

## Lecture: **Transport and Storage of Chemical Energy Carriers**



Figure: Compressor station operated by GVS (Reference: ENBW)

<b>Lecturer:</b>	Prof. Dr.-Ing. T. Kolb, Dr.-Ing. F. Graf, Dr.-Ing. M. Bernhart
<b>Start:</b>	SS 2016, Friday, April 22, 2016
<b>Time:</b>	Friday, 3:45pm – 5:15pm, weekly
<b>Location:</b>	Building 50.41, room -108
<b>SWS:</b>	2
<b>Language:</b>	English
<b>LV-Nr:</b>	22332

### Lecture:

The master course “**Transport and Storage of Chemical Energy Carriers**” teaches the fundamentals of two important steps of today’s energy supply chain: transportation and storage. The transportation of chemical energy carriers from the source to the consumer is discussed in detail and options for storage are presented. The lecture also teaches the basics of organization and management of utilities companies and the basics of economics (profitability analysis, cost estimation). Lecturers are renowned experts from industry and research.

### Contents:

- Energy Resources / Chemical Energy Carriers
- Distribution Systems
- Natural Gas Utilization
- Organization and Management Systems
- Fundamentals of Economics
- Profitability Analysis
- Conversion Processes
- Odorants and Odorization
- Gas Appliances and New Technologies
- Production, Upgrading and Injection of Gases from RES
- Estimating the Capital Expenditure of Chemical Plants