



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CQM as an IQNet Partner hereby states that the organization:

Jiangsu Guoxin Union Energy Co.,Ltd.

Certification Add.: No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, P.R.China

Post code: 214203

for the following scope:

Jiangsu Guoxin Union Energy Co.,Ltd. Located at No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, with the production and related energy management activities of 2*135MW+12MW generator set thermal power, 450t/h steam supply, and annual output of 180 thousand tons of food additives (citric acid and sodium citrate)

For the accounting boundary for comprehensive energy consumption for unit output value of the products within the above certification scope to the attachment, This certificate is effective only using with attachment

has implemented and maintains a

Energy Management System

which fulfils the requirements of the following standard:

ISO 50001: 2011

Issued on: 2017-11-22

for the validity date, please refer to the original certificate issued by CQM*

Registration Number: CN-CQM17EN0079R0M



Michael Drechsel
President of IQNet

Ji XiaoDong
General Manager of CQM



IQNet Partners:**

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* This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

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Annex (1) to IQNet Certificate Number CN-CQM17EN0079R0M

Products Production/activities	Comprehensive energy consumption for per unit product(kgce/t)	Report Period	Certification Add.
The production of annual output of 180 thousand tons of food additives(citric acid and sodium citrate)	391.09kgce/t	From 2017 January to 2017 September	No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, P.R China
The thermal power of (2*135MW+12MW) generator set	The electricity supply standard coal consumption of whole factory: 293.11g/kwh	From 2017 January to 2017 September	No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, P.R China
The Steam supply of (2*135MW+12MW) generator set	The heat supply standard coal consumption: 38.26Kg/GJ	From 2017 January to 2017 September	No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, P.R China
The thermal power and Steam supply of (2*135MW+12MW) generator set	Integrated thermal efficiency: 60.1%	From 2017 January to 2017 September	No.1, Redian Road, Economic Development Zone, Yixing, Wuxi City, Jiangsu, P.R China

1. The energy consumption border of electricity and steam border

Two sets of HG-480/13.7-YM16 type boiler, One set of HG-220/9.8-YM10 type boiler, One set of HNG40/32/0 type steam turbine, Two sets of C135 - 13.24/0.981/535/535 type steam turbine, One set of QF-K12-2 type generator, Two sets of WX21Z - 085LLT type generator

The main production system: Including fuel systems, boilers, steam turbine, the electrical system, heat-supply system;

Assist production system: Including water treatment (circulating water, desalted water), dust removal system (desulfurization and denitration), air compressor system;

2. The energy consumption border of food additive (citric acid and sodium citrate)

The main production system: Using starch as raw materials, including the process of crushing, mixing, liquefaction, saccharification, filter, add strains fermentation, filtration, neutralization, filtration, acidolysis, filtration, ion exchange decolorization, concentration, crystallization, drying, etc.

Assist production system: Including air compressor system, sewage treatment, etc.

3. The energy consumption border of electricity and steam, food additive (citric acid and sodium citrate)

Affiliated production system: Including office, inspection, canteen, dormitory, bathroom, etc.

(This attachment is effective only using with home page)

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Michael Drechsel

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President of IQNet

Ji XiaoDong

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