

Keyword index

Symbols

3D printing 213

A

action plan 67, 83
activity patterns 441
additive manufacturing 213
adoption 689
agreements 83
air pollutants 721
assessments 171
audit 405
audit programme 59
automatic control 239
awareness 289, 659, 667

B

barriers 301, 579, 667, 711
behaviour 59
behavioural change 591, 659
benchmarking 637
best available technologies
(BATs) 113, 515
best practice 289, 637, 667
boilers 449
bottom-up 591
bottom-up approach 461
building infrastructure 495
building stock model 461
business models 689, 703
business strategy 703

C

carbon capture and storage 515
carbon emissions 279, 353, 405
carbon free industry 233
case studies 67, 591
China 37, 721
choice model 475
climate change mitigation 201
climate policy 149
CO₂ emissions 601
CO₂ reduction 393
CO₂ savings 47, 745
co-benefits 721
commercial buildings 83, 461, 495

commercial programmes 83
competitiveness 273, 331
compressed air 475
continuous improvement 547
control and monitoring devices 613
cooling 389
cooperation 113, 411
corporate investment decisions 411
cost benefit 101
cost reduction 389
customer behaviour 591, 703

D

database 31
decision-making process 191, 591,
659
decomposition 261
demand analysis 461
demand response 561, 579
demand side management 561
die-casting mold 569
diffusion 505
dissemination 91
district heating 379, 393, 405,
529, 537
dryers 547

E

ecodesign 449
Ecodesign Directive (EuP/ErP) 331,
363, 449
eco-efficiency 191
econometric evaluation 273
economic analysis 475
education 47, 667, 677
efficiency 405
electricity 311, 393
electricity bill 301
electricity use 279
electric motors 67, 113, 475
electric motor systems 289
end-use demand 31
end-use efficiency 101, 233
energy analysis 179, 487
energy assessment 555, 637
energy audit 47, 435, 555

energy consumption 261
energy cost 273
energy culture 659
energy demand 223, 475
energy demand side 31, 579
energy efficiency assessment 67, 163,
223, 247, 353
Energy Efficiency Directive (EED) 19,
461
energy efficiency financing 19
energy efficiency gap 579
energy efficiency improvements 389,
505, 547, 619, 683
energy efficiency investments 301,
677, 711, 721, 733, 745
energy efficiency measures 91, 393,
555, 683
energy efficiency network 629
energy efficiency obligation 19
energy efficiency opportunities 83
energy efficiency policy 75, 629, 647
energy efficiency programmes 75,
121, 149, 323, 647
energy efficiency resource
acquisition 121
energy efficient technologies 213, 487
energy intensity forecast 261
energy-intensive industry 393, 555,
629, 683
Energy Labelling Directive 363
energy management 121, 555, 591,
637, 677
energy management system 47, 67,
101, 239, 601, 647, 683, 689
energy model 441
energy monitoring 19, 591
energy performance 179
energy performance contracting
(EPC) 745
energy performance indicators 601
energy policy 273, 301, 311, 379
energy price 441
energy review 683
energy saving assessment 37
energy saving methodology 113, 435
energy savings 59, 133, 745

- energy savings certificates 19
energy savings potential 213, 323, 341
energy services 133
energy suppliers 121
energy use 31
enforcement 143
environmental impact 213
environmental policies 143
environmental practices 191
ESCO market development 323
ESCO market potential 323
ESCOs 133
evaluation 3
everyday life 591
exergy 163
exergy analysis 179
- F**
financial incentives 67, 289
financing 745
flexible process 561
food industry 233
framework 637
free trade areas 371
- G**
greenhouse gas emission reduction ... 721
green investments 745
- H**
hardness 569
harmonised accounting 279
heat exchanger 423
heating stock model 461
heating systems 179, 461
heat pump 547
high-speed steel 569
holistic 171
hydrogen 515
- I**
impact assessment 273, 311
industrial ecology 163
industrial energy saving 37, 47, 55, 67, 91, 113, 121, 149, 163, 213, 363, 411, 423, 461, 619, 659, 683
industrial processes 233, 515, 561
industrial SME 75, 619
industrial symbiosis 423
innovation 213
integration 529, 537
inter-site heat integration 423
investment behaviour 733
investment decision-making 677, 711, 733
- Iran 323
iron and steel 341
iron and steel industry 261, 721
- K**
key performance indicators (KPI) ... 435
- L**
labelling 331
learning curve 341
legislation 67, 143
lessons learned 3
life cycle cost (LCC) 113
linear drives 475
load management 579
load shift 579
local and regional energy planning. . . 379
logistics 247
long-term planning 353
low carbon targets 515
low-temperature heating grids ... 529, 537
- M**
management factors 591
mandatory standard 647
manufacturing 163, 179
market transformation 677
martensite 569
material efficiency 201
measure adoption rates 59
measurement and evaluation 19
measurement and verification 133
memorandum of understanding 83
minimum energy efficiency standards 289
model 619
modelling 191, 201, 239, 247, 461, 529, 537
multi-energy sources 441
multiple-energy benefits (MEBs) ... 711
municipal solid waste treatment 555
- N**
networks 619
non-energy benefits (NEBs) ... 121, 171, 711, 733
non-tariff market barriers 371
- O**
operational tools 667
optimal operating conditions 163
optimisation 239, 353, 441, 659
opt-out 149
organic Rankine cycle (ORC) 393
organisational measures 667
organisation behaviour 677
- P**
parameter optimization 569
peak and off-peak production 223
petroleum refineries 487
pinch analysis 423
plug loads 613
policies and measures 19, 289, 331
policy 495
policy evaluation 311, 331, 353
policy implementation 121
policy-induced savings 55
policy measures 91
policy programme 101
policy recommendations 423
power losses 279
prices 311
primary energy 461
process 31, 435, 495
process evaluation 163, 191
process heating 37
productivity 247
profit maximization 389
profits 389
programme evaluation 149
programmes 47
promoting factors 667
public buildings 495
public lighting 495
public private partnerships 689
pulp and paper industry 301
- Q**
qualitative study 191, 591
quality assurance instruments 133
- R**
ratepayer-funded programs 121
real options analysis 411
recycling 201
regional planning 55
regulation 371, 647
re-industrialisation 515
renewable energy 405
renewables integration 561
residential buildings 495
residential lighting 495
resource efficiency 179
resources 179
retained austenite 569
retrofit 745
roughness 569
- S**
savings 83
sawmill industry 683
self-direct 149

- simplification 133
simulation 441
SME 405
socio-technical 591
software 233
standards 47
strategic decision-making 67, 677
strategic investments 733
supply 371
supply chain 113
surplus heat 547
sustainability 47, 55, 163, 191, 405, 619
sustainable development 239
system analysis 113, 405
system design 495
system solution 613
- T**
technical innovation 341
technical insulation 47
- techno-economic assessment ... 529, 537
technology dissemination 505
technology innovation 213, 331, 389
technology-rich model 353
technology structure 261
textile manufacturing 223
thermal energy 461
thermal insulation 47
TIPCHECK 47
tool 191, 683
total site analysis 411
training 47, 667, 677
transdisciplinary scenario
 development 515
transportation 495
trends 371
- U**
urban planning 495
user behaviour 667
user-friendly 613
- user perspective 591
utilities 149, 279
- V**
variability analysis 659
voluntary agreements 3, 59, 101
- W**
waste heat 179, 529, 537
waste heat recovery 279, 379, 393, 423, 505
web tools 171
white certificates 19
wind power 561
- Z**
zero-carbon technologies 233, 389