to small city

- ✍ Problem and Challenge
- ✍ Possible proposal for cooperation

Typical City ---- Beijing



- ✍ **Goal ---- Green Beijing**
- ✍ **3 Center**
 - ☞ **R & D, Pilot Zone, High technical manufacturing**
- ✍ **6 Golden Sunshine Scheme**
 - ☞ **Roof, LSPV, Campus, Solar Heater, Rural, Garden**
- ✍ **6 new energy industry association**
 - ☞ **including wind, PV, solar thermal, Geothermal energy, Biomass and Nuclear**
- ✍ **New Energy Base in Yanqing**
- ✍ **Green Energy Base in Pinggu**
- ✍ **Supporting Policy Scheme**

Typical City ---- Kunming



- ✍ **Leading field ---- Solar**
 - ☞ **2400 hrs / 310 days per year**
 - ☞ **Solar Heater**
 - * **Manufacturing Capacity : 500,000 m2**
 - * **Installation : 30% = 80,000 tons coal per year**
 - ☞ **PV**
- ✍ **Biomass ---- Bio-Diesel by Tung Seeds**
- ✍ **Garbage burning Power Station**

Typical City ---- Kunming



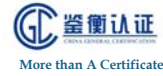
- ✍ Special Senior Coordinate Team by local government
- ✍ Strategy and policy focused on development of solar energy
- ✍ R&D support from local government
 - ☞ 8 projects
 - ☞ Over 36 million RMB investment
- ✍ Industry Zone ---- to build up industry cluster
- ✍ Special government construction fund
- ✍ Pilot project, including PV power station in 56 villages, independent PV LED road lighting system

Typical City ---- Dezhou



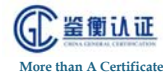
- ✍ Strategy in 2005 : China Solar City ---- Technique and Application, Manufacturing, Low carbon City
- ✍ Special Commission led by head of the city
- ✍ China Solar Valley in 2006
 - ☞ Over 5 Billion investment
 - ☞ 2,000,000 m²
- ✍ National Pilot City of Renewable energy application in Construction
 - ☞ 6 Million from Central Government
- ✍ 4th World Solar Cities Conference in Sept 2010
- ✍ Other RE : Wind, Geothermal energy, Biomass

Typical City ---- Dezhou



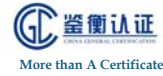
- ✍ Investment over 100 Million RMB every year
- ✍ Sales over 5 Billion RMB
 - ☞ Leading companies
 - ☞ Mr. Ming HUANG
 - ☞ Solar Heater, 3 Million m2
- ✍ Resources ---- 3rd Category , 2200~3000 hours per year
- ✍ Pilot Project, abt 14.85 Billion RMB
 - ☞ Million Roof Plan, 100% new building in central city and 50% in rural areas
 - ☞ Solar Bath Room in over 100 villages
 - ☞ 5555 PV Light project (340 KW) : 50 crosses, 5 main roads, 5 main area, 5 living blocks

Typical City ---- Baoding



- ✍ China Electricity Valley
 - ☞ 13 km² area
 - ☞ 5 Billion RMB investment on infrastructure
 - ☞ 50 Billion GDP
- ✍ PV, Wind, equipment manufacturing
- ✍ Taxation Credit
- ✍ Investment and Trustee Fund

Other Cities



✍ Dunhuang

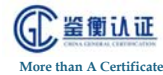
- ✍ Dunhuang desert solar city development strategy - evaluated by National Energy Administration

- ✍ LSPV

✍ Weihai

- ✍ like Dezhou, another National Pilot City of Renewable energy application in Construction

Summary of Local Authority Level



✍ Strategy

- ✍ Position, goal, vision, competitive advantage

✍ Policy scheme and Fiscal support

- ✍ on R&D, Taxation, HR import, Depreciation

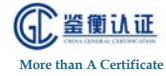
- ✍ Together with central government's policy

✍ Industry zone for fast growing cluster

✍ Pilot projects

✍ Leading companies

Problem and Challenge



✍ Sustainable development

- ☞ Limited resources
- ☞ Fit in Tariff
- ☞ Environment, Raw Materials, Grid Connection

✍ Liquidity of project, or further

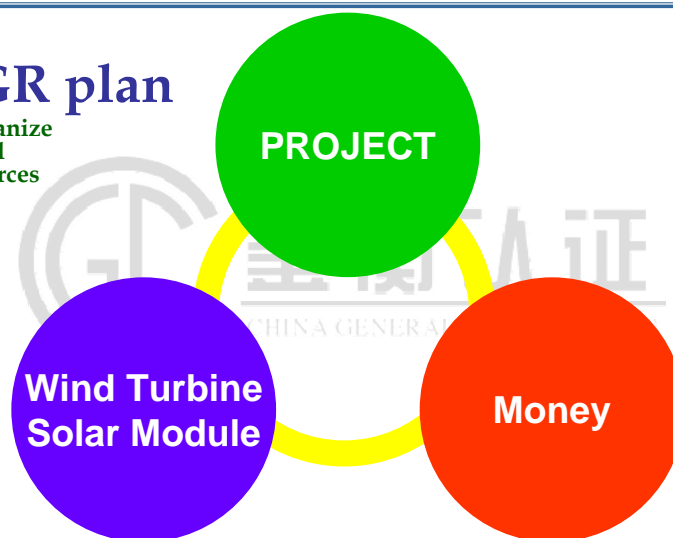
- ☞ Standard in Renewable Energy, like LSPV to Solar Heater projects
- ☞ Quality guarantee
- ☞ Trade scheme
- ☞ Market

Possible follow-up action



RGR plan

Reorganize
Global
Resources





Thanks for your precious time.

Mr. Lin WAN

**China General Certification Center, Deputy Director
Room 1108, Yi Heng Da Sha, 28 BeiSanHuan Dong Lu, Beijing, 100
013, P. R. China**

Tel: +86 10 5979 6665 ext 3003

Fax: +86 10 6422 8215

Mobile: +86 1360 133 0507

Email: wanlin@cgc.org.cn