

第十届煤制乙二醇技术经济研讨会

10th Coal to MEG Conference **2019**

--CTMEG 装置如何持续提升竞争力与盈利能力?

-- How to improve the Competitiveness and Profit of CTMEG Plant Continuously?

4月25-26日

云南 昆明

Kunming Yunnan



主办方
Organizer



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会议背景

2018年中国乙二醇消费量继续增长，全年净进口量约1000万吨，产量超过720万吨，其中1/3为煤(合成气)制乙二醇。2018年12月，乙二醇期货在大连商品交易所挂牌上市。亚化咨询数据显示，煤制乙二醇已经大规模应用于聚酯化纤行业，成为中国乙二醇产能的重要组成部分。2019年初，中国已投产22个煤(合成气)制乙二醇项目，产能总计448万吨/年。

中国已投产煤制乙二醇项目已经普遍实现了高负荷稳定运行。在良好的市场前景、可获得的成熟技术和适中的投资门槛等因素的驱动下，中国煤制乙二醇项目投资加速。亚化咨询研究表明，2019-2021三年间中国将新建成33个煤(合成气)制乙二醇项目总计947万吨产能，中国煤制乙二醇总产能将增至1395万吨/年。

尽管中国煤制乙二醇行业发展迅猛，但也面临一系列挑战。随着国际油价下行，对于合成气草酸酯路线煤制乙二醇，其他技术路线——石脑油裂解乙烯制乙二醇路线、MTO乙二醇路线，以及乙烷裂解乙烯制乙二醇路线都将是强劲的竞争对手。在此背景下，如何持续提升CTMEG装置的竞争力与盈利能力是行业发展的关键。

草酸酯路线煤制乙二醇的技术研发正在向大型化、低成本、高选择性、长催化剂寿命和环境友好的方向发展。此外，合成气草酸酯高价值下游产品如可降解塑料聚乙醇酸(PGA)、乙醇、碳酸二苯酯(DPC)等的研发与应用也在积极推进。与此同时，新型甲醇-甲醛路线煤制乙二醇技术正在开始工业化，2018年9月，庄信万丰和伊士曼化学公司将该技术授权给久泰，用于100万吨/年煤基乙二醇装置。

第十届煤制乙二醇技术经济研讨会将于2019年4月25-26日在云南昆明召开。会议将探讨乙二醇供需展望与煤制乙二醇产能预测，草酸酯路线煤制乙二醇技术优化与工艺升级，煤基乙二醇在聚酯行业的应用经验，全新甲醇-甲醛路线煤制乙二醇技术优势分析，乙二醇期货市场的行业影响，合成气草酸酯高价值下游产品，甲醇一步法制乙二醇与CO₂制乙二醇技术研发与工业化应用等。

日程安排

2019年4月24日 周三

16:00-21:00 会议报到注册

2019年4月25日 周四

08:00-09:00 会议签到

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

2019年4月26日 周五

08:30-12:30 演讲报告

12:30-13:30 自助午餐与交流

13:30-18:00 商务考察

会议主题

1. 全球与中国聚酯/乙二醇供需展望
2. 煤制乙二醇新项目投资与产能预测
3. 草酸酯路线煤制乙二醇技术优化与工艺升级
4. 乙二醇期货运行分析与煤基乙二醇未来机遇
5. 煤制乙二醇反应器大型化与应用
6. 煤制乙二醇催化剂升级与催化剂回收利用
7. 全新甲醇-甲醛路线煤制乙二醇技术优势分析
8. 煤制乙二醇产品精制与分离工艺
9. 提升煤制乙二醇装置盈利能力的综合思路
10. 煤基乙二醇在聚酯化纤行业的应用经验
11. 合成气草酸酯高价值下游产品——PGA/乙醇/DPC
12. 煤制乙二醇项目的环境保护与水处理
13. CO和H₂分离与净化方案
14. 甲醇一步法制乙二醇技术研究
15. CO₂制乙二醇技术研发与工业化应用



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Background

In 2018, China's MEG consumption continued to grow, net import was about 10Mt, and the output exceeded 7.2Mt, of which 1/3 output was from coal (syngas) to MEG. In December 2018, MEG futures were listed on the Dalian Commodity Exchange. ASIACHEM's research shows that, coal-based MEG has been widely used in the PET industry and has become an important component of China's MEG production. In early 2019, China's 22 CTMEG projects have been put into production, with a total capacity of 4.48Mt.

China's CTMEG plants have generally achieved high load and stable operation. Driven by good market prospects, available proven technologies and modest investment thresholds, the investment in China's CTMEG project is accelerating. ASIACHEM's research shows that, in the three years from 2019 to 2021, China will build 33 new CTMEG projects with a total capacity of 9.47Mt. The total CTMEG capacity will increase to 13.95Mt.

Despite the rapid development of China's CTMEG industry, it faces a series of challenges. With the international oil price down, the syngas via DMO route CTMEG faces strong competitors in other technical routes, including naphtha cracking ethylene to MEG route, MTO ethylene to MEG route, and ethane cracking ethylene to MEG route. At this background, how to continuously improve the competitiveness and profitability of CTMEG plant is the key to the industry development.

The technology development of DMO route is developing toward large-scale, low-cost, high-selectivity, long catalyst life and environmental friendliness.

In addition, the development and application of high-value downstream products of DMO route such as degradable plastic polyglycolic acid (PGA), ethanol, and diphenyl carbonate (DPC) are also actively promoted. At the same time, the new methanol-formaldehyde route of CTMEG technology is beginning to be industrialized. In September 2018, Johnson Matthey and Eastman licensed the technology to Jiutai Group for 1 Mt/a coal to MEG unit.

10th Coal to MEG Conference will be held on April 25-26, 2019 in Kunming, Yunnan, China. The conference will focus on prospect of MEG supply and demand & prediction of coal-based MEG capacity, optimization and process upgrade of DMO route CTMEG technology, CTMEG application experience in PET industry, advantages of new methanol-formaldehyde route CTMEG technology, industry influence of MEG futures market, high-value downstream products of DMO, methanol one-step to MEG & CO₂ to MEG technology R&D and industrial application, etc.

Preliminary Agenda

Apr.24, 2019	Wednesday
16:00~21:00	Pre-conference Registration
Apr.25, 2019	Thursday
08:30~12:30	Speech
12:30~14:00	Networking Lunch
14:00~18:30	Speech
18:30~20:00	Banquet
Apr.26, 2019	Friday
08:30~12:30	Speech
12:30~13:30	Networking Lunch
13:30~18:00	Business Travel

Topics

1. Global and China's PET/MEG supply & demand outlook
2. CTMEG new projects investment and capacity forecast
3. Technical optimization & innovation of oxalate route CTMEG
4. Industry influence of MEG futures market
5. Research and application of large-scale CTMEG reactor
6. CTMEG catalyst upgrades and catalyst recycling
7. Advantages of new methanol-formaldehyde route CTMEG technology
8. CTMEG product purification and separation process
9. Comprehensive approaches to improve the profitability of CTMEG plants
10. Coal based MEG application experience in PET industry
11. DMO high value downstream products - PGA/Ethanol/DPC
12. Environment protection & water treatment of CTMEG plants
13. CO and H₂ separation & purification solutions
14. Research on methanol one-step to MEG technology
15. CO₂ to MEG technology R&D and industrial application