

Renewable Energy

Personnel:

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Language:

English

References:

- David McKay, Sustainable Energy – without the hot air, UIT Cambridge (available on web)
- Kreith and Goswami, editors, Handbook of energy efficiency and renewable energy, Taylor and Francis Group, 2007.

Time and location:

Lecture Tuesday, 10:15-12:00, ELA 2

Exercise Tuesday, 12:15-13:00, ELD 020 and ELE 111

Exam:

Written exam in exam period; closed books, only calculator and 10 A4 pages (single sided, or 5 pages double sided) personal summary can be used

Course:

- Material online: moodle.epfl.ch
- Syllabus:

	Lecture Wednesday (10:15-12:00)	Lecturer	Exercise Tuesday (12:15-13:00)
Week 1 (22. 2)	Introduction	SH	Exercise 1
Week 2 (2.3)	Power cycles, ORC, co-generation	SH	Exercise 2
Week 3 (8.3)	Geothermal	SH	Exercise 3
Week 4 (15.3)	Wind	JvH	Exercise 4
Week 5 (22.3)	Wind	JvH	Exercise 5
Week 6 (29.3)	Ocean, tidal and wave	JvH	Exercise 6
Week 7 (5.4)	Solar thermal	SH	Exercise 7
Week 8 (12.4)	Solar electricity	SH	Exercise 8
Week 9 (26.4)	Solar fuels	SH	Exercise 9
Week 10 (3.5)	Biomass	JvH	Exercise 10
Week 11 (10.5)	Biomass	JvH	Exercise 11
Week 12 (17.5)	Electrochemical and thermo-electrical conversion	JvH	Exercise 12
Week 13 (24.5)	Storage	SH	Exercise 13
Week 14 (31.5)	Hydrogen	JvH	Exercise 14