

The SP Biofuels research platform brings together the SP Group's resources applicable to the production and use of renewable motor fuels. These gaseous and liquid fuels will be key components of the world's future energy supply. Together with renewable electricity they form part of the means of achieving the EU climate target of 20 % renewable energy, and at least 10 % renewable motor fuels, by 2020.

SP Biofuels is a research platform supporting innovation within the production and use of liquid and gaseous biofuels. The work is performed jointly by SP and its subsidiary company JTI, the Swedish Institute of Agricultural and Environmental Engineering. Research projects are carried out within seven competence areas (green circle), with some areas including broader work in the form of testing, inspection and development assignments.

In the biogas area, for instance, laboratory work on anaerobic digestion of different raw materials, optimization of the production process and development of measurement methodology for analysis of biogas quality are performed.

Biofuels can be produced from gasification and SP has equipment for studying the gasification process. SP has specialized competence within small-scale gasification. Further, many of our projects relates to problems related to increase the electrical efficiency in a boiler at a heat and power plant.

SP also performs research on how to grow algae for the production of biofuels in Swedish weather conditions. It is the fat of the algae which is extracted for production of biodiesel, ethanol or biogas.

The switch to biofuels results in new challenges. Biofuels degrade faster than fossil fuels, and as a consequence they may cause problems relating to operation problems, impurities and corrosion. SP works to resolve these problems and carries out applied research on these types of questions. SP also carries out work relating to the development of quality assurance methods for biofuels.

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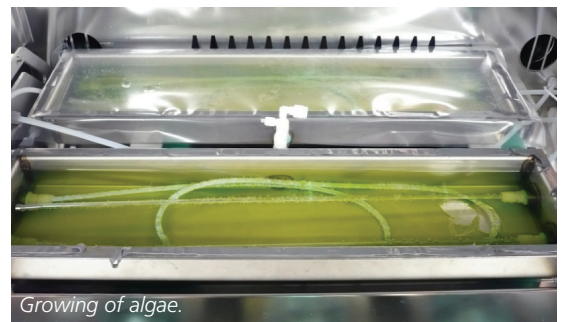
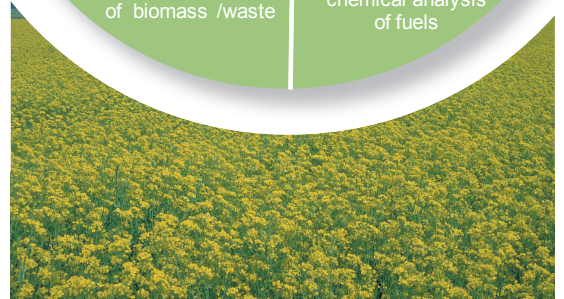
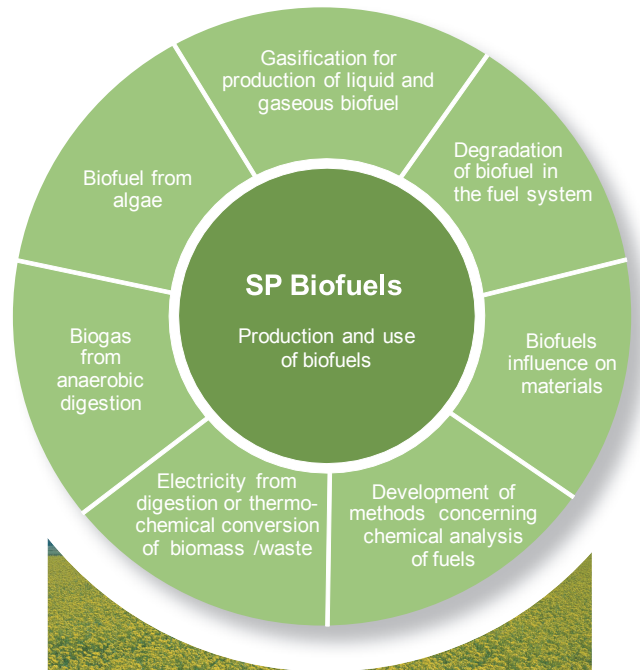
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Growing of algae.



Laboratory reactor for combustion and gasification tests.



Filling-up with biomethane.