

2019

中国煤/合成气制烯烃大会

China Coal/Syngas to Olefins Conference

10.30-31 太原 Taiyuan



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会议背景

2019年，国际地缘政治与中美贸易关系紧张，加剧了油价波动风险。中国煤炭产能释放，价格稳中有降，煤制烯烃(CTO)成本优势进一步扩大。甲醇价格走弱，甲醇制烯烃(MTO)生产企业利润渐好。

亚化咨询研究显示，2019上半年，22个已投产的CTO/MTO项目中，除去个别长期停车项目，大部分满负荷甚至超负荷运行，平均负荷为100%。经测算，吨聚烯烃平均营业利润为690元。过去几个月中，2个MTO项目投产。目前仍有40个CTO/MTO项目正在推进，合计烯烃产能2236万吨。2020年底前，有9个项目，逾400万吨产能等待释放。

新技术方兴未艾，产业化步伐加快。相较传统CTO，合成气直接制烯烃(FTO)省略了甲醇合成这一中间过程，具有流程更短、能耗更低的优势。中科院大连化学物理研究所、中科院上海高等研究院、北京石油化工学院等FTO技术都完成了实验室研究，潞安集团、延长中煤、中煤榆林等分别将实施中试项目。此外，大连化物所刘中民院士团队的煤基乙醇(DMTE)制乙烯技术，和DMTO相比，也显示出独特的竞争力。

2019中国煤/合成气制烯烃大会将于10月30-31日在山西太原召开。会议将探讨中国烯烃产业政策和产业链前景；CTO/FTO/DMTE项目规划趋势；FTO技术开发、工业化进程与前景；DMTE技术与经济；不同路线烯烃竞争力比较；工艺与催化剂技术提升；下游高端化发展趋势；空分、煤气化、合成气净化最新技术；副产品高价值利用和环保问题等。会议还将安排**考察潞安煤基合成气制化学品基地**。

会议主题

1. 中国烯烃产业政策和产业链前景
2. CTO/FTO/DMTE：烯烃产能扩张趋势2019-2024
3. 新油价下CTO/FTO/DMTE制烯烃项目聚焦
4. FTO与DMTE技术开发、工业化进程与前景
5. 煤基乙醇(DMTE)制乙烯技术的技术经济
6. CTO/FTO/MTO/DMTE与PDH、乙烷裂解、炼化一体化竞争力比较
7. 运营优化与智能工厂
8. 下游高端产品规划与C4-C6副产品高价值利用
9. 聚烯烃工艺与催化剂
10. 空分、煤气化、合成气净化最新技术
11. 项目环评与环保解决方案
12. 工业参观与考察

日程安排

2019年10月30日	09:00-17:00	工业参观
2019年10月31日	08:00-09:00	会前注册
	09:00-12:00	演讲报告
	12:00-14:00	自助午餐与交流
	14:00-18:00	演讲报告
	18:00-20:00	招待晚宴

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Background

In 2019, international geopolitics turmoil, tension trade relations between China and the US aggravated the risk of oil price fluctuations. China's coal price has stabilized and declined with the high quality capacity release, which lead to the further expansion of coal to olefins (CTO) cost advantage. Profit of methanol to olefin (MTO) has improved due to low and medium methanol prices.

ASIACHEM studies shows that, in H1 2019, among 22 commercialized CTO/MTO projects, except for several long-term parking projects, most of which operated full or even overloaded, with an average load of 100%. It is estimated that, the average operating profit of polyolefin was 690CNY/t. In the past few months, two MTO projects have been put into production. There are still 40 CTO/MTO projects underway, with a total olefin capacity of 22.36Mt. Before the end of 2020, there are 9 projects with more than 4Mt of capacity in total will be released.

Compared with traditional CTO, syngas direct to olefins (FTO) omits the intermediate process of methanol synthesis, which has the advantages of shorter process and lower energy consumption. FTO technologies of the DICP, Shanghai Advanced Research Institute, Beijing Institute of Petrochemical Technology, etc. have completed laboratory research, respectively. The Lu'an Group, Yanchang ChinaCoal, and ChinaCoal Yulin will implement pilot projects. In addition, the syngas-based ethanol to ethylene (DMTE) technology of DICP has also shown unique competitiveness compared with DMTO.

China Coal/Syngas to Olefins Conference 2019 will be organized by ASIACHEM on Oct. 30-31 in Taiyuan, Shanxi. The upcoming event will discuss China's olefin industry policy and prospects; CTO/FTO/DMTE projects planning; FTO & DMTE technologies & industrialization; Different routes competitiveness comparison; Process and catalyst technologies upgrading; high-end products, Air separation, coal gasification, syngas purification latest technologies; By-products high-value utilization and environmental issues. Industrial visit to Lu'an coal-based syngas to chemicals plant will be arranged.

Topics

1. China's olefin industry policy and industrial prospects
2. CTO/FTO/DMTE: olefin capacity expansion 2019-2024
3. Focus on CTO/FTO/DMTE projects under the new oil price background
4. FTO technical development, industrialization and prospects
5. DMTE technologies and economics
6. Competitiveness comparison: CTO/FTO/MTO/DMTE, PDH, ethane cracking, refining & chemical integration
7. Operation optimization and smart plant
8. Downstream and C4-C6 by-products high value utilization
9. Polyolefin process and catalysts
10. Air separation, coal gasification and syngas purification latest technology
11. Project environmental assessment & solutions
12. Industrial visits to Lu'an Syngas to chemicals plant

Preliminary Agenda

- Oct. 30** 09:00-16:00 Industrial Visiting
- Oct. 31** 08:00-09:00 Pre-conference Registration
09:00-12:00 Speech
12:00-14:00 Networking Lunch
14:00-18:00 Speech
18:00-20:00 Banquet