

Syngip BV has engineered a bacterium that can convert waste gases into valuable isobutene. Isobutene is a platform chemical with a global annual consumption of over 15 million tons. It can be used to produce fuels (ETBE, MTBE, isooctane) and chemicals (butylrubber, methacrolein). Syngip's technology can make use of steel mill gases without the need to separate the constituents and converts the different components (H₂, CO, CO₂) into one chemical product (isobutene) which leaves the reactor with the tail gas without the need of distillation. The bacteria are very fast growing and very robust resisting small traces of contaminants. Syngip has currently pilot projects with Bio Base Europe Pilot Plant and HS Anhalt.