

FLORIDA SOLAR



ENERGY CENTER®

Energy-Efficient Florida Home Building

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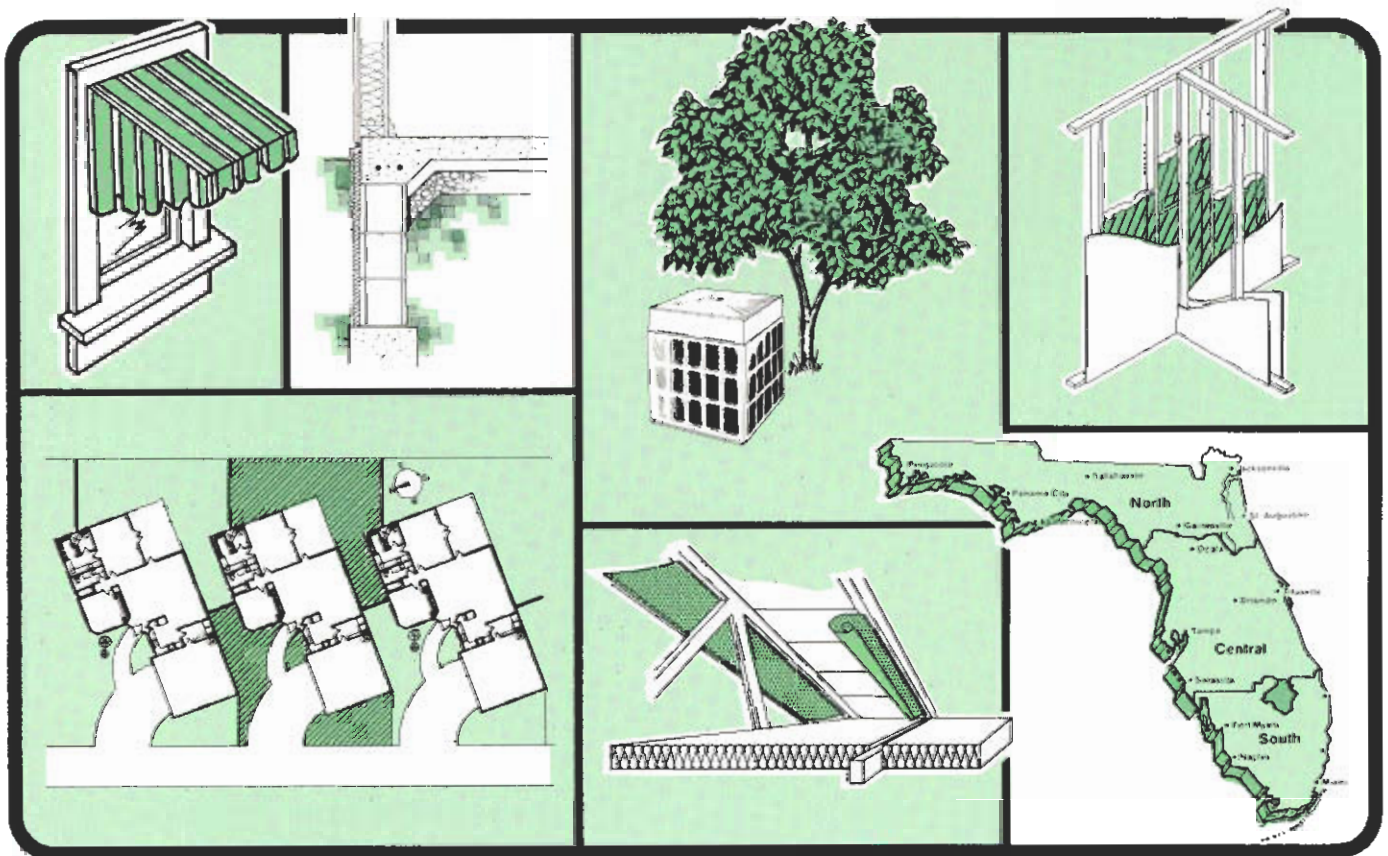
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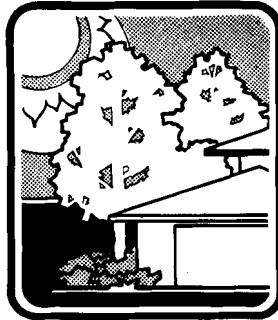
Energy-Efficient Florida Home Building



Florida Solar Energy Center

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Energy-Efficient Florida Home Building



**by
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Foreword



STATE OF FLORIDA
DEPARTMENT OF COMMUNITY AFFAIRS

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LAWTON CHILES
Governor

LINDA LOOMIS SHELLEY
Secretary

Dear Fellow Floridians:

This book presents practical, real-life recommendations on how to design and build homes in Florida. It contains information specific to our state's climate and lifestyles, rather than the overly general information found in most residential building publications.

The book has been developed as an all-inclusive guide for anyone interested in constructing homes that are energy efficient. It is packed with information that will help you plan such homes, choose the best materials and products for the homes, and if you are a builder or developer - sell and profit from them.

The Florida Energy Office in the Department of Community Affairs is pleased to have sponsored the publication of this book by the Florida Solar Energy Center. I am confident you will enjoy its recommendations. Energy-efficient homes not only help consumers save money but benefit our state's environment and economy.

Very Truly Yours,

A handwritten signature in cursive script that reads "Linda Loomis Shelley".

Linda Loomis Shelley
Secretary

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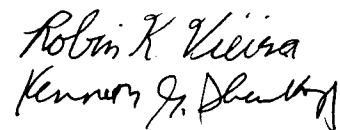
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Sincerely,



Robin K Vieira
Kenneth G. Sheinkopf

Contents

<u>Chapter</u>	<u>Page</u>
1. Why You Should Build Energy-Efficient Houses	1-1
2. How to Market Energy-Efficient Houses	2-1
3. Site Selection and Planning	3-1
Marketing Energy-Efficient Sites	3-2
Selecting and Creating Energy-Efficient Sites	3-4
4. Energy-Efficient Home Design	4-1
Marketing	4-2
Selecting and Modifying	4-3
House Plan Examples	4-13
5. Energy-Efficient Foundations and Floors	5-1
Marketing	5-2
Constructing	5-3
6. Energy-Efficient Walls	6-1
Marketing	6-2
Constructing	6-3
7. Energy-Efficient Windows and Doors	7-1
Marketing	7-2
Selecting and Installing	7-4
8. Energy-Efficient Roofs, Ceilings and Attics	8-1
Marketing	8-2
Selecting and Installing	8-5
9. Energy-Efficient Comfort Conditioning Equipment.	9-1
Marketing	9-2
Selecting and Installing	9-3
10. Energy-Efficient Appliances	10-1
Marketing	10-2
Selecting and Installing	10-4
11. Amenities	11-1
Marketing	11-2
Selecting	11-4
Appendix A — Economics of Energy-Saving Features	A-1
Index	I-1

Abbreviations

AC	Air conditioner
AEC	Annual energy cost
AFUE	Annual Fuel Utilization Efficiency
AHAM	American Home Appliance Manufacturer's Association
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers
CFM	Cubic feet per minute
COP	Coefficient of Performance
CRI	Color rendering index
DE	Diatomaceous earth
EF	Energy factor
EPA	Environmental Protection Agency
FHA	Federal Housing Administration
FSEC	Florida Solar Energy Center
FTC	Federal Trade Commission
HP	Heat pump
HSPF	Heating Season Performance Factor
HVAC	Heating, Ventilation and Air-Conditioning
ICS	Integral Collector Storage
IRRI	Internal rate of return on investment
JEA	Jacksonville Electric Authority
Low-E	Low emissivity
LP, LPG	Liquid propane, liquid propane gas
NA	Not applicable
NAAMC	Net added annual mortgage cost
NFYCF	Net first year cash flow
OB	Oil base
OSHA	Occupational Safety and Health Administration
PV	Photovoltaic
R (value)	Resistance to heat flow
RE	Recovery efficiency
SC	Shading coefficient
SEER	Seasonal Energy-Efficiency Ratio
SHF	Sensible Heat Fraction
SP	Specific pressure
SPB	Simple payback
TARP	Thermal Analysis Research Program
VA	Veterans Administration