Yuncheng city was called Hedong in ancient times which is one of the most important cradleland of China nationality with five thousand years. It is located in the southwestern Shanxi and across the Yellow River from Weinan in Shaanxi and Sanmenxia in Henan. The land area is 14,000 square kilometers. It governs one district, two cities, ten counties and three provincial development zones with population of 5.1 million. The average GDP per capita is 2096USD in 2009.

1. Advantages of ecological city construction in Yuncheng

(1) Unique location advantage

Yuncheng city is located in the central hinterland of the country and is the economic connection of central and western China;

It is located in north, northwest and mid-south China, the junction of Shanxi, Shaanxi and Henan provinces.

It is located in the central region of Comprehensive Experimental Zone of Regional Harmonization Development in the Huanghe Golden Triangle of Shanxi, Shaanxi and Henan
Provinces. It is the central city of the region in the future.

(2) Typical representative

Yuncheng is an important component part of energy and heavy chemical industry and agricultural zone in Shanxi;

The average GDP per capita is the middle level of six central provinces including Shanxi, Henan, Hubei, Hunan, Jiangxi and Anhui which can represent the economic and social development level and features.

(3) Strong potentiality of development

Excellent industrial base. In 2009, the output of alumina, electrolyse aluminum and magnesium are 5.4%, 5.2% and 25% of the total in the country. It shows a very important position in the country.

Unique tourism resources. There are 44 state-rank and 112 provincial-rank cultural relic sites in the city. It is in the top of the prefectural cities in China. The famous Guanque Tower, Pujiu Temple, Yongle Palace and Guangong Hometown are located in the city.

Advantageous traffic networks. The highway density is 103.3 kilometers in one hundred square kilometers; the expressways include Datong to Yuncheng, Yuncheng to Sanmenxia, Yuncheng to Fenglingdu, Houma to Yumenkou and
Dongzhen to Jiyuan expressway;

The railways include: Datong to Xi’an special line, Nandatong to Puzhou line, Houma to Xi’an line and Yuncheng to Sanmenxia line.

There are 15 flights including to Beijing and Shanghai in Yuncheng airport. In 2009 the overall qualification index is No.63 in the country.

(4) Robust deployment and innovation.

Yuncheng government unites Weinan city in Shaanxi, Sanmenxia city in Henan and Linfen city to put forward the strategic construction programming and Assumption of the Comprehensive Experimental District of the State Regional Harmonized Development in Huanghe Golden Angle. It is the only experimental zone which breaks the provincial administration districts and accumulates experience for the state regional harmonized development and explores the routes for the country.

2. Preliminary tentative plan for the construction of ecological city

With the urban long-term development the frame and infrastructure of the city has been forming. The emphasis of urban development is transferring to the perfection of urban
functions, improvement of urban elegance and establishment of urban brand.

In order to set up the image of charming city in the state and establish a more harmonious and livable ecological low-carbon sustainable city. During the twelfth fifth-year program the city government will encourage to use widely the advanced ISOMAX construction energy-saving technology and enforce the construction and overall improving of urban infrastructure and environment as the followings:

1. During the urban reconstruction and expansion it will use the advanced ISOMAX energy-saving technology, solar PV generation technology and intermediate water treatment technology. The natural energy and environment protection facilities will be adopted to solve the heating in winter, cooling in summer, hot water availability in all seasons, illumination and intermediate water recycling system in order to realize zero energy consumption and emission for the ecological energy-saving city.

2. Reconstruction of the street lamps of solar energy and wind power energy. With the speed urban construction the urban illumination demand is increasing rapidly. By the end of 2009, the capacity of the street lamps is 5000kw of 48000 lamps. The
annual power cost is 18.1852 million Yuan and the maintenance is 24 million Yuan. In order to reduce the cost the city government will improve the situation with total length of 56.7km. It is estimated that it will save power cost of more than 20 million Yuan annually.

3. Urban garbage generation project. With the quick urbanization development the pollution of garbage and weak treatment will restrict the development. The present daily garbage volume is 1000T including living garbage, construction garbage and hospital rubbish. The main treatment is to bury it. The garbage generation plant can utilize the rubbish comprehensively and can create direct economic benefits of more than one hundred million Yuan.

4. Wind power generation. As a kind of clean energy, the technology of wind energy is mature with lower cost and safer in comparison to nuclear energy and solar energy. Yuncheng basin is located around mountains. Zhongtiao Mount is on the south with a length of 190km from west to east and 25km wide from north to south. The altitude is 2322m. Because of the long narrow and flat high mount it forms a natural routeway of wind power generation. The annual available wind is more than 2000 hours which can generate about 120,000kw of power. The
project can create 300 million Yuan of direct economic benefits.

5. **Solution of the water pumping from the Yellow River and its cleaning.** The annual total discharge of the river is 30 billion cubic meters. The flow permission of Shanxi is four billion cubic meters. For Yuncheng city it is 700-800 million cubic meters. The present usage is only 200—250 million cubic meters with 500 million cubic meters of remaining volume. It shows a must for the solution of short water supply and cleaning.

6. **Straw methane generation project.** The project will utilize the straw, waste weed, excrement and urine of animals and human beings and garbage to process methane and generate. The residue can be processed to ecological manure. Methane volume from crop residue of 20000mu including wheat, maize and bean can meet the capacity demand of 1200kw generation units. It can generate 9.3 million kwh of power and produce 20,000T of ecological manure. There are 11.5 million mu of cropping area in Yuncheng including 9.4 million mu of grain crops. It can offer sufficient raw materials for the project.

7. **Urban horticulture and greening project.** In terms of the construction of a modern ecological city with rational urban layout the urban horticulture project will be constructed
including public green land, production green land, protection green land, residence green land, road green land and other auxiliary green land. It involves two circles of the salt lake ecological ring and scenic sites ring in the suburbs; one wedge of Fancun reservoir, Anyi reservoir and Bayi reservoir greening belt; multi corridors of the main street and both sides of Yaoxian trench; multi centers including all of the parks and gardens. After the project it will form scenic spots in the parks, greening zones in the streets, greening belts in the circles, forest and woods for overall view.

8. Urban sewage treatment project. It is calculated that the current urban sewage drainage volume is about 50000 cubic meters daily. The sewage includes living waste water and industrial polluted water. The sewage pipeline will cover 95% of the service area and the treatment rate will be 95%. The industrial waste water must be treated to qualified sewage standard before discharge to the sewage networks and other relative area. After treatment the treated water will be pumped to every park and garden by Yaoxian trench and main channel; then from the parks to the streets and gathers in Yanhu scenic trench to meet the demand of irrigation and urban greening.

In one word, the investment includes: according to the
land price and removing cost increment, it will take about five billion Yuan for the current Shenghui residence zone improvement of 3000mu including 1800mu of two million square meters of building area; in terms of urban layout, in the 15 residence zones of the city, zone-A and zone-E in the south, Zone-B in the north and Anyu-Yudu zone will be rebuilt. The total improvement and removement will be 15 billion Yuan; it will cost ten billion Yuan for the Shundiling zone construction in north of the expressway and express train station; it will invest ten billion Yuan for the widening of Jiefang avenue and other main streets. Waste water treatment, intermediate water treatment, garbage disposal, garbage generation plant, urban water supply, solar energy street lamps, unpolluted urban buses and greening belts and other public projects; it will need about ten billion Yuan for the construction and maintenance of Yuncheng salt lake scenic spot and Chinan cultural belt. Totally, the first stage of the urban construction will require 50 billion Yuan. It is about five billion Euro of investment.
说明

关于生态城市建设项目的立项与可行性分析事项，我们正积极与国家相关部门和规划设计院所进行合作，争取早日成文。

关于项目资金的筹措途径，一方面我们积极争取省和国家相关专项资金支持；另一方面根据市政府与德国国际企业家商会签订的合作备忘录精神，委托他们在国外积极寻找欧洲银行界的融资支持。

总之，从运城长远战略、可持续发展上，选择跨跃式的生态低碳经济发展之路，摆脱传统的高耗能外延式发展之路，不仅符合国际和国内当前总体发展趋势，更是运城经济社会发展的必由之路和发展方向。

我们谨以此简介，让大家了解运城，明白我们的选择，尽可能给予我们支持与关注。

我们不仅期待着这个庞大的生态城市项目落实和实施，更期待着一个青山绿水、生态低碳、经济社会和谐发展、人民生活品位大幅提升、历史文化旅游事业发达、区域中心城市地位不断提升的新运城展现在世人面前，以造福后代而不辜负历史与人民赋予我们的使命。
Remarks

For the project identification and feasibility analysis of the ecological city construction, we are cooperating with the administration departments and programming designing institutes.

As to the financing approaches, we are striving for the support of the relative special funds from the province and state; in the other hand, Germany International Enterprisers Association are being entrusted to find the financing support from the European banks according to the cooperation memorandum between the city government and the Associate.

In terms of long-term stratagem and sustainable development, it accords with the development trend home and abroad for the popularization of the low-carbon economy and breaking away from the traditional denotative development of high energy consumption. It is the only way and future orientation for Yuncheng social and economic development.

We hereby supplicate the society to understand Yuncheng and know our options to offer more concerns and support as best as you can.
We are not only expecting the implementation of the huge ecological city construction, but also a green, low-carbon and harmonious economic development. The local living quality and historic and cultural tourism industry will be improved. The status of modern central regional city will be upgrading to benefit the next generation and come up to the mission endowing by the history and the society.