Thesis Title Programme of Studies Course Area of Study Student's Name Students Reg. Number Supervisor Supervisory Committee	Cradle to Gate Life Cycle Assessment of Solar Thermal Panels MSc in Energy Systems and the Built Environment MES 580 Master Thesis Sustainable Energy Technologies – Biofuels Assessment Phoebe Georgalli 10383 DrIng. Paris A. Fokaides, V. Lecturer, Civil Engineering Department Dr. George Karagiorgis, Assoc. Professor, Mechanical Engineering Depart- ment
Semester	Dr. Byron Ioannou, Ass. Professor, Architectural Department Fall Semester 2016
Short Description	The environmental assessment of facilities and equipment used for the ex- ploitation of renewable energy sources constitutes a major challenge of the environmental scientific community. Studies conducted in this field aim to define manufacturing alternatives which could mitigate the negative environ- mental impacts. The purpose of this study is the implementation of a com- prehensive life cycle assessment for the definition of the environmental per- formance of flat plate solar thermal collectors. In terms of this study four alternative manufacturing scenarios are examined and a comparative as- sessment of the findings of the individual analyses is performed. The inter- pretation of the LCA findings leads to some useful conclusions concerning the improvement of the environmental performance of flat plate solar ther- mal collectors manufacturing.