

Table of contents

Acknowledgements	5
List of tables	7
List of figures	8
Executive summary	11
Introduction	15
■ Background	15
■ Purpose and report structure	16
■ Approach	16
Energy efficiency policy context	19
Strengths and innovations in energy efficiency policy	23
■ Cross-sectoral	24
■ Buildings	26
■ Appliances	28
■ Lighting	29
■ Transport	30
■ Industry	31
■ Utilities	32
Challenges and areas for improvement in energy efficiency policy	33
■ Cross-sectoral	33
■ Buildings	36
■ Appliances	37
■ Lighting	38
■ Transport	39
■ Industry	39
■ Utilities	41
Summarising progress with IEA member country implementation of the 25 energy efficiency policy recommendations	43
■ Combined IEA country progress	43
■ Comparison of degree of progress with implementing recommendations	44
■ Comparison of IEA implementation progress by sector	45
Country reports	51
■ Energy efficiency progress report, Australia	53
■ Energy efficiency progress report, Austria	56
■ Energy efficiency progress report, Belgium	58
■ Energy efficiency progress report, Canada	60

■ Energy efficiency progress report, The Czech Republic	63
■ Energy efficiency progress report, Denmark	65
■ Energy efficiency progress report, Finland	67
■ Energy efficiency progress report, France	69
■ Energy efficiency progress report, Germany	71
■ Energy efficiency progress report, Greece	73
■ Energy efficiency progress report, Hungary	75
■ Energy efficiency progress report, Ireland	77
■ Energy efficiency progress report, Italy	79
■ Energy efficiency progress report, Japan	82
■ Energy efficiency progress report, Korea	85
■ Energy efficiency progress report, Luxembourg	88
■ Energy efficiency progress report, The Netherlands	90
■ Energy efficiency progress report, New Zealand	92
■ Energy efficiency progress report, Norway	94
■ Energy efficiency progress report, Poland	96
■ Energy efficiency progress report, Portugal	98
■ Energy efficiency progress report, The Slovak Republic	100
■ Energy efficiency progress report, Spain	102
■ Energy efficiency progress report, Sweden	104
■ Energy efficiency progress report, Switzerland	106
■ Energy efficiency progress report, Turkey	108
■ Energy efficiency progress report, The United Kingdom	110
■ Energy efficiency progress report, The United States	112
Call to action	115
■ Energy efficiency action in IEA member countries	115
■ Concluding remark	116
Abbreviations and acronyms	117
References	118
Annex 1: Consolidated list of 25 IEA energy efficiency recommendations	119

List of figures

Figure 1: Level of implementation of applicable IEA recommendations, all IEA countries, all recommendations	12
Figure 2: Progress with implementing IEA 25 energy efficiency recommendations, all recommendations, all IEA member countries	13
Figure 3: Progress with implementing building recommendations	17
Figure 4: Economy-wide energy savings from improvements in energy efficiency, IEA17	19
Figure 5: Progress with implementing recommendations relating to common savings measurement, all IEA countries	24
Figure 6: Progress with implementing indicators-related recommendations, all IEA countries	25

Figure 7:	Progress with establishing legal and institutional infrastructure for ensuring compliance with energy efficiency requirements, all IEA countries	25
Figure 8:	Progress with implementing the recommendation relating to regular and public reporting of monitoring activities, all IEA countries	26
Figure 9:	Progress with implementing the recommendation relating to enforcement regimes of energy efficiency regulations, all IEA countries	26
Figure 10:	Progress with implementing the recommendation relating to mandatory energy efficiency standards for new buildings, all IEA countries	26
Figure 11:	Progress with implementing the recommendation relating to 30-year cost-minimising efficiency standards for new buildings, all IEA countries	27
Figure 12:	Progress with implementing recommended policies relating to existing buildings, all IEA countries	27
Figure 13:	Progress with implementing the recommendation relating to building certification recommendations, all IEA countries	27
Figure 14:	Progress with implementing the recommendation relating to energy efficiency regulations for set-top boxes, all IEA countries	28
Figure 15:	Progress with implementing recommended policies relating to standby power, all IEA countries	28
Figure 16:	Progress with implementing recommended policies relating to phase-out of incandescent lamps, all IEA countries	29
Figure 17:	Progress with implementing recommended policies relating to tyres, all IEA countries	30
Figure 18:	Progress with implementing recommended policies relating to eco-driving, all IEA countries	31
Figure 19:	Progress with implementing recommended policies relating to energy audits assistance and best practices for SMEs, all IEA countries	32
Figure 20:	Progress with implementing recommended policies relating to encouraging utilities to promote energy efficiency, all IEA countries	32
Figure 21:	Progress with implementing recommended policies relating to common savings measurement, all IEA countries . .	35
Figure 22:	Progress with implementing recommended policies relating to public-private partnerships in energy efficiency finance, all IEA countries	35
Figure 23:	Progress with implementing indicators-related recommendations, all IEA countries	35
Figure 24:	Progress with implementing recommended policies to support the introduction of PEH or ZEB, all IEA countries . .	36
Figure 25:	Progress with implementing recommended policies relating to market share targets for PEH or ZEB, all IEA countries	36
Figure 26:	Recorded fall in average electricity consumption and prices for several major appliance types in selected countries . .	37
Figure 27:	Progress with implementing recommended policies relating to resources allocated to ensure stringency in appliance MEPS, all IEA countries	38
Figure 28:	Progress with implementing recommended policies relating to television service provider contracts, all IEA countries . .	38
Figure 29:	Progress with implementing recommended policies relating to tyres and fuel efficiency standards for light duty vehicles, all IEA countries	39
Figure 30:	Projected sector CO ₂ savings potentials	40
Figure 31:	Progress with implementing recommended policies relating to motor energy efficiency standards, all IEA countries . .	40
Figure 32:	Progress with implementing recommended policies relating to small and medium-sized enterprises, all IEA countries . .	41
Figure 33:	Progress with implementing recommended policies relating to encouraging utilities to promote energy efficiency, all IEA countries	41
Figure 34:	Progress with implementing IEA 25 energy efficiency recommendations, all recommendations, all IEA countries . .	43
Figure 35:	Level of implementation of applicable IEA recommendations, all IEA countries, all recommendations	44
Figure 36:	Comparison of country progress with implementing applicable cross-sectoral recommendations	46

Figure 37:	Comparison of country progress with implementing applicable buildings recommendations	46
Figure 38:	Comparison of country progress with implementing applicable appliance recommendations	47
Figure 39:	Comparison of country progress with implementing applicable lighting recommendations	47
Figure 40:	Comparison of country progress with implementing applicable transport recommendations.	48
Figure 41:	Comparison of country progress with implementing applicable industry recommendations	48
Figure 42:	Comparison of country progress with implementing applicable utility recommendations	49
Figure 43:	Changes in final energy intensity in IEA countries (purchasing power parity) from 1990 to 2007	51
Figure 44:	Changes in final energy intensity in IEA countries (market exchange rates) from 1990 to 2007	51
Figure 45:	Decomposition of final energy intensity changes for IEA17 countries, 1990 to 2006	52

List of tables

Table 1:	Colour grading system used for reporting progress with implementing energy efficiency policies	17
Table 2:	Summary of strengths and innovations in IEA member country energy efficiency policy.	23
Table 3:	Summary of challenges and areas for improvement in IEA member country energy efficiency policy	33
Table 4:	Summary of actions needed in IEA member countries	116