



**上海碧科清洁能源技术有限公司**  
Shanghai Bi Ke Clean Energy Technology Co., Ltd.



Innovative Technology and Value Added Business Development



上海碧科清洁能源技术有限公司  
Shanghai Bi Ke Clean Energy Technology Co., Ltd  
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CECC – who we are

Our Capabilities

Our Business Model

Our Technology Portfolio

Gas Value Chain Project Development

A Young Company with a track record of progress

Our leadership team

Our Values



Shanghai Bi Ke Clean Energy Technology Co., Ltd. “the CECC” is a Chinese chemical process technology commercialization and licensing start-up company with a distinctive portfolio of technologies that plays into the growing gas and syngas to chemicals and fuels markets.

Our target customers are successful global companies and investors in the chemicals, gas, coal, and oil sectors.

CECC’s business is built on two major product offerings:

Licensing of a distinctive technology portfolio to convert low cost resources (gas and coal) to higher-valued products, normally derived from and priced off crude oil;

Delivering “value added services” via distinctive project development solutions built on our core technology to low cost resource owners (gas and coal) to unlock their asset value.



### Technology, Engineering & Commercialization

*Integrated Solutions & Value-Added Business for a better future*

上海碧科清洁能源技术有限公司  
SHANGHAI BI KE CLEAN ENERGY TECHNOLOGY CO., LTD.



Our company is a 51:49% partnership between the Chinese Academy of Science (CAS) and BP.

## Capabilities 才能优势



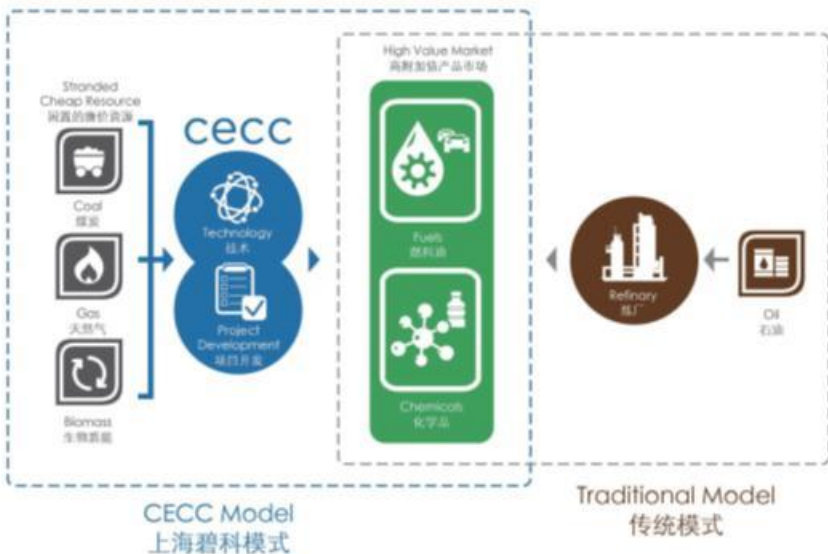
我们拥有经验丰富的技术和工程团队。在技术开发、工艺放大、技术商业化、催化进程知识产创建、项目概念构建和高品质的工艺包设计方面具有很强的性能。

Our experienced technology and engineering team are skilled in technology developments, scale-up, and commercialization, including critical creation of strong IP for catalytic processes, project concepts and high-quality PDP designs.

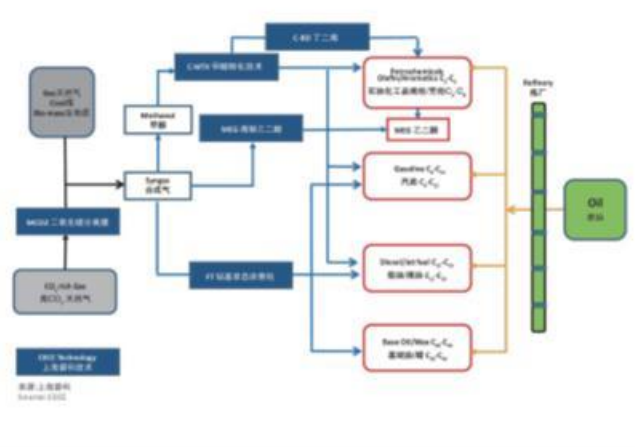
我们拥有经验丰富的商务团队，利用市场情报来制定我们的技术战略，确定潜在客户，建立合作伙伴关系，并推广具有核心技术的创新概念的项目。

Our experienced business origination team uses market intelligence to shape our technology strategy, identify potential customers, create tactical partnerships and promote innovative project concepts that have CECC technologies at their core.

## Business model -focused on gas & coal value chains 商业模式



## CECC Technology Overview 技术概览



## Technology Portfolio -focused on gas & coal value chains



- C-MTX** 甲醇转化技术，C-MTX是一种独特的甲醇转化成更高附加值产品的甲醇转化技术。比其宽和了煤。  
C-MTX is a methanol conversion process that could convert the methanol to high value-added fuels, such as propylene and butylene.
- C-BD** 第一个采用了煤裂解生成了二烯烃的技术。其中二烯烃是一个高价值产品。  
C-BD technology of CECC is a unique generation process which could convert fuelgas into a high value refined product -- butadiene.
- MEG** 乙二醇的连续生产。  
Technology portfolio of CECC is a unique generation process which could convert fuelgas into a high value refined product -- butadiene.
- MCO2** 甲醇和二氧化碳的循环利用。  
Technology portfolio of CECC is a unique generation process which could convert fuelgas into a high value refined product -- butadiene.
- FT** 费托合成，费托的费托技术可以利用合成气来生产运输油品，比如石脑油、柴油、煤油和润滑油。  
Fischer-Tropsch process of CECC could utilize synthesis gas to produce base oils, such as naphtha, diesel, kerosene, lubricant oil.



# GTX Value Chain Project

## GTX 产业链项目

**下游MTX项目 Downstream MTX**



天然气—煤矿产能签约仪式  
签约仪式

初步确认沿海地区的3个场址，与当地政府签署合作谅解备忘录并与下游客户签署购气采购协议。

Identified 3 potential sites in coastal areas, signed collaboration MoUs respectively with the local governments and signed substantial amount of Odefin Off-take Agreements with downstream customers

**上游GTM项目 Upstream GTM**

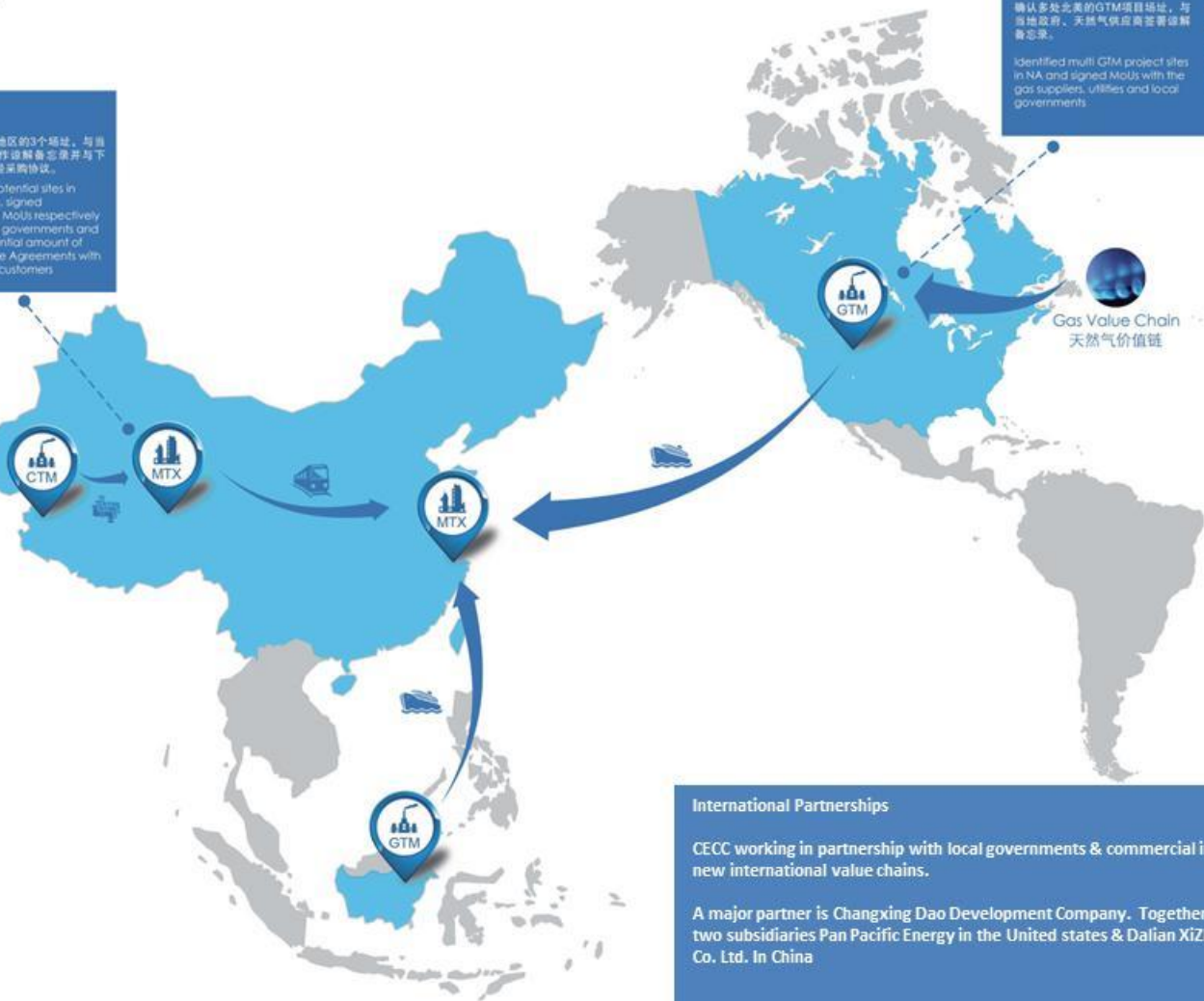
确认多处北美的GTM项目场址，与当地政府、天然气供应商签署谅解备忘录。



Identified multi GTM project sites in NA and signed MoUs with the gas suppliers, utilities and local governments

  
Coal Value Chain  
煤炭价值链

  
Gas Value Chain  
天然气价值链



**International Partnerships**

CECC working in partnership with local governments & commercial investors to create new international value chains.

A major partner is Changxing Dao Development Company. Together we have created two subsidiaries Pan Pacific Energy in the United States & Dalian XiZhong Island Storage Co. Ltd. In China





A Young Company with a track record of progress

大事记

# DEVELOPMENT COURSE

历史，见证着我们的脚步！



2008.01

在中国总理温家宝及美国首相James Gordon Brown见证下，中科院副院长和与美国区总督Gary Dirk 签署合资公司框架协议。

Premier Wen Jiabao and British Prime Minister Gordon Brown witnessed the signing of CECC Joint Venture Framework Agreement by VP of CAS Yin Hejun and President of BP China Gary Dirk.



2009.03

中科院副院长江绵驹、BP执行副总裁Ian Conn、上海市委常委浦东新区区委书记陈良安和法国巴黎埃博卡琳女士出席上海燃料清洁能源技术有限公司开业典礼并致辞。

VP of CAS Jiang Mianju, Chief Executive of Refining & Marketing BP Ian Conn and others attended the opening ceremony of Shanghai & Ke Clean Energy Company Limited.



2012.07

上海燃料总经理曹小磊与浦东新区开发管理委员会签署MTO项目合作框架协议。

Simon Zhang, GM of CECC, signed MTO Project Framework with Zhufu Coosongang Economic Zone Management Committee.



2012.11

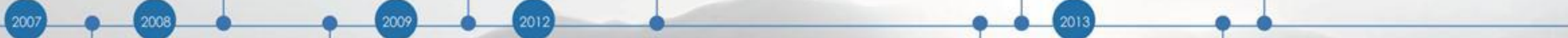
BP集团炼油与营销业务首席执行官 Conn 参观上海燃料，并表示将对上海燃料的发展给与更大的支持。

Ian Conn, Chief Executive of BP Refining and Marketing, and executive member of the BP board of directors, visited CECC and pledged to give strong support CECC's development.

2013.07

新型天然气——炼化产业链项目合作协议由浦东新区区长与上海燃料清洁能源技术有限公司在大连签署。

July 28th, the "New GTD Value Chain Project Development Collaboration Agreement" was signed in Dalian between Dalian Changsheng Island Industrial Zone Administrative Committee and Shanghai & Ke Clean Energy Technology Co., Ltd.



2007.08

中科院副院长江绵驹与BP集团炼油与营销业务首席执行官Ian Conn 签署建立合资公司谅解备忘录。

VP of CAS Jiang Mianju and Chief Executive of Refining & Marketing BP Ian Conn signed the MOU for the establishment of CECC Joint Venture.



2008.11

中科院副院长李静海与BP集团炼油与营销业务首席执行官Ian Conn 签署合资公司合作谅解备忘录及技术发展路线图协议。

VP of CAS Li Jinghai and Chief Executive of Refining & Marketing BP Ian Conn Signed the CECC Joint Venture Contract.



2012.07

上海燃料与浦东新区开发管理委员会签署MTO项目合作框架协议。

MTO Framework Agreement between CECC and Coosang Economic Zone.



2013.05

中科院副院长江绵驹院士出席上海燃料第十二届董事会正式会议并担任会议主席，与董事会分享他对全球能源发展的看法。

Dr. Jiang Mianju, President of Chinese Academy of Sciences Shanghai Branch, attended 12th CECC Board Meeting before the meeting officially started. Jiang He thought about global energy outlook with the directors.



## CECC Leadership



### Zhang, Simon – General Manager

Prior to CECC, Simon held a wide range of leadership roles in BP including Solar Global VP, Strategic Alliances, Chief of Staff of BP Global Chemicals; Deputy CFO of BP-Sinopec Retail JV in Zhejiang, China. Simon received his Chemical Engineering degrees from Tsinghua (BS), Purdue (MS), and Wisconsin (PhD) and MBA from Chicago. He is also a CFA holder.



### Wu Ming – Deputy General Manager

Before joining CECC, Wu Ming worked as Head of DICI's IP Office as well as Head of The National Engineering Research Centre of Membrane Technology and was the GM of Tianbang Membrane Company. Wu Ming received his PhD at DICI and has published over 60 papers/patents.



### Luo Yanning – Engineering Director

Yanning has over 25 years of industry experience, including over 10 years BP experience in project management and engineering. Prior to joining CECC, Yanning worked as a project director for BP Zhuhai PTA Plant and was engaged in the PTA 1st and 2nd stage project management.



CECC Information Inserts



## Our Values

**We are one team and accomplish more together.**

**We aim for distinctive technical and business solutions.**

**We strive for excellence and continuous improvement**

**We value diversity of people, thought and personality.**

**We respect our people's rights, our responsibilities, and the law.**

**We are committed to ensuring the health, safety and security of our employees & partners as well as protecting the environment.**

