



The Solar Decathlon is a biennial international competition that challenges university teams across the United States, Europe and Canada to compete in designing, building and operating a 100% solar powered house. This book documents the 2007 entry of TEAM MONTREAL, a consortium between l'École de Technologie Supérieure (ETS), l'Université de Montréal faculté de l'aménagement, and the McGill University School of Architecture.

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Réseau canadien de recherche en design

ÉQUIPE MONTRÉAL MAISON SOLAIRE | SOLAR HOUSE TEAM MONTREAL

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2007 MAISON SOLAR SOLAIRE HOUSE TEAM MONTREAL
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entry to the solar decathlon

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Includes bibliographical references and index.

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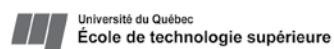
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PREFACE | PRÉFACE

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INTRODUCTION

LIBBY DROR

The Solar Decathlon is a biennial international competition, challenging student teams from twenty universities across the United States, and the world to design, build and operate a highly energy-efficient solar-powered house. This book documents the 2007 Solar Decathlon entry of Team Montreal, a consortium of l'École de Technologie Supérieure (ETS), l'Université de Montréal Faculté de l'aménagement, and the McGill University School of Architecture. Using an integrated multidisciplinary design process, the team demonstrated an efficient contemporary design that responded to the challenges of the Canadian climate.

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THE SOLAR DECATHLON CHALLENGE

The competition brief of the Solar Decathlon calls for the design of a modest self-sufficient house that can generate its own electricity and accommodate the contemporary life style of an average modern couple. The challenge lies in providing all the requirements and accessories of comfortable living including the typical household equipment and appliances while relying solely on the capacity of the sun to generate the electricity needed to power the house and its amenities. The homes are put to the test in ten days of competition on the National Mall in Washington D.C. Twenty teams competed in the 2007 Solar Decathlon. The competitors included sixteen teams from major American universities, one from Germany, one from Spain, one from Puerto-Rico and the sole Canadian entry, Team Montreal.

Each entry is transported in modules from across the globe to the site. The teams must reassemble the houses on the National Mall from structure to finish in only nine days. The completed houses are open for public viewing and are judged for their particular innovations in a series of ten competitions. In five of the ten contests,

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juries made up of industry professionals evaluate the houses. Decathletes must prove that their homes can maintain a comfortable room temperature, provide hot water, and power appliances for cooking. Each house is asked to generate enough surplus energy to run an electric vehicle. Perhaps most importantly, the teams are challenged to demonstrate to the public that solar energy can effectively meet and exceed today's household and market demands.

A COMMITTED SYNERGY

Every two years, the American Department of Energy selects the competing teams who will shape the 'Solar Village'. Initial submissions describe the organization of teams, design concepts, and methods for involving school curriculum. The teams are granted core funding to launch the project and are expected to obtain remaining support by forming alliances with industrial partners.

The Solar Decathlon operates as a catalyst for students to develop innovative and practical solutions for renewable energy in housing design. While the project focuses on small houses, the potential influence of this

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competition on the building industry as a whole is substantial. Situated on the National Mall in Washington D.C., the Decathlon's 'Solar Village' boldly faces Capitol Hill, the pinnacle of today's global decision making. [20.1] The most recent competition received over 100,000 visitors in less than two weeks. This major public exposure makes the competition a potent marketing tool for sustainable technologies. The entries reinforce the merit of sustainable solar design research as a viable solution to the challenges of today's environmental crisis.

BEYOND THE BORDERS

The Solar Decathlon competition greatly encourages the world professional community to join efforts in the development of sustainable strategies and technologies for the implementation of renewable sources of energy. During the 2007 competition, the U.S. Department of Energy propelled this goal by signing a historical memorandum of understanding with Spain to collaborate on the development of the European Solar Decathlon. This event will take place for the first time in Madrid in 2010. The European event is projected to occur every other year alternating with the North American competition.

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