

第十一届煤制乙二醇与草酸二甲酯高价值利用论坛

11th Coal to MEG & DMO High Value Utilization Forum **2020**

--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?

8月17日

南昌

Nanchang



主办方
Organizer



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会议背景

2019年中国乙二醇消费量继续增长，全年进口量995万吨，产量约739万吨，表观消费量1733万吨。2019年中国乙二醇产能1076万吨，其中超过40%为煤（合成气）制乙二醇。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，中国已建成和规划建设的煤制乙二醇项目超过50个。

煤制乙二醇已经大规模应用于聚酯化纤行业，成为中国乙二醇的重要来源。2020年初，中国已投产24个煤（合成气）制乙二醇项目，产能总计497万吨/年。亚化咨询研究表明，2020-2022三年间中国将新建成21个煤（合成气）制乙二醇项目总计871万吨产能，中国煤制乙二醇总产能将增至1368万吨/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。随着低油价成为新常态，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即将工业化，久泰内蒙古呼和浩特100万吨/年项目和鄂尔多斯50万吨/年项目正在抓紧建设。

第十一届煤制乙二醇与草酸二甲酯高价值利用论坛将于2020年8月17日在江西南昌召开。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-乙醇酸路线煤制乙二醇技术优势分析，煤制乙二醇装置的制氢应用潜力，合成气制草酸酯高价值下游产品，煤基草酸二甲酯生产可降解塑料的百万吨级产能展望等。

日程安排

2020年8月16日 周日

17:00-20:00 会议报到注册

2020年8月17日 周一

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

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. 煤制乙二醇装置的制氢应用潜力
5. 合成气制草酸酯高价值下游产品——PGA/乙醇/DPC
6. 煤基草酸二甲酯生产可降解塑料的百万吨级产能展望
7. 提升煤制乙二醇装置盈利能力的综合思路
8. 煤制乙二醇催化剂升级与催化剂回收利用
9. 全新甲醇-乙醇酸路线煤制乙二醇技术优势分析
10. 煤制乙二醇产品精制与分离工艺
11. 煤基乙二醇在聚酯化纤行业的应用经验
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. 1CO₂制乙二醇技术研发与工业化应用

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Background

In 2019, China's MEG consumption continued to grow, net import was about 9.95Mt, the output exceeded 7.39Mt, and apparent consumption was 17.33Mt. China's CTMEG plants have generally achieved high load and stable operation. Driven by good market prospects, proven technologies available and modest investment thresholds, more than 50 CTMEG projects have been completed and planned in China.

Coal-based MEG has been widely used in the PET industry and has become an important component of China's MEG production capacity. At the beginning of 2020, China's 24 CTMEG projects have been put into production, with a total capacity of 4.97Mt. ASIACHEM's research shows that, in the three years from 2020 to 2022, China will build 21 new CTMEG projects with a total capacity of 8.71Mt. The total CTMEG capacity will increase to 13.68Mt.

Despite the rapid development of China's CTMEG industry, it faces a series of challenges. As low oil prices become the new normal, the syngas via DMO route CTMEG faces strong competitors in other technical routes, including naphtha cracking to MEG route, MTO ethylene to MEG route, and ethane cracking ethylene to MEG route. In this context, 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 about to be industrialized, and Jiutai Inner Mongolia Hohhot 1 Mt/a project and Ordos 500kt/a project are under construction.

11th Coal to MEG & DMO High Value Utilization Forum 2020 will be held on August 17, 2020 in Nanchang, Jiangxi, China. The conference will focus on prospect of MEG supply and demand & prediction of coal-based MEG production capacity, optimization and process upgrade of DMO route CTMEG technology, CTMEG application experience in PET industry, advantages of new methanol-formaldehyde route CTMEG technology, application potential of hydrogen production in CTMEG unit, high-value downstream products of DMO, prospect of million ton production capacity of degradable plastics from coal based DMO, etc.

Preliminary Agenda

Aug.16, 2020	Sunday
17:00~20:00	Pre- conference Registration
Aug.17, 2020	Monday
08:30~12:30	Speech
12:30~14:00	Networking Lunch
14:00~18:30	Speech
18:30~20:00	Banquet

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. Application potential of hydrogen production in CTMEG unit
5. DMO high value downstream products - PGA/Ethanol/DPC
6. Prospect of 1Mt/a capacity of degradable plastics from coal based DMO
7. Comprehensive approaches to improve the profitability of CTMEG plants
8. CTMEG catalyst upgrades and catalyst recycling
9. Advantages of new methanol-formaldehyde route CTMEG technology
10. CTMEG product purification and separation process
11. Coal based MEG application experience in PET industry
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