## **ARTICLE**

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## Supplementary material

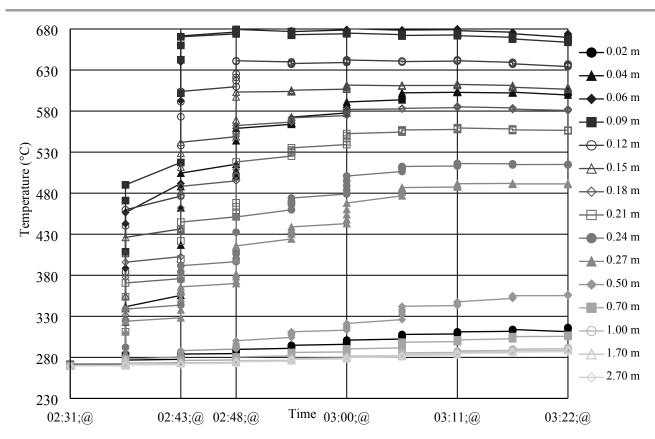


Figure SI 1 Temperature development during startup of the reactor. The series represent the temperature probes down through the first reactor tube. Processing of 9.70 Nm $^3$ /h biogas and 15.9 Nm $^3$ /h  $H_2$  at 20 barg with a  $H_2$ /CO $_2$  ratio of 4.1.

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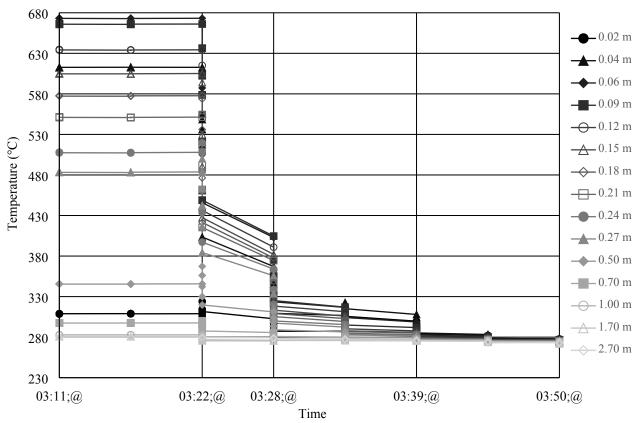


Figure SI 2 Temperature development during shutdown of the reactor. The series represent the temperature probes down through the first reactor tube. Processing of 9.70 Nm $^3$ /h biogas and 15.9 Nm $^3$ /h H $_2$  at 20 barg with a H $_2$ /CO $_2$  ratio of 4.1.