



东莞电化IGCC项目介绍

INTRODUCTION OF DGPC IGCC PROJECT

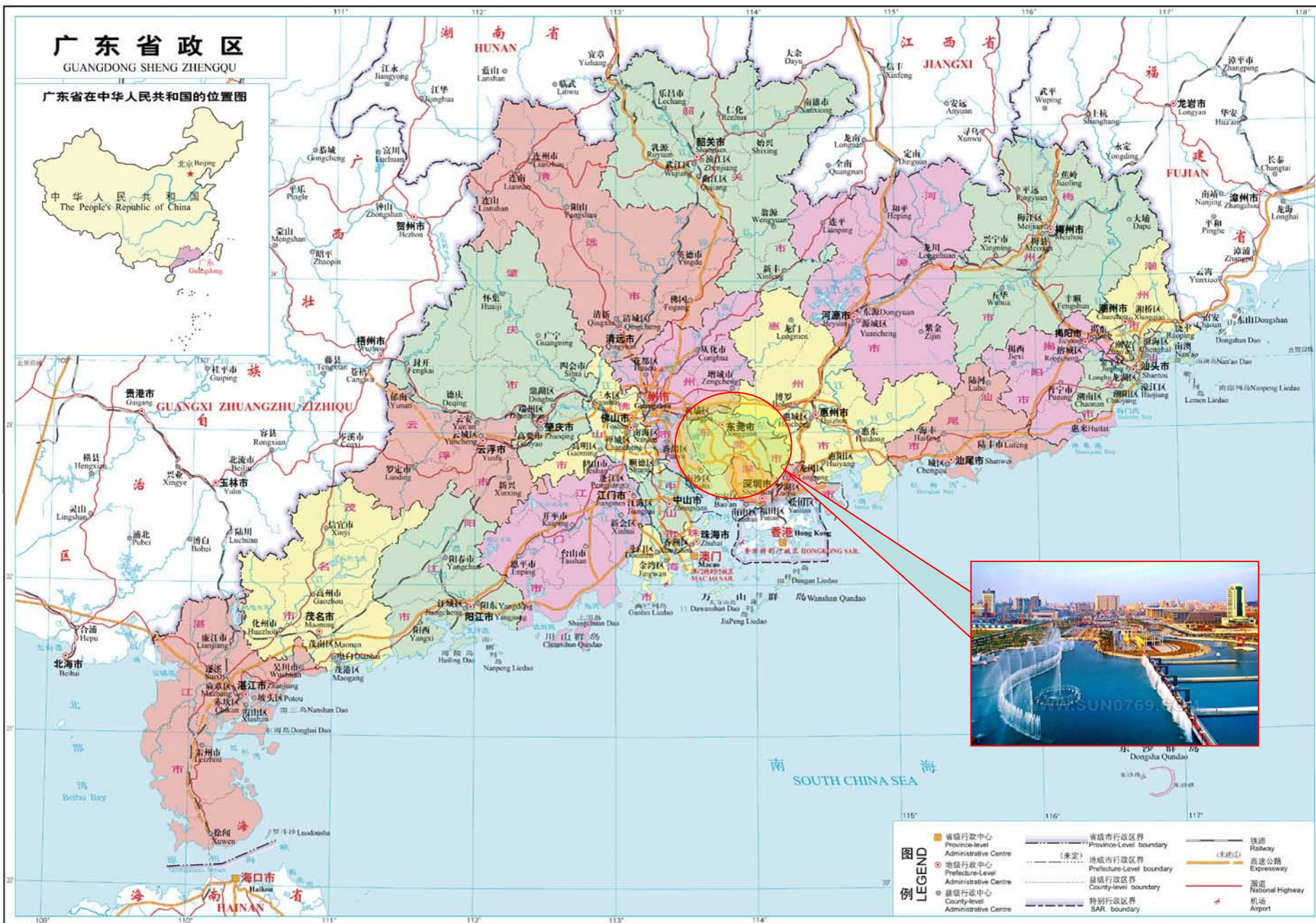
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17 APR 2009

广东省政区

GUANGDONG SHENG ZHENQU

广东省在中华人民共和国的位置图







公司简介 Company profile



东莞市电化实业集团公司办公大楼



电化集团工业区

东莞市电化实业集团公司是市属企业，由1983年创办的总资产仅为57万元的小型来料加工企业，发展成为一个以电力为主、装机容量88万千瓦、总资产46亿元的混合经济实体。公司自创立以来，先后荣获“广东省模范纳税企业”、银行AAA信誉单位、东莞市首届企业文化建设十佳单位、职工民主管理先进单位、工交企业金龙奖、经贸系统文明单位等多个荣誉称号。

面对二十一世纪的挑战，公司按照专业化、规模化的战略构想，坚持以电为主，大力发展环保电力，强化创新意识，积极推进各项改革，日臻完善管理制度，全力打造超百万千瓦级绿色能源发电基地，正迈向跨越式发展的快速轨道。

近年，电化集团发挥自身的技术优势和办电经验，通过外联合作方式，稳步推进环保电力规模。2003年9月，总投资4亿多元、装机容量12万千瓦的天明燃气电厂建成投产，开创东莞可用天然气为燃料的首家环保电厂建设纪录；2005年6月，总投资11.35亿元、装机容量30万千瓦的虎门电厂“以大压小”燃机技改工程竣工发电；2006年2月，投资13亿元、装机容量36万千瓦的通明“以大代小”燃气电厂工程投产发电；目前，经国家科技部批准，已正式获得“十一五”国家863计划先进能源技术领域，天明电厂120MW和洪梅200MW级IGCC系统示范与关键技术验证课题承担资格，相关筹备正在密锣紧鼓进行。在市政府的大力支持下，由电化公司以IGCC方式整合东莞部分燃油电厂，把电化拓展为大型电力集团的思路和可行性报告，也得到市政府有关部门的初步肯定。

展望未来，电化集团将紧紧抓住新一轮发展机遇，围绕东莞大力发展内源型经济，推进新型工业化的战略方向，坚持打基础、增后劲、抓项目、调结构、促发展，努力把电力做强做大，积极构建产业优势，力争三年内建成一个规模上、档次高、具影响力的超百万千瓦级绿色能源发电基地。

Dongguan Power & Chemical Industry Group is a city-governed company which is developed from a small processing company founded in 1983 with total asset as 570 thousands yuan to an integrated company with power as its main part. Total capacity is 880 MW and total assets amount to 4.6 billion yuan. It gained many titles for its accomplishment, e.g., Model Tax Payer in Guangdong Province, AAA credit in banking system, Top 10 Units of Best Company Culture Organization, Democracy Management Leading Units, Golden Dragon Award and Compliancy Leading Unit of Trade System.

Provided the challenges of 21st century, the company follows its strategy of getting professional and bigger and sticks to the power area. It exerts its ability to develop environment-friendly power, strengthen creativity and boost various reforms. We keep improving the management system and focus on building a million-level kilowatt green energy base. Now we are on a fast lane to our goal.

In recent years, P&C enlarges its environment friendly power size steadily with its own technology advantage and experience as well as coalition with outside companies. In September 2003, Tianming Gas Turbine Power Plant was put into use with total investment of 0.4 billion yuan and capacity of 120 MW. It is the first environment friendly plant using natural gas as its fuel. In June 2005, Humen Power Plant with capacity of 300 MW had finished its technology upgrade project with 1.135 billion yuan investment. In February 2006, Tongming Plant of 360 MW has finished its turbine engineering and was put into use, total investment 1.3 billion yuan. With National Scientific and Technology Department approval, it has obtained the qualification to illustrate and to undertake system technology assessment on 120MW-200MW-level IGCC system which is within the advanced energy technology area of 863-plan of the nation's 11th 5-year plan. The preparation is under intensive processing. Under the great help from government, the idea and feasibility report of combining some plants in Dongguan in the way of IGCC by P&C has got primary approval.

In the future, P&C will grasp new opportunities to develop inner resource economy in Dongguan. We will continue our strategy in industrialization development, persist to reinforce our foundation, increase our strength longevity, enhance project management, adjust structure and have power industry to be bigger and more competitive. We will actively build up our advantages and build a million-level green energy base in 3 years.





公司·结构
Company structure

东莞市电化实业集团公司
Dongguan Power and Chemical Industry Group

股东会
Board of Shareholders

董事会
Board of Directors

监事会
Supervisory Board

总经理
General Manager

策略发展部
Strategy Development Dept

秘书及人力资源部
Secretary and HR Dept

财务部
Financial Dept

办公室
Admin

财务结算中心
Financial accounting center

物料保障部
Material Dept

后勤事务部
Logistic Dept.

东莞升晖燃料有限公司
Dongguan Shenghui Fuel Co., Ltd.

东莞电化实业股份有限公司
Dongguan Power and Chemical Industry Holding Co., Ltd.

东莞天盈塑料管材有限公司
Dongguan Tianying Plastic Materials Co., Ltd.

东莞电化实业股份有限公司
Dongguan Power and Chemical Industry Holding Co., Ltd.

股东会
Board of Shareholders

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Admin

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Financial accounting center

物料保障部
Material Dept

后勤事务部
Logistic Dept.

东莞通明电力有限公司
Dongguan Tongming Power Co., Ltd.

东莞众明电力有限公司
Dongguan Zhongming Power Co., Ltd.

东莞虎门电厂
Dongguan Humen Power Plant

东莞天明电力有限公司
Dongguan Tianming Power Co., Ltd.

东莞丰明电力有限公司
Dongguan Fengming Power Co., Ltd.

东莞东华电力有限公司
Dongguan Donghua Power Co., Ltd.

东莞东生电力有限公司
Dongguan Dongsheng Power Co., Ltd.

东莞东电运输有限公司
Dongguan Dongdian Delivery Co., Ltd.





电力产业 POWER & CHEMICAL Industry GROUP LTD.

电·力·产·业 Power Industry

电化集团以电力产业为主导，目前总装机容量88万千瓦，控股的新型环保燃气电厂分别有通明（众明）电力有限公司36万千瓦燃气电厂、30万千瓦虎门电厂、天朗（丰明）电力有限公司12万千瓦燃气电厂；全资的内燃机电厂是东华（东生）电力有限公司10万千瓦柴油机组发电厂。

随着我国新一轮经济发展启动，电力需求进一步扩大，处于经济发展浪尖的东莞市，电力电量更是双缺，缺口很大。受当前国际政治格局影响，能源供应形势日益严峻，国际油价不断攀升，电化集团审时度势，超前决策，以强烈的前瞻意识，通过技术创新，在绿色能源方面寻找新的出路，着力“四大举措、两大开发”，全力打造超百万千瓦级绿色能源发电基地。

着力“四大举措”，就是面对油价高企、气源紧张的局面，结合各电厂实际，“一厂一策，稳步推进”，采取四大应对措施，逐步解决各电厂的替代燃料供给问题：一是通过油改气工程，对通明电厂实施LNG管输方式，计划与中石化公司合作，或实施国际贸易找气源，利用深圳大鹏公司LNG接收平台，供应通明电厂LNG22—35万吨。二是利用技术成熟先进、环保性能好、发电成本低的洁净煤发电技术，建设洁净煤制气项目，为天朗（丰明）电厂供气，以质优价廉的合成气替代燃油发电，目前经国家科技部批准，已获得“十一五”国家863计划天明电厂120兆瓦IGCC系统示范与关键技术验证课题承担资格，相关筹备正在紧锣密鼓进行。三是计划投资近5600万元，对虎门电厂进行油改气工程和储气罐建设，以满足LNG车运接收条件，气源主要由内蒙或四川LNG项目解决。四是待天明（丰明）电厂（IGCC）洁净煤发电成功改造后，结合市政府由电化公司以IGCC方式整合东莞部分燃油电厂的思路，根据东华电厂的场地及配套条件，拟同样运用（IGCC）洁净煤发电技术，对东华电厂进行“以大压小”技改，建造一台9E机组，实现创新发展。

着力推进LNG项目的开发筹建。LNG联合循环发电天然气洁净与联合循环效益于一身，经济和环保效益极高，基本实现零排放，具有发电效率高、机组启动快、调峰能力强、设备损耗小、燃料成本稳等优势，可大大提高电网运行质量和能源利用效率，完全符合国家构建资源节约型和环境友好型社会的要求。因此，要加快内蒙和四川两个合共40万吨LNG项目的建设进程，建立相对廉价的燃料供应基地，使燃气电厂早日用上天然气，冲出高价燃油的困境。

着力推进IGCC4×9E整体煤气化联合循环发电项目的开发。计划与国家有关部门、院所及知名企业合作，打造拥有自主知识产权的9EIGCC发电成套技术，和推进IGCC4×9E整体煤气化联合循环发电项目，列入国家“863”计划，并争取建成9E IGCC发电国家级示范工程，力争国家科技部科研基金支持，以及电价、税收等方面的政策优惠。该项目总投资56亿元，装机总容量800兆瓦，是采用200兆瓦级9E燃机的整体煤气化联合循环发电项目（简称IGCC发电）。项目选址在东莞洪梅太阳洲，占地700亩，燃料采用世界闻名的，位于越南北部湾，低灰、低磷、高密度、高热量的鸿基煤，利用已有的铁路、港口运输，以及麻涌新沙港5万吨级煤码头作中转，水陆交通十分便利。IGCC发电是当今国际上最引人注目的新型高效洁净煤发电技术之一，通过联合循环发电技术与煤炭气化、煤气净化技术的有机结合，实现电、热、甲醇、二甲醚或相关煤化工产品、液体燃料（可变柴油）、城市煤气等多联产，达到能源的高效利用，具有高效率、超洁净、节水、燃料成本低、适应性强、易于实现多联产等优点，具备延伸产业链，发展循环经济的技术优势，完全符合东莞打造生态绿城的发展战略。目前，已获得国家科技部“十一五”863计划先进能源技术领域“以煤气化为基础的多联产示范工程”重大项目课题承担资格，相关筹备正在紧张进行。

“四大举措、两大开发”成功实施后，集团的装机总容量至少在174万千瓦以上，电化的环保电力不仅实现跨越式发展，而且将迈向腾飞式的新里程！电化超百万千瓦级绿色能源发电基地，届时将可成功实现！





Covering 76,800 m², Dongguan Tongming (Zhongming) Power Co., Ltd is located in Fuzhu Mountain Liaobu Town of Dongguan. Total capacity is 360 MW and total investment is almost 1.3 billion. By two sets PG171E gas turbine engines of GE brand together with domestic furnaces, steam turbines and gas turbine generators, the company built two sets one-lead-one gas steam integrated cycle groups, with LNG as fuel. It was put into use in February 2006.

Tongming Power Plant began to use natural gas in August 2006 by oil gasification and LNG pipe-transmission. Besides, it also looks for LNG supply nationwide and worldwide actively since it has the LNG receiving platform. These actions solve the gas shortage significantly. Considering Dongguan's long-term demand on electricity, there is reservation for the future when the plant is founded. It planned to add a set of 180 MW engines and this means a lot given the shortage of Dongguan power supply. Meanwhile, it lays good foundation for its future development.



东莞通明电力有限公司
办公楼大堂



东莞通明电力有限公司
办公楼外景



东莞通明电力有限公司
2XS100E燃气联合循环
装机容量360MW



Dokuan Humen Power Plant is a joint venture of Hong Kong and Tianming(Fengming) Power Company; total investment reached 1 billion yuan. Covering 96,000 m², it is an environment friendly gas-steam integrated cycle plant with capacity of 300 MW. After its technology renovation, now it possesses 2 sets of 42 MW 6B gas turbine engines plus 18 MW steam turbine engines, it also has a set of 120 MW 9E gas turbine engines plus 60 MW steam turbine engines corresponded with 2 sets 6B and 1 set of 9E compulsory cycle leftover heat furnaces. In June 2005, the grids were integrated to deliver power. At present it is under construction of oil gasification project and gas tank construction so as to be qualified LNG truck delivery receiver and ensure fuel storage.

The company has strategically reserve rooms for a set of 9E engines for Phase II development.



东莞虎门电厂
燃机锅炉系统



东莞虎门电厂
办公楼大堂



Dongguan Tianming (Fengming) Power Co., Ltd. is a joint venture of Hong Kong and Mainland China. It is the first gas and steam integrated cycle power plant using natural gas as fuel. Covering over 30,000 m², the company locates in Industry Zone as part of P&C Group in Daojiao Dongguan; total investment reached 400 million yuan. The construction scale is 120 MW level, with 2 sets of 60 MW P G6 581B gas and steam integrated cycle engines. In September 2003, the grids were integrated to deliver power. With National Scientific and Technology Department approval, it obtained the qualification to illustrate and assess key technology of 120MW IGCC system. The preparation is under intensive processing. The plan is to finish clean coal gasification project for Tianming (Fengming) power generation. Annual clean mixed gas output is targeted at 700 million m³, in the future, oil will be replaced by gas and thus environment friendly power generation will be moving on to a new phase



东莞天明电力有限公司
2X66吨机联合循环
装机容量120MW





东莞东华(东生)电力有限公司 Dongguan Dongghua (Dongsheng) Power Co., Ltd.

东莞东华(东生)电力有限公司 座落电化集团工业区,总投资近6亿元,装机容量10.2万千瓦,拥有9台MAN18E40-45柴油
燃机,于1995年元月建成投产,不仅创下当时柴油发电机组电厂建设的东莞规模之最,而且是东莞“八五”能源重点工程之一,为东莞的经
济发展,为缓解东莞用电紧张局面作出了应有的贡献。

面对东莞日益增长的用电需求,该电厂将引入“绿色动力”概念,以IGCC技术实施“以大压小”技改,建造一台9E机组,再增环保电
力发展新篇章。



东莞东华电力有限公司
9XMAN18V40/45柴油
装机容量100MW

Located in Industry Zone, Donghua (Dongsheng) has total investment of 600 million yuan and capacity of 102 MW. Put into use
in January of 1995, it has 9 sets of MAN 18E40-45 diesel engines, which is the most in Dongguan regarding diesel engines
at that time. It is also one of the key energy projects of 8th 5-year plan of Dongguan. It contributes to the development of Dong
guan by solving the electricity shortage.

Since Dongguan has growing demand on electricity, the company introduced the concept of Green Power, renovated the
technology with IGCC and built a set of 9 E engines. It turns a new page of green power chapter.





东莞天盈塑料管材有限公司 Dongguan Tianying Plastic Pipe Co., Ltd.



东莞天盈塑料管材有限公司
是专业生产PE塑料管材及相应配件的现代化高新技术企业，年生产PE管材1.5万吨。

东莞天盈塑料管材有限公司，是电化集团公司控股的中外合资企业，注册资金2500万元，位于环境优美的园林式工业园区电化进宝工业区，毗邻广深高速公路出口，拥有得天独厚的交通便利优势。

该公司从欧洲全线引进国际上最先进的生产技术和生产线，采用进口专用压力管道材料，经过严格的质量控制和测试，生产“天盈”牌新一代环保型绿色管材。主要产品为聚乙烯燃气管和环保型聚乙烯给水管，管径范围DN16-Dn630。凭着先进的生产技术和严谨的生产态度以及产品自身优势，天盈管材在行业内取得了良好的声誉。

天盈理念：“以人为本，以市场为导向，服务社会，创造一流企业”。

天盈目标：“与社会共同成长，共同进步”。

Dongguan Plastic Pipe Co., Ltd. is a modern high-tech PE and its parts manufacturer with annual PE pipe output of 15,000 tons.

Dongguan Tianying Plastic Pipe is a joint-venture company of P&C and foreign entities; the registered capital is 25 million yuan. Located in gardenlike Jinbao Industry Zone. It is very close to Daojiao Exit of Guangzhou-Shenzhen Express, so the traffic is very convenient.

The company introduced the most advanced technologies and assembling lines and use imported materials to manufacture pressure pipes. Its product Tianying pipes, which are polythene gas pipe and polythene water pipe, are a new type environment friendly pipe made under strict quality control and test. The nozzle diameter of the products ranges from DN16-DN630. With advanced manufacturing technology, serious attitude and the predominance of the product, Tianying gains good reputation in the industry.

The faith: Be human-oriented, market-directed, society-based and build a first class company.

The target: Grow with the society.

Dongguan Dongdian Delivery Co., Ltd.

东莞东电运输有限公司



东莞市东电运输有限公司 位于道滘电化工业区，具有独立法人资格，创办于2004年11月，是东莞市首家水陆危险品运输企业，注册资金800多万元，目前拥有单程水陆危险品运输能力4650多吨，其中散重千吨和三百吨级油船各3艘、25吨油车10辆。2005年4月，该公司经省交通厅批准获港澳航线经营权，其中“东电08”船获准靠泊香港埃克森美孚公司油码头作业；2005年6月，正式通过广东海事局的安管理体系审查，获颁NSM管理规则证书。该公司将以“保障航运安全、保护水域环境、保障员工健康、保持企业发展”的“五保方针”为指引，以管理规范化、运输专业化的全新形象，面向社会，面向市场，迎风击浪，启锚远航，走出一条属于自己的闪亮航道。

Dongguan Dongdian Delivery Co., Ltd.: Located in P&C industry zone in Daojiao with independent legal representative. Founded in November 2004, it is the first logistic company for dangerous stuff by sea or road. The registered capital is over 8 million and the capacity for single trip is 4,650 tons. It had 3 thousand-ton oil tankers and 3 of 300-ton level; 10 oil truck of 25 tons. In April 2005, the company was granted Hong Kong and Macau marine line. Vessel Dongdian 08 is certified to berth at the Exxon Terminal in Hong Kong. In June 2005, the company passed the security management system evaluation of Guangdong Marine Bureau and received NSM certificate. The company is working on its way to greater success with its standardized management and professional delivery guided by its 4-point principles, i.e., Ensure delivery safety, protect water environment, safeguard staff health and keep developing the company.





承担国家高技术研究发展计划 (863) IGCC项目介绍

Introduction of the IGCC Project-One of the demonstration project in National High Technology Research & Development Program(863 plan)

- 天明电厂120MW IGCC

Tian Ming 120MW IGCC Project

- 太阳洲4×200MWIGCC

Sun State 4x200MW IGCC Project



选择IGCC原因 Why we choose IGCC

◆ 国内能源资源格局

For the domestic energy recourse status

- “两少一多”——油少、气少、煤多

Less gas and petrol resource , and rich of coal resource

◆ 环境因素制约

For the environmental restriction

- 环保标准提高

The Criterion of environmental protection has increased



选择IGCC原因 Why we choose IGCC

◆ 气候安全 For the climate

- 减少温室气体排放 to reduce the emission of greenhouse gas

◆ 能源安全 For stable energy supply

- 以煤为原料，对外依存度低 to reduce the dependency of foreign energy

◆ 促进经济繁荣 For the economy

- 保障负荷中心电力供应 to ensure the supply of electricity in the center area
- 多联产，带动经济发展 taking advantage of IGCC multi production, and boost the economic growth



承担863计划 Our role in the national 863 plan

- ◆ 是“十一五”国家863计划三个IGCC示范工程之一

The project is one of the three IGCC demonstration project in the national 863 plan

- 华能集团——天津，1套200MW级IGCC，采用干煤粉两段炉气化技术

Hua Neng Group – Tian Jing, 200MW IGCC program, to adopt the dry coal-pulverized two sections gasified technology

- 华电集团——杭州，1套200MW级IGCC，采用水煤浆四喷嘴气化技术

Hua Dian Group – Hang Zhou, 200MW IGCC program, to adopt the coal slurry four injectors gasified technology



承担863计划 Our role in the national 863 plan

· 东莞电化——东莞，120MW 和 4×200MW 级 IGCC，

Our Group – Dong guan, 120MW & 4x200MW IGCC program



承担863计划 Our role in the national 863 plan

- 改造120MWIGCC——东莞天明电厂
To reconstruct the TMEP plant and set up the 120MW IGCC plant
- 新建4×200MW级IGCC——东莞太阳洲
To build a new 4x200MW IGCC power plant in Sun State , Dongguan
- 总装机容量共920MW
With total capacity volume of 920 MW



承担863计划 Our role in the national 863 plan

◆ 燃料灵活气化技术更适合我国

Fuel flexible gasification technology is more suitable for our country

- 第三代煤气化技术

The third generation of the gasified technology

- 煤种适应广

For the multi adaptation of the coal recourse

- 效率、环保等性能优越

For the superior performance in terms of efficiency and environmental friendly



产学研合作 Cooperation of study, producing and researching

课题依托单位 The Main parts

- 东莞电化实业股份有限公司 The EPCI Group

协作单位 The supporting parts

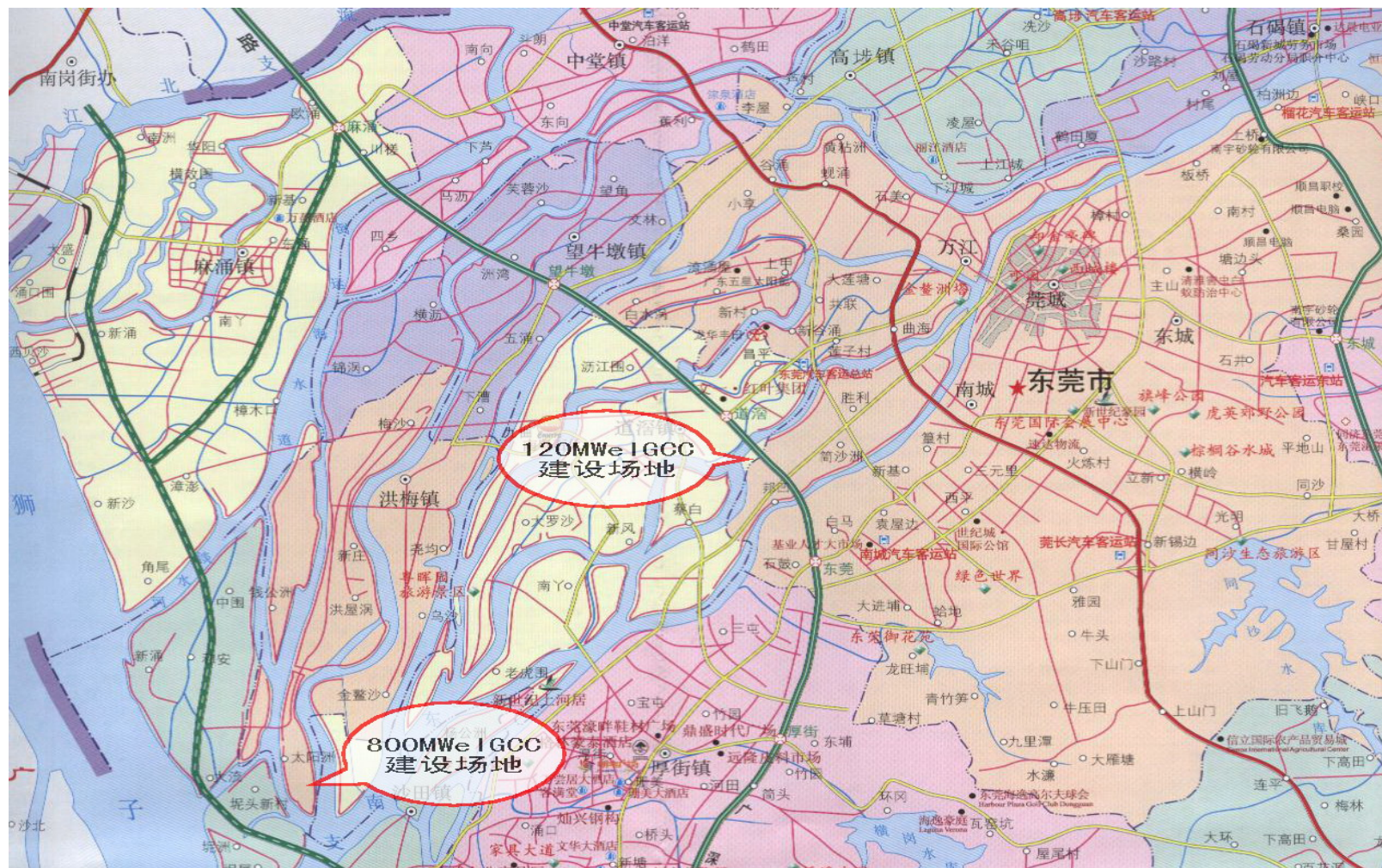
- 中国科学院工程热物理研究所 The CAS IET
- 东华工程科技股份有限公司 The ECEC
- 南京汽轮电机（集团）有限责任公司 The NTC
- 东南大学 Southeast University
- 国家电站燃烧工程技术研究中心 The NPCC



工程概况 General of the project

厂区地理位置

Geographic place of the project



● 天明IGCC示范工程建设场址

Location of Tian Ming IGCC Project

规划气化岛区
Gasification Island

东华电厂
Dong Hua Power Plant

天明2×6B机组
Tian Ming 2x6B Turbines



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● 太阳洲IGCC示范工程建设场址

Location of Sun State IGCC Project



A satellite map showing a large green rectangular area outlined in green, representing the project site. A white arrow points from the text box to this area. The surrounding landscape includes fields, a river, and some industrial structures. A compass rose is in the top right corner.

4×200MW IGCC项目选址
太阳洲700亩用地
46.7 hm² aera for Sun State project

拟建3000吨级码头
Planned to build a quay with capacity of 3000T

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Image © 2006

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Pointer 22°55'36.83" N 113°35'44.75" E elev 1 m

Streaming 51%

Eye alt 1.55 km



工程概况 General of the project

厂区效果图

Effect drawing of the project

东莞电化4X200MWe级 IGCC新建工程

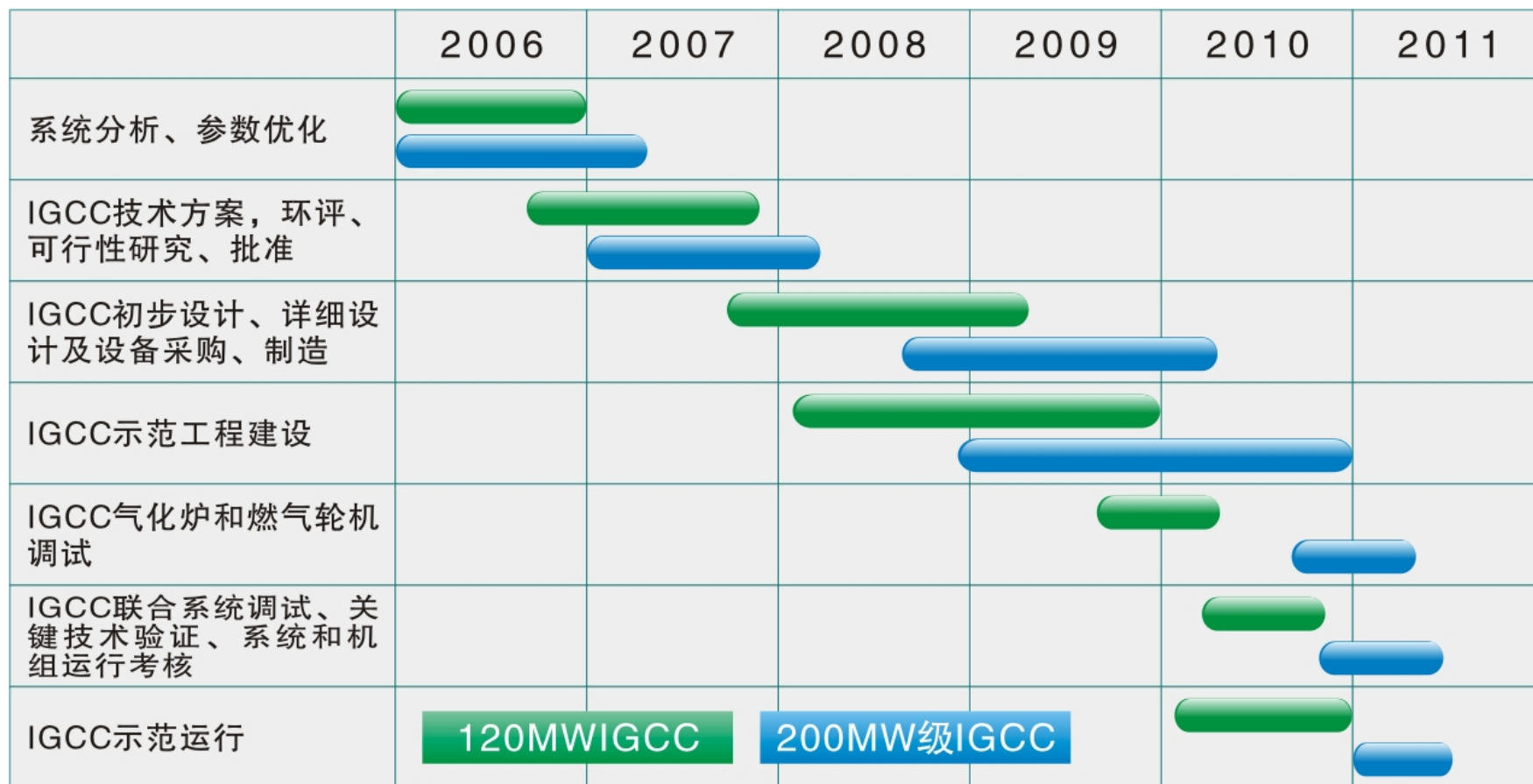


东北电力设计院



工程概况 General of the project

工程进度表 Schedule of the project





项目进展 Present Status of the project

- ◆ 2007年3月，IGCC课题通过国家863计划立项
In May, 2007, The application was granted
- ◆ 2007年6月，成立工程筹建处
In June, 2007, The engineering department of this project was established
- ◆ 2008年1月，4×200MW IGCC示范工程可研审查
IN Jan., 2008, The Feasibility Study of the 4×200MW project was under authorized



项目进展 Present Status of the project

- ◆ 目前120MW IGCC项目已办完全部许可手续，并已动工建设

Currently the Tian Ming 120MW IGCC project has got all government approvals and has commenced

- ◆ 4×200MW IGCC项目正在办理工程核准手续
Sun State project is now applying for government's approval



两个IGCC项目及投资 Investment of the project

项目	类别	装机容量	预算总投资(RMB)
天明IGCC	改造	120 MW	4.5亿元
洪梅IGCC	新建	800 MW	60亿元
合计		920 MW	64.5亿元

Project	Type	Capacity	Estimated Investment (RMB, million)
Tian Ming	Retrofit	120 MW	450
Sun State	Greenfield	800 MW	6000
Total		920 MW	6450



东莞发展IGCC展望 Expectation for IGCC in Dong Guan

- ◆ 每个示范电厂设计预留发展联产和二氧化碳 (CO₂) 捕集与封存 (CCS)

To further develop the IGCC combine-production and to realize the CO₂ capture and CCS in each power plant

- ◆ 作为中科院科研项目依托工程,打造国家IGCC研发基地

To play the role of the relying engineering centre for CAS, and setup the IGCC R&D center in China



东莞发展IGCC展望 Expectation for IGCC in Dong Guan

- ◆ 依托中科院技术支撑,中科院、东莞市政府和我司拟在东莞共建“**中国科学院东莞IGCC试验与示范基地**”,研发关键技术,包括二氧化碳捕集与封存 (CCS)、燃料电池、多联产等等

We plan to set up the *CAS-DG IGCC Demonstration Base* in cooperation with CAS, and develop the key technology including CO₂ capture, CCS , fuel cell, multi production and so on



东莞发展IGCC展望 Expectation for IGCC in Dong Guan

- ◆ 整合和改造本地柴油发电机组，支持东莞建设
To conform and to reconstruct the local diesel power plant, and support the local environmental construction
- ◆ 自主研发IGCC关键技术，创造中国发展IGCC范式
To development the key IGCC technique, and setup the Chinese demonstration IGCC pattern



合作前景 Foreground for Cooperation

- ◆ 我司与中科院进行全面的技术合作，打造国内IGCC摇篮
We'll cooperate with CAS and build the IGCC cradle in China
- ◆ 在开发新技术保证能源安全、气候安全和经济繁荣方面，美国与中国有着共同的战略利益
We share the same targets in fields of energy safety, climate safety, and economic prosperity in USA and China



愿与国际合作，为建设环境友好型、
资源节约型社会作最大贡献！

We're willing to cooperate with the international institutions, to
make great effort to build the harmony, and sustainable society

谢谢大家！

Thank you very much