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Synthetic and alternative fuel applications

Laboratory of combustion processes

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3 different options to use landfill gas and off-gases with low methane (<40%) content will be evaluated and benchmarked:

- combustion of low calorific gas in a dual fuel engine using a renewable pilot fuel
- **spark ignited engine and oxygen enriched combustion air**
- Spinnig Fluids Reactor (SFR) to remove carbon dioxide in order to increase the heating value of the low calorific gas



The engine will be modified for oxygen-enriched combustion conditions and tested on-site.





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Thank you for your attention

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