

# ENERGY USE in BUILDINGS

NTNU:

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SJTU:

Prof. Yanjun DAI

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Assis. Prof. Tianshu GE

# Progress since Sept, 2011

- SJTU
  - Team engaged
  - GEL: building energy system and devices are finished
  - Zero Energy apartment
- NTNU
  - Team engaged
  - PhD candidate engaged
  - Activities in ZEB center
  - Two Master students visiting at SJTU.

# Collaboration through PhD

- First period
  - Topic: BIPV/T
  - NTNU Candidate - already engaged
    - Clara Good will start 01.10.12
    - Probable stay at SJTU spring / fall 2014
  - SJTU Candidate – to be engaged spring 2013
  - Both candidates should be present at same campus for long periods during the PhD engagement

# Collaboration through PhD

- Next period
  - Topic: Solar heating and cooling with energy storage
  - NTNU Candidate – apply for funding
  - SJTU Candidate – apply for funding
  - Both candidates should be present at same campus for long periods during the PhD engagement

# Industrial partners

- NTNU
  - YIT, Brødrene Dahl, Hydro Aluminium
  - Will be represented at next meeting at NTNU
- SJTU
  - Daikin, Linuo-paradigma, Sunrain
  - Will be invited to next meeting at SJTU

# Exchange of students and Professors

- Scholarships (PhD & MSc) application to Chinese Government in September, 2012
- Short time visiting of professors (3-6 weeks);
- Prof. Novakovic visiting (3-4 months) in 2014
- New master students visiting next spring.

# Research Proposals

- Applications to national research councils at first coming opportunity
  - Topics should be related to PhD thesis
- Research Council of Norway (Programs: RENERGY + GassMaks+,,)
- Ministry of Science and Technology, China (MOST)
- National Science Foundation of China
- Industrial partners