

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, CM15

Exercise Tuesday, 12:15-13:00, CM1105

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 (20.2)	Introduction	SH	Exercise 1
Week 2 (27.2)	Power cycles, ORC, co-generation	SH	Exercise 2
Week 3 (5.3)	Wind	JVh	Exercise 3
Week 4 (12.3)	Wind	JVh	Exercise 4
Week 5 (19.3)	Geothermal	SH	Exercise 5
Week 6 (26.3)	Biomass	JVh	Exercise 6
Week 7 (9.4)	Biomass	JVh	Exercise 7
Week 8 (16.4)	Solar thermal	SH	Exercise 8
Week 9 (23.4)	Solar electricity	SH	Exercise 9
Week 10 (30.4)	Solar fuels	SH	Exercise 10
Week 11 (7.5)	Hydrogen	JVh	Exercise 11
Week 12 (14.5)	Electrochemical and thermo-electrical conversion	JVh	Exercise 12
Week 13 (21.5)	Storage	SH	Exercise 13
Week 14 (28.5)	Ocean, tidal and wave	JVh	Exercise 14