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# **The diffusion of sustainable practices within the Australian Housing Industry:**

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## **Implications for Future Change Management**

**A dissertation submitted in fulfilment of the  
requirements for award of the degree:**

**Doctor of Philosophy in  
Sustainable Futures**

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## Declarations

This thesis contains no material which has been accepted for the award of any other degree or diploma in any university, and, to the best of my knowledge and belief, neither does it contain material previously published or written by another person, except where due acknowledgement is made in the text.

Signature of candidate:

Christopher Charles Reardon

Thursday, 04 June 2009

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## List of abbreviations and acronyms

ABCB	Australian Building Codes Board
ABEC	Australian Building Energy Council
ABS	Australian Bureau of Statistics
ABSA	Association of Building Sustainability Assessors
ACT	Australian Capital Territory
AGO	Australian Greenhouse Office (Commonwealth)
AHI	Australian Housing Industry
AIBD	Australian Institute of Building Designers
AIBS	Australian Institute of Building Surveyors
ALGA	Australian Local Government Association
ANT	Actor Network Theory
ANTA	Australian National Training Authority
ANZSES	Australia & New Zealand Solar Energy Society
AQF	Australian Qualifications Framework
AR	Action Research
ASBEC	Australian Sustainable Built Environment Council
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
BASIX	Building and Sustainability Index
BaU	Business as Usual
BCA	Building Code of Australia
BDA	Building Designers Association (state branch e.g. NSW)
BDAA	Building Designers Association of Australia Ltd
BDP	Building Design Professionals
BERS	Building Energy Rating Scheme
BITS	Building Industry Training in Sustainability
BRANZ	Building Research Association of New Zealand
BREAM	British Research Establishment Assessment Method
BSS	Building Sustainability Seminars
CA	Change Agency (e.g. SEDA)
CC	Construction Certificate
CEO	Chief Executive Officer
CFL	Compact Fluorescent Lamp
CIE	Centre for International Economics (Canberra & Sydney)
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> -e	Carbon dioxide – equivalent
CoAG	Council of Australian Governments
CPD	Continuing Professional Development

CPRS	Carbon Pollution Reduction Scheme
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DEC	Department of Environment and Climate Change (NSW)
DEST	Department of Education, Science and Training
DEUS	Department of Energy, Utilities and Services (NSW)
DEWHA	Department of Environment, Water, Heritage and the Arts
DIPNR	Department of Infrastructure, Planning and Natural Resources (NSW)
DIY	Do It Yourself
DoI	Diffusion of Innovations
DoP	Department of Planning (NSW)
DTS	Deemed To Satisfy
DTC	Deemed To Comply
EA	Environment Australia (now DEWHA)
EE	Energy Efficiency
EEC	Energy Efficiency Certificate
EEI	Energy Efficiency Improvement
ESD	Ecologically Sustainable Development
ESH	Energy Smart Homes
GBC	Green Building Council
GBCA	Green Building Council of Australia
GGE	Greenhouse Gas Emission
GHG	Greenhouse Gas
GJ	gigajoule
GL	gigalitre
GREX	Green Build and Renewable Energy Exhibition and Conference
HDAA	Housing Design and Architecture (e-group)
HERS	House Energy Rating Software
HIA	Housing Industry Association
HMB	HERS Management Body
HPE	Health Promotions and Education
HWS	Hot Water Service
IC	Interpersonal Communications
IE Aust.	Institute of Engineers, Australia
IPCC	Intergovernmental Panel on Climate Change
ISF	Institute for Sustainable Futures, UTS
ISR	(Department of) Industry, Science and Resources
ITAB	Industry Training Advisory
LA21	Local Agenda 21
LCA	Life Cycle Assessment
LCC	Life Cycle Costing
LCP	Least Cost Planning
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
MBA	Master Builders Association
MD	Mandatory disclosure (of sustainable performance)
MEPS	Minimum Energy Performance Standards (appliances)
MRET	Mandatory Renewable Energy Target
Mt	Mega tonne
MV	Mandatory valuation (of sustainable performance)
MWh	Megawatt hour
NABERS	National Australian Built Environment Rating System
NAFI	National Association of Forest Industries
NatHERS	National House Energy Rating Software

NFEE	National Framework for Energy Efficiency
NGO	Non Government Organisation
NHERS	National House Energy Rating Scheme
NSW	New South Wales
NT	Northern Territory
OL	Opinion Leader
PATHE	Partnerships Advancing the Housing Environment (HIA GreenSmart)
PC	Private Certifier
PV	Photovoltaic (panel)
QA	Quality Assurance
QLD	Queensland
R&D	Research and Development
RAIA	Royal Australian Institute of Architects
RAPS	Remote Area Power Supply
RICS	Royal Institute of Chartered Surveyors
RIS	Regulatory Impact Statement
ROC	Region of Councils
RP	Reflective Practice
RPL	Recognition of Prior Learning
RPS	Recognition of Prior Skill
RTO	Registered Training Outlet
SA	South Australia
SAPS	Stand Alone Power Supply
SC	Sustainability Consultant
SEAV	Sustainable Energy Authority of Victoria
SEDA	Sustainable Energy Development Authority (NSW)
SEDO	Sustainable Energy Development Office (WA)
SME	Small to Medium Enterprise
SP	Sustainable Practices and Technologies
SV	Sustainability Victoria
TAFE	Tertiary AND Further Education
TAS	Tasmania
TD	Transdisciplinary
TEC	Total Environment Centre
TM	Thermal Mass
UDIA	Urban Design Institute of Australia
UNFCCC	United Nations Framework Convention on Climate Change
UTS	University of Technology, Sydney
VEET	Victorian Energy Efficiency Target
VET	Vocational Education Training
VIC	Victoria
WA	Western Australia
WMO	World Meteorological Association
YH	Your Home