

Hydrogen the Enabler: Meeting China's Energy Challenge

Beijing – July 18, 2019

AGENDA

Thursday, July 18, 2019	
<i>9:00—9:15</i>	<i>Coffee and registration</i>
9:15--9:30	Welcome and introduction
9:30—10:45	China's energy context <ul style="list-style-type: none"> ○ China's energy policy goals: security, affordability, sustainability ○ Composition of energy demand in China and the drivers of change ○ The IHS Markit scenario planning framework ○ Outlooks for long-term energy demand and supply in China by sector
<i>10:45—11:00</i>	<i>Break</i>
11:00—12:15	Assessing the cost of producing hydrogen <ul style="list-style-type: none"> ○ Current economics of hydrogen production from a range of sources <ul style="list-style-type: none"> ○ Steam reforming, coal gasification, ○ Electrolysis using renewable electricity, and ○ Methane pyrolysis ○ Identification of the main cost drivers for each production route ○ Impact of large-scale development of hydrogen production on cost projections ○ Expected evolution of the cost of hydrogen from a range of sources ○ Costs of producing synthetic methane and comparison with hydrogen
<i>12:15 – 1:30</i>	<i>Lunch</i>
1:30—2:45	Transporting hydrogen <ul style="list-style-type: none"> ○ Comparative cost analysis of hydrogen transport using different methods <ul style="list-style-type: none"> ○ Compressed hydrogen tube trailers, ○ Cryogenic liquid hydrogen trucks, and ○ Hydrogen pipelines ○ Comparison of transporting renewable electricity from remote production centers as hydrogen, synthetic methane or by HV power lines
2:45 – 3:30	Discussion of future analysis and next steps <ul style="list-style-type: none"> ○ An overview of the quantitative approach for the rest of the study ○ Feedback from study participants on future research topic