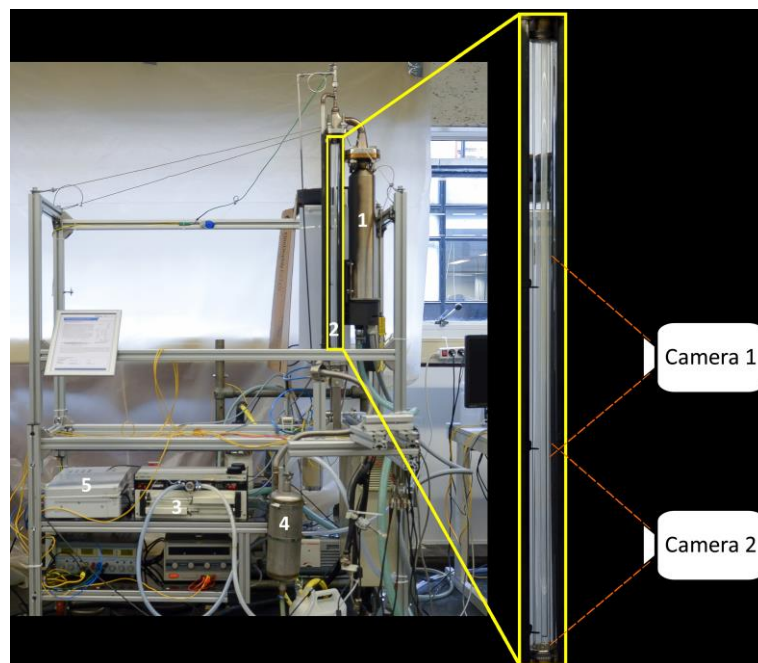


**Master project: improvement of a waste heat once-through steam generator****Background**

Together with the company Heat Power, Eindhoven University of Technology developed a compact, fast responding and economic once-through steam generator.

Due to its compactness, short start-up time and low investment costs, the once-through steam generator technology will enable waste-heat utilization with a steam system in decentral industrial and automotive applications, like e.g. cogeneration and ships propulsion.



In a lab of the TU/e an experimental set-up was realized that visualizes the once-through steam generation process with a quartz tube.

**Goal**

Perform further experiments with the set-up to investigate boiling phenomena and advise design improvements for the once-through steam generator, to make it faster while still ensuring steam quality and controllability.

**Assignment**

Pursue goals as described in the above. The supervisors and master student together will decide where the focus of this assignment will be.

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