

## Dr. techn. Shima Goudarzi

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+4368184094000 , kontakt@goudarzi.at , [shimagoudarzi.github.io](https://github.com/shimagoudarzi) , Austrian citizen (open for relocation)

### Experience

- Senior Researcher and Lecturer**, FH Technikum Wien Jan 2021 – current
- Research and teaching in the department of renewable energy systems and the Austrian faculty of industrial engineering.
- Technical Engineer**, VollSOLAR GmbH Nov 2014 – Jan 2021
- Design and development of thermally activated building structures with integrated solar systems in industrial and rural sectors.
- Research Assistant**, GrAT @ TU Wien Jan 2012 – Jun 2014
- Research and training areas: renewable energy systems, energy efficient buildings, sustainable buildings and integrated solar systems.
- Technical Engineer**, Fajr Gostar Novin Co. Jan 2004 – Dec 2009
- Product development and process optimization of pressed parts for the automotive industry.

### Education

- Ph.D. Mechanical Engineering, Vienna University of Technology 2014
- M.Sc. Industrial Engineering, Sharif University of Technology 2005
- B.Sc. Mechanical Engineering, Iran University of Science and Technology 1998

### Technologies

City Energy Analysis CEA, Polysun, SimaPro, ArchiCAD, Matlab, Office

### Awards

- Staatspreis Architektur und Nachhaltigkeit (State Award for Sustainability) 2019
- as one of the most prestigious prizes in Austria, for the innovative energy design of a thermally activated building combined with heat pumps and solar panels.

### Selected Publications, Research Projects

- Goudarzi S. (2014) *Design, construction, monitoring and life cycle assessment of integrated solar systems*. PhD dissertation, Vienna University of Technology. DOI: 10.34726/hss.2014.25074 (pdf)
- Analysis of the costs and environmental effects of integrated solar systems.
- Wimmer R., Pokpong C., Eikemeier S., Goudarzi S. et al. (2014) *Zero CO<sub>2</sub> Cooler – der Kühlschrank mit Warmwasseranschluss*. NEUE ENERGIEN 2020 - Gruppe Angepasste Technologie GrAT. (pdf)
- Research about a solar fridge that does not emit any carbon dioxide. Funded by the Austrian research promotion agency (FFG).
- Wimmer R., Goudarzi S. et al. (2013) *Zero Carbon Village - energy autarcic settlement*. Building of Tomorrow. (website)
- Feasibility study for the construction of a self sufficient zero-carbon energy village in Austria. Also held a presentation at the Sustainable Building Conference Graz SBCG for this project about its “Modular prefabrication and sustainable building materials”.
- Goudarzi S. et al. (2013) *Training of Trainers 2 Handbook*. SWITCH Asia - Sustainable and Efficient Industrial Development SEID in Nepal & Bhutan. (website)
- A guideline for companies to implement appropriate and sustainable technology solutions. Also held a presentation in Bhutan about the “Recourse efficiency and cleaner production”.