## Light olefin production through direct Fischer-Tropsch process from alternative energy resources

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## Activities in the JRC

- The objectives of the project has been defined.
- One PhD student has been hired in SJU, and visited NTNU in 2014.
- One PhD student will be hired at NTNU.
- One project student is currently working in the project.
- An international symposium on Synful 2015 combining a summer school is scheduled in 2015.

## Seminar at Department of Chemical Engineering, NTNU, 2013

- Prof. Wen-De Xiao (SJTU), Multifunctional reactors: application and prospect
- Dr. Jia Yang (NTNU), Mechanistic understanding of Fischer-Tropsh by steady state transient isotopic kinetic analysis (SSTIKA)
- Michael Markus Wycisk, colloid Co nanoparticle synthesis and applications
- Yanyin Qi: DFT studies on reaction mechanism of CO activation in Fischer Tropsch synthesis on Co

## Seminar at Department of Chemical Engineering, NTNU, 2014

- Michael Markus Wycisk: Co-Mn Catalyst in Synthesis Gas Conversion to Olefins.
- Xuezhi Duan: Iron Nanoparticles Supported on Modified Carbon Nanotubes by KMnO4 as Catalysts for Direct Conversion of Syngas to Lower Olefins
- Yu WNAG: Catalysis in sustainable energy