### Economic and Employment Impacts of U.S. Methanol Industry

Methanol Institute June 2017



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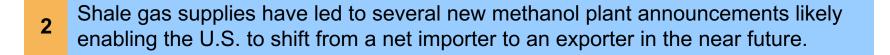
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Methanol has a wide variety of applications ranging from traditional uses as a solvent and a chemical feedstock to growing uses as a transportation fuel.



**3** A typical 1.5 million tons per annum methanol plant in the U.S. drives capital spending of \$1.1 billion and an economic ripple effect worth \$1.5 billion.

By 2020, U.S. methanol plants will create ~2,700 direct jobs with an average yearly salary of \$72,500, ~2,800 indirect jobs, and ~19,000 temporary construction jobs.

Texas and Louisiana will benefit the most from the methanol production boom as
20,000 jobs will be created and hundreds of millions of dollars will be poured into local economies through 2020

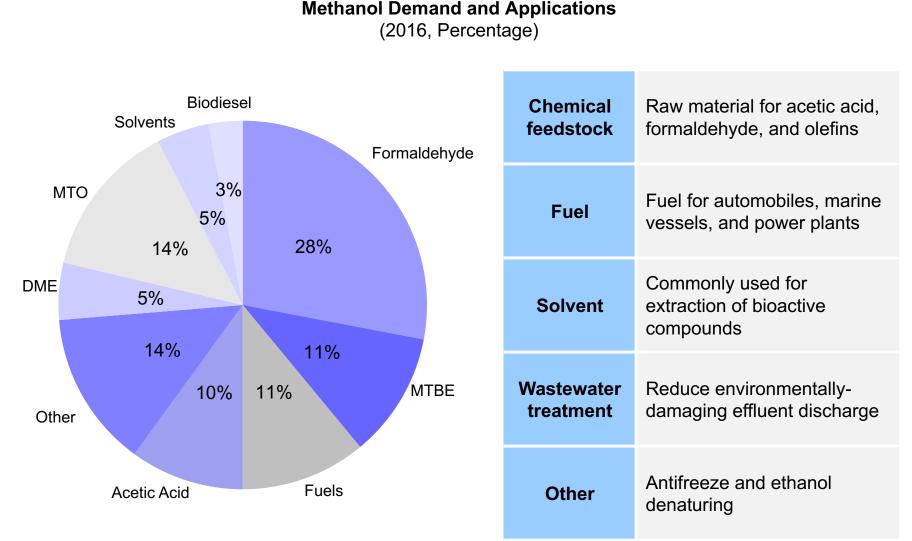


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# Methanol has many applications – from traditional uses as a chemical feedstock to growing uses as a transportation fuel



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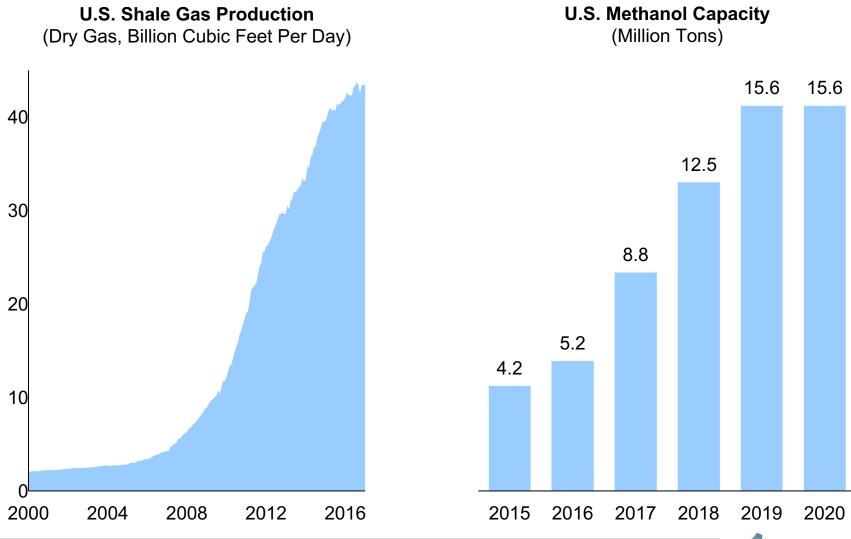


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Shale gas supplies have led to several new methanol plant announcements likely enabling the U.S. to shift from a net importer to an exporter in the near future.

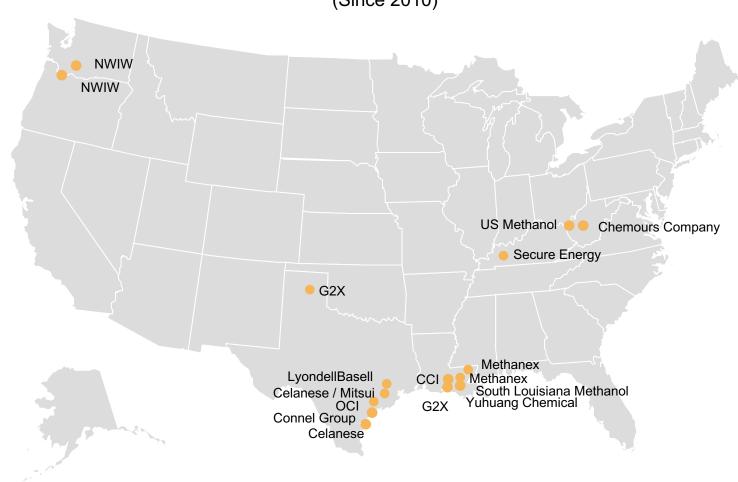


### Abundant and cheap natural gas from shale plays has led to several announcements of new methanol plants in the U.S.



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### New capacity has been targeted mainly in the U.S. Gulf Coast although new plants have been announced in other states too



U.S. Methanol Plant Additions and Announcements (Since 2010)



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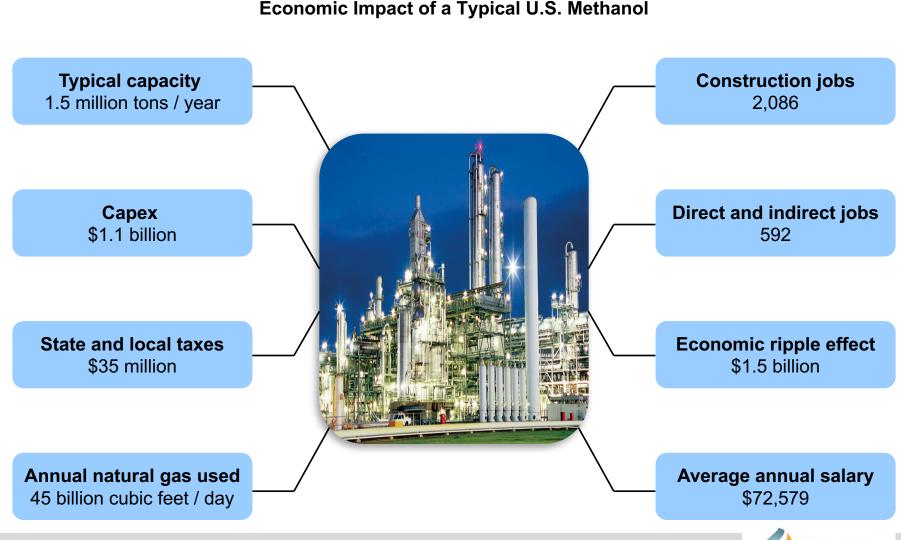


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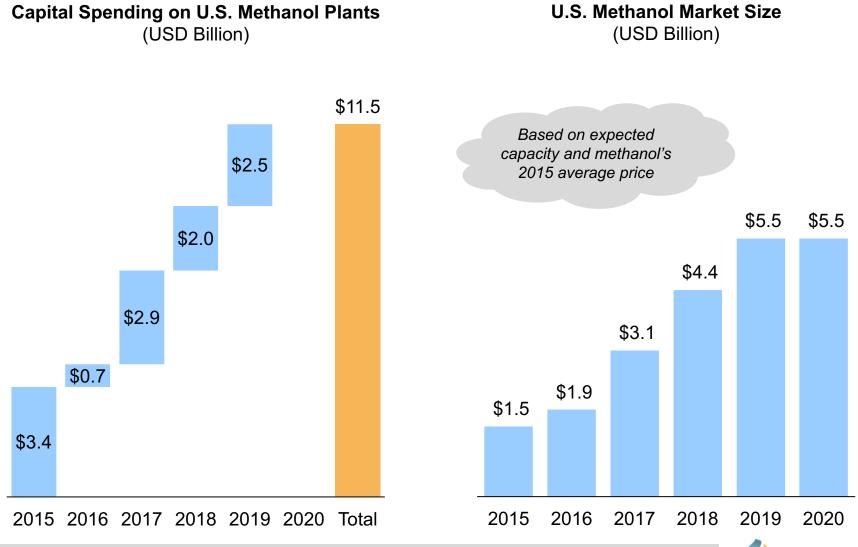
#### A typical U.S. methanol plant offers many economic benefits including direct and indirect jobs and tax revenue



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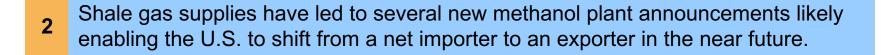
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# Capital spending of ~\$12 billion is expected on U.S. methanol plants creating a total market worth ~\$5.5 billion by 2020





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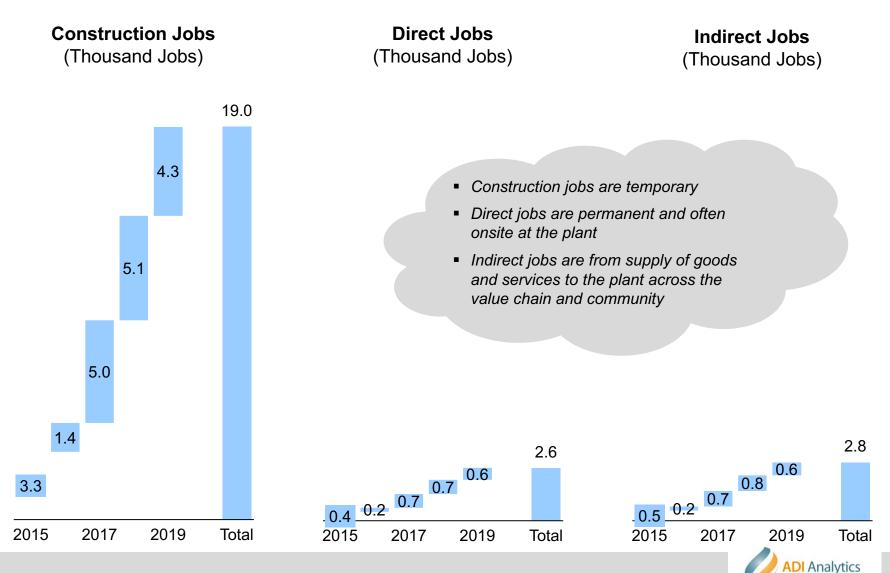


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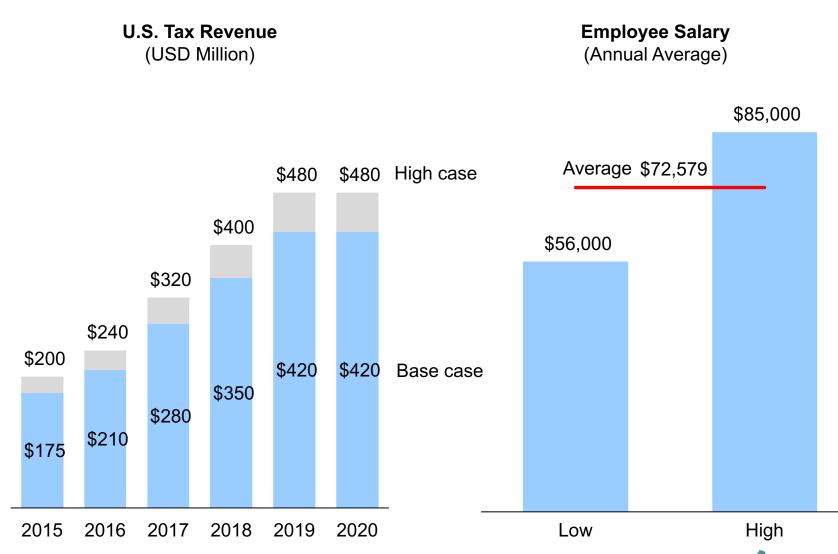
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### New methanol plants in the U.S. are anticipated to create over 5,000 permanent and 19,000 temporary jobs by 2020



### Methanol plants directly impact local economies through tax revenue and create high paying jobs

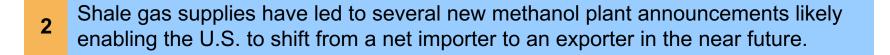




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#### Texas, Louisiana, and Washington will be the key beneficiaries as announced new methanol plants move forward in the U.S.

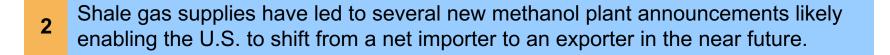
	Louisiana	Texas	Washington
<b>Capacity</b> (Million Tons/Year)	6.9	3.9	1.8
<b>Total capex</b> (USD Billion)	\$5.2	\$3.0	\$1.0
Total jobs	12,361	6,953	1,688
Annual payroll (USD Million)	\$94	\$52	\$14
Annual tax revenue (USD Million)	\$175	\$140	\$35
Economic impact (USD Billion)	\$5.8	\$3.3	\$1.5



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