
**Sustainable development in
communities — Inventory of
existing guidelines and approaches
on sustainable development and
resilience in cities**

*Développement durable des communautés — Recensement des lignes
directrices existantes et approches sur le développement durable et
résilience dans les villes*

Sample Document

get full document from standards.iteh.ai



Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	vii
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Compilation of guidelines and approaches	1
4.1 ASEAN/ESC model cities programme	1
4.2 Citizen's guide to biosphere eco-cities: Finding a balance between people and nature for your city and countryside	2
4.3 User's manual for the city biodiversity index	2
4.4 Eco ² cities guide: Ecological cities as economic cities	3
4.5 European common indicators: Towards a local sustainability profile	3
4.6 Global urban indicators — Selected statistics: monitoring the habitat agenda and the millennium development goals	4
4.7 Cities and green growth: A conceptual framework	4
4.8 Reference framework for sustainable cities (RFSC): Testing results and recommendations	5
4.9 Eco-model city project (EMCP): Regional revitalization project, eco-model cities leading the transformation to the low-carbon society	5
4.10 ÉcoQuartier	6
4.11 Pearl rating system for Estidama: Emirate of Abu Dhabi	6
4.12 Green communities assistance kit	7
4.13 China's development of low-carbon eco-cities and associated indicator systems	7
4.14 National eco-garden city evaluation standards	7
4.15 Sustainable approach for social housing in Brazil (Selo Casa Azul CAIXA)	8
4.16 Public environmental accounting: International context, trends and concrete examples [City and Local Environmental Accounting and Reporting (CLEAR)]	8
4.17 Making EcoDistricts: Concepts and methods for advancing sustainability in neighbourhoods	9
4.18 GreenClimateCities program: Pathway to urban low-carbon development	9
4.19 Tianjin eco-city	9
4.20 Green City index: Summary of the green city index research series	10
4.21 How smart is your city? Helping cities measure progress	10
4.22 Citizen's guide to LEED® for neighbourhood development: How to tell if development is smart and green	11
4.23 CLIMATE+ development program: Framework for climate positive communities	11
4.24 Comprehensive manual for the community capital scan	12
4.25 Enterprise green communities criteria	12
4.26 Foundation for sustainable area development: Assessments for area developments	12
4.27 Global city indicators facility briefing documents	13
4.28 International eco-city framework and standards	13
4.29 Living building challenge 2.1: Visionary path to a restorative future	14
4.30 Common international targets	14
4.31 SlimCity: Cross-industry public-private initiative on urban sustainability	15
4.32 Sustainability Tools for Assessing and Rating (STAR) community rating system	15
4.33 Sustainable Cities Index 2010: Ranking the 20 largest British cities	15
4.34 Sustainable communities program	16
4.35 Sustainable cities program	16
4.36 BREEAM communities — Technical manual	17
4.37 Comprehensive assessment system for built environment efficiency (CASBEE®) for Cities	17
4.38 German Sustainable Building Council	18
4.39 Eco-city development index system	18

4.40	Green star communities: Guide for local government.....	19
4.41	IGBC green townships (for townships and large developments) rating system — Pilot version abridged reference guide.....	19
4.42	LEED® for neighbourhood development.....	20
4.43	Environmental accounting for people and places: Resources and Energy Analysis Programme (REAP).....	20
4.44	Cities and biodiversity outlook — Action and policy: Global assessment of the links between urbanization, biodiversity, and ecosystem services.....	21
4.45	Global assessment report on disaster risk reduction.....	21
4.46	UNISDR terminology on disaster risk reduction.....	21
4.47	Global competitiveness report 2013 to 2014.....	22
4.48	Partnering for service excellence: Performance measurement report.....	22
4.49	Meeting the challenge of climate change: TRCA action plan for the living city.....	22
4.50	2012 EPI: environmental performance index and pilot trend environmental performance index.....	23
4.51	2012 Global cities index and emerging cities outlook.....	23
4.52	State of the world's cities 2012/2013: Prosperity of cities.....	23
4.53	Wealthier, healthier cities: How climate change action is giving us wealthier, healthier cities.....	24
4.54	New York City local law 84 benchmarking report.....	24
4.55	BREEAM-NL Area development — Label for sustainable area development: Technical manual.....	24
4.56	Capacity building to integrate disaster risk reduction into coastal management in Indonesia.....	25
4.57	GHG protocol for community-scale greenhouse gas emissions (GPC).....	25
4.58	UK sustainable development indicators.....	25
4.59	PAS 2070 — Specification for the assessment of greenhouse gas emissions of a city: Direct plus supply chain, and consumption-based methodologies.....	26
4.60	Water sector performance indicator system (WS-PIS).....	26
4.61	Climate change adaptation-related indicators.....	27
4.62	The UK government sustainable development strategy.....	27
4.63	Ecological footprints of Canadian municipalities and regions.....	27
4.64	Indicators of disaster risk and risk management: Program for Latin America and the Caribbean summary report (second edition).....	28
4.65	Cities preparing for climate change: Study of six urban regions.....	28
4.66	Indicators for sustainability: How cities are monitoring and evaluating their success.....	28
4.67	Climate change adaptation indicators: Logic framework assessment and indicator analysis of Sida's bilateral and regional contributions under the framework of the climate change initiative.....	29
4.68	London's quality of life indicators: 2012 report.....	29
4.69	Measuring urban sustainability: Analysis of the European Green Capital Award 2010 and 2011 application round.....	29
4.70	Measuring city sustainability: Project Houston.....	30
4.71	Investing in sustainable growth: 2012 Rotterdam sustainability monitor.....	30
4.72	National Forest City.....	30
4.73	Construction index for ecological cities.....	31
4.74	Management referential system for a sustainable management operation (Référentiel du Système de Management d'une Opération d'aménagement durable).....	31
4.75	How to integrate and determine the value of the three sustainable development aspects from the conception to the development of a project (Comment intégrer et valoriser les 3 aspects du développement durable de la conception à la réalisation d'un projet).....	31
4.76	From strategy to evaluation: keys to succeed in the local Agenda 21 — Referential for the evaluation of territorial sustainable development projects (De la stratégie à l'évaluation: des clés pour réussir un Agenda 21 local — Référentiel pour l'évaluation des projets territoriaux de développement durable).....	32
4.77	Territorial Sustainable Development Projects and Local Agenda 21.....	32

4.78	Referential: A Sustainable Development for Paris (Référentiel: Un Aménagement Durable Pour Paris)	33
4.79	Sustainable development indicators: Indicators for the sustainable development national strategy 2010–2013 (Les indicateurs de développement durable: Les indicateurs de la stratégie nationale de développement durable 2010–2013)	33
4.80	Sustainable development indicators for the evaluation of urban renewal projects: INDI model – RU 2015 (Des indicateurs de développement durable pour l'évaluation des projets de renouvellement urbain: Le modèle INDI – RU 2005)	33
4.81	Some regional approaches and indicators and some indicators related to social cohesion (Quelques démarches et indicateurs régionaux and Quelques indicateurs en lien avec la cohésion sociale)	34
4.82	Reference framework for sustainable cities	34
4.83	Urban sustainable development diagnostic (Diagnostic développement durable urbain)	34
4.84	Guide for environmental quality in architecture and urbanism (Guide de la qualité environnementale dans l'architecture et l'urbanisme)	35
4.85	Sustainable cities and neighbourhoods (Ville and quartiers durables)	35
4.86	Baro'Metropole: Our Territory in Focus (Baro'Metropole: Notre Territoire à la Loupe)	35
4.87	Eco-neighbourhoods Charter: Project subject to consultation and experimentation (Charte des éco quartiers: Project soumis à concertation et expérimentation)	36
4.88	Charter for sustainable development and habitat (Charte de l'aménagement et de l'habitat durables)	36
4.89	UNISDR Disaster Resilience Scorecard for Cities	37
4.90	UNISDR Indicators of progress	37
4.91	UNISDR Post-2015 Framework for Disaster Risk Reduction: A proposal for monitoring progress	38
4.92	UNISDR local government self-assessment tool	39
4.93	Making Cities Resilient Report 2012 (UNISDR)	39
4.94	UNISDR Ten New Essentials for Making Cities Resilient	40
4.95	University of Notre Dame Global Adaptation Index	41
4.96	Resilient Cities Research Report (Grosvenor)	42
4.97	City Resilience Framework	42
4.98	2014 FM Global Resilience Index	43
4.99	Global Climate Risk Index 2015	43
4.100	Index for Risk Management — InfoRM	44
4.101	Risk Reduction Index in West Africa	45
4.102	Toolkit for Resilient Cities — Infrastructure, Technology and Urban Planning	46
4.103	The Oregon Resilience Plan	46
4.104	Planetary Boundaries Framework	47
4.105	Doughnut economics	47
4.106	Recovery Strategy for Greater Christchurch	48
4.107	Private Sector Investment Decisions in Building and Construction: Increasing, Managing and Transferring Risks: Case study of Lagos, Nigeria	49
4.108	Tourism Investment Choices and Flood Risk: Illustrative Case Study on Denarau Island Resort in Fiji	49
4.109	Flood risk management and the roles of the private sector in England	49
4.110	The Value of Seismic Risk Mitigation in Canterbury, New Zealand	50
4.111	Uncorrected land-use planning highlighted by flooding: The Alba case study (Piedmont, Italy)	50
4.112	Private Sector Investment Decisions in Building and Construction: Increasing, Managing, and Transferring Risks: A Case Study of Thailand	50
4.113	UNISDR Case Study Report	51
4.114	REDi Rating System	51
4.115	IFRC Framework for Community Resilience	51
4.116	Copenhagen Climate Adaptation Plan	52
4.117	Risk-Based Land-Use Guide	53
4.118	Enhancing Distribution Resiliency	53
4.119	Smart City Pilot Project	53
4.120	Haimian City Pilot Project	54

4.121	Low-carbon regions and cities experimental project.....	54
4.122	Guide for comprehensive assessment of local government.....	55
4.123	Spanish Sustainable Development Strategy	55
4.124	Spanish Standardization Work Programme	55
4.125	Gradual Development of Austrian Smart City Profiles	56
5	Analysis of indicators.....	56
5.1	ISO 37120 Gap analysis — Resilience indicators.....	56
5.2	Analysis and correlation of guidelines and approaches with purposes and issues from ISO 37101	59
5.2.1	General.....	59
5.2.2	Reference framework for European sustainable cities.....	60
5.2.3	Baro Metropole (City of Rennes)	63
5.2.4	Reference framework for territorial sustainable development projects and local Agenda 21	66
5.2.5	Green communities.....	68
5.2.6	Urban indicators guidelines.....	70
5.2.7	Low-carbon eco-cities.....	73
5.2.8	Star community rating system.....	74
5.3	Analysis of CASBEE® guidelines and approaches	77
5.3.1	CASBEE® for urban development.....	77
5.3.2	CASBEE® for cities.....	80
5.3.3	CASBEE® for market promotion — Reflecting UNEP FI PWG's support for concise metrics.....	82
5.4	Analysis and correlation of UNISDR ten new essentials with ISO 37120	85
6	Selection of indicators.....	92
6.1	General.....	92
6.2	Collection of information.....	93
6.3	Statistical considerations: Time series, missing data and interpretation in context	93
6.3.1	General.....	93
6.3.2	Time series.....	94
6.3.3	Missing data.....	94
6.3.4	Interpretation in context	94
6.4	Priorities and approaches for individual cities.....	94
	Bibliography	96

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 268, *Sustainable cities and communities*.

get full document from standards.iteh.ai

Introduction

This document is the second in a new series of International Standards on indicators for sustainable development, resilience and smartness in cities.

ISO 37120 was published in May 2014 and became the first ever International Standard for cities to be published. The main objective of ISO 37120 was to establish a set of standardized indicators to track and monitor progress on city performance.

In the time since the publication of ISO 37120, cities have increasingly identified a need to measure the implementation and efficacy of resilience initiatives. The well-being of societies and communities relies daily on a web of institutions, infrastructure and information. Uncertainty, pressures and extreme events (caused by climate change, natural disasters, food, water and energy insecurity, disease, economic fluctuation, terrorism and social unrest) all pose threats and challenges to functioning of these systems and the well-being of citizens. The capability of cities to prepare for, respond to, and recover from these threats and challenges with minimum damage to public safety and health, the economy, and security is increasingly referred to as resilience.

Many of the indicators in ISO 37120 address sustainable development and resilience; however, it is recognized that these two subjects require a more in depth study. For this reason, ISO/TC 268 has approved the publication of this document with the objective of developing an inventory of existing guidelines and approaches on sustainable development and resilience in cities which can be used in the future to complement ISO 37120.

The guidelines and approaches in this document are the contribution of experts from ISO/TC 268 and have been selected based on their social, economic and environmental contributions towards building more sustainable and resilient cities. This document is not intended to be an exhaustive inventory and is currently only to the date of publication. As a second phase and considering the urgent need to address resilience in cities, TC 268 intends to develop an International Standard to define and establish definitions and methodologies for indicators for resilient cities. The objective of this new standard in the series will be to establish a set of indicators that can be used with any resilience framework to help cities with their resilience planning and will be built upon the guidelines and approaches contained in this document.

A gap analysis with ISO 37120 and an analysis and correlation with the UNISDR Ten New Essentials has been carried out in [Clause 5](#). This work will be considered and further expanded in the development of a future new International Standard on Indicators for Resilient Cities.

Sustainable development in communities — Inventory of existing guidelines and approaches on sustainable development and resilience in cities

1 Scope

This document provides an inventory of existing guidelines and approaches on sustainable development and resilience in cities.

This document focuses on resilience understood as the ability of a city, system, community, local government or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions.

Resilience indicators are intended to assess the extent to which cities are helping residents, businesses, institutions, and infrastructure resist, absorb, accommodate to and recover from the effects of hazards in a timely and efficient manner.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Compilation of guidelines and approaches

This document is designed to provide cities, researchers, experts, international organizations, industry leaders and other interested parties with a compilation of documents containing resilience and sustainable development indicators. The documents considered in this document were provided and selected by TC 268 experts on city indicators, sustainability and resilience from 20 countries and they are not considered to be an exhaustive list. TC 268 experts provided examples of frameworks and indicators based on their knowledge of work being completed by organizations within their countries or international agencies. Note that hyperlinks are current as of March 24, 2016.

4.1 ASEAN/ESC model cities programme

Framework	Association of Southeast Asian Nations (ASEAN) Environmentally Sustainable Cities (ESC) Model Cities Programme
Author	Japan-ASEAN Integration Fund
Publication year	2011 to 2014
Applicability	National, regional, local
Theme	Environmental sustainability

Purpose	To promote the development of environmentally sustainable cities across ASEAN countries.
Abstract	The ASEAN ESC Model Cities Programme is a regional initiative aimed at promoting the development of Environmentally Sustainable Cities (ESC) across ASEAN countries. It provides seed funding, technical assistance and other forms of support to raise local capacity for implementing innovative and voluntary bottom-up initiatives, as well as to strengthen national ESC guidelines and approaches and actions that facilitate the replication and scaling up of good practices and policies within and across countries.
Hyperlink	http://aseanmodelcities.org/

4.2 Citizen's guide to biosphere eco-cities: Finding a balance between people and nature for your city and countryside

Framework	Citizen's guide to biosphere eco-cities: Finding a balance between people and nature for your city and countryside
Author	UNESCO
Publication year	2009
Applicability	Local
Theme	Environment
Purpose	To protect the biosphere from increasing impacts of human activities by addressing natural and human needs together.
Abstract	A biosphere eco-city is a region containing an urban area and its surrounding countryside where people and organizations demonstrate innovative ways to adjust human activities in order to support nature while improving the quality of urban and rural life. These urban-centred regions share ideas and results with each other and together form the World Network of Biosphere Eco-Cities. Through their collective efforts to reduce human impacts on nature, they help to sustain the biosphere.
Hyperlink	http://www.unesco.org/mab/doc/icc/2009/e_ecoCities.pdf

4.3 User's manual for the city biodiversity index

Framework	User's manual for the city biodiversity index
Author	Participants at the first expert workshop on the development of the city biodiversity index
Publication year	2012
Applicability	National, local
Theme	Biodiversity

Purpose	To develop the City Biodiversity Index (CBI), as a self-assessment tool, to assist national governments and local authorities in benchmarking biodiversity conservation efforts in the urban context, and help evaluate progress in reducing the rate of biodiversity loss in urban ecosystems.
Abstract	The CBI comprises a profile of the city, listing background information relevant to biodiversity conservation, indicators to be evaluated, and a calculation of the index. The manual contains the rationale for selection of indicators, how to calculate the indicators, where to get data for the calculations, and the basis for the scoring. The method of scoring is quantitative in nature. To ensure that the scoring is unbiased and fair to a broad spectrum of cities of different characteristics over a wide geographical range, statistical analysis will be applied to the data provided by the cities.
Hyperlink	http://www.cbd.int/authorities/doc/User's%20Manual-for-the-City-Biodiversity-Index18April2012.pdf

4.4 Eco² cities guide: Ecological cities as economic cities

Framework	Eco ² cities guide: Ecological cities as economic cities
Author	World Bank: Sebastian Moffatt; Hiroaki Suzuki; Ryoko Iizuka
Publication year	2012
Applicability	Regional, Local
Theme	Ecological and economic sustainability
Purpose	To help cities in developing countries achieve greater ecological and economic sustainability in synergy.
Abstract	Eco cities is a sustainable urban development initiative launched by the World Bank as an integral part of its urban and local government strategy. An integrated approach across sectors appears to overcome many barriers to urban sustainability, and offers communities a path towards increased well-being for short and long terms. The guide starts with an overview of the principles, and a self-assessment exercise that can help identify where a city is strong or needs improvement. The guide then highlights essential, practical elements of planning and implementing Eco2 cities.
Hyperlink	http://siteresources.worldbank.org/INTURBANDEVELOPMENT/ Resources/336387-1270074782769/Eco2_Cities_Guide-web.pdf

4.5 European common indicators: Towards a local sustainability profile

Framework	European common indicators: Towards a local sustainability profile
Author	Ambiente Italia Research Institute: Maria Berrini; Lorenzo Bono; Giulia Ferrari; Valentina Tarzia; Michele Merola
Publication year	2003
Applicability	Local
Theme	Sustainability

Purpose	To develop and test indicators reflecting local actions towards sustainability in as much an integrated way as possible.
Abstract	The ECI initiative was started off in May 1999 with the setting up of a working group on sustainable indicators with the task to develop common (harmonized) indicators for local sustainability, in close collaboration with a wider group of local authorities. ECI is characterized by a good level of complementarity with respect to existing local, national and sectorial indicators' sets, since it was not defined to displace or compete with any local/national priority therein reflected. In fact, the ECIs aim at representing local action towards sustainability in as much an integrated way as possible.
Hyperlink	N/A

4.6 Global urban indicators — Selected statistics: monitoring the habitat agenda and the millennium development goals

Framework	Global urban indicators — Selected statistics: monitoring the habitat agenda and the millennium development goals
Author	United Nations Human Settlements Programme
Publication year	2009
Applicability	National, local
Theme	Poverty, health, equality, education, environmental sustainability
Purpose	To ensure a common assessment and appreciation of the status of MDGs at global, national and local levels.
Abstract	The millennium development goals (MDG) adopted by the UN member states in the year 2000 are broad goals for the entire world. They address essential dimensions of poverty and their effects on people's lives attacking pressing issues related to poverty reduction, health, gender equality, education and environmental sustainability. In order to assist member states realize the eight goals of the Millennium Declaration, the United Nations System has set numerical targets for each goal. Further, it has selected appropriate indicators to monitor progress on the goals and attain corresponding targets. A list of 18 targets and more than 40 indicators corresponding to these goals are included.
Hyperlink	N/A

4.7 Cities and green growth: A conceptual framework

Framework	Cities and green growth: A conceptual framework
Author	Organization for Economic Co-operation and Development: Stephen Hammer, Lamia Kamal-Chaoui, Alexis Robert, and Marissa Plouin
Publication year	2011
Applicability	Local
Theme	Green growth

Purpose	To promote an urban green growth agenda by examining the economic and environmental conditions that have pushed the green growth agenda to the forefront of policy debate and assessing the critical role of cities in advancing green growth.
Abstract	This report examines the current state of knowledge about green growth in cities and outlines the key research questions and protocols that will guide the OECD green cities programme. The report includes suggestions for future research, including recommendations on how national policymakers responsible for regional and urban policies can advance an urban green growth agenda.
Hyperlink	http://www.oecd.org/gov/regional-policy/49330120.pdf

4.8 Reference framework for sustainable cities (RFSC): Testing results and recommendations

Framework	Reference framework for sustainable cities (RFSC): Testing results and recommendations
Author	European Union, member states and local authorities
Publication year	2012
Applicability	Local
Theme	Sustainability
Purpose	Reference framework is an online toolkit to assist actors of urban management and development to improve dialogue and action on sustainability. It offers a multi-purpose decision-making and communication tool for promoting sustainable urban development. It is not place-specific and can be adapted to suit local priorities and different circumstances. The tool shows and explains step-by-step what actions are possible or necessary to organize the process in a city or municipality, that is to say to help the city develop in an integrated manner. The users are guided through a series of questions to explore their city's approach to sustainability and provide them with tools for improving this.
Abstract	The RFSC is a voluntary, adaptable, flexible, non-binding, and free of access tool to stimulate sustainable and integrated urban development in European cities and in line with the Europe 2020 goals. The RFSC will provide a generally accepted common framework for sustainable urban development, create and promote a common understanding about the benefits of integrated urban development policy approaches, provide practical instruments for cities that encourage and facilitate skills and capacity building to better manage urban development, provide a set of quality material and instruments that allow for communication within and between cities on the basis of a common format, and encourage the dialogue and exchange within and beyond Europe's cities on the implementation of integrated urban development approaches at city-level and facilitating the European dialogue on sustainable urban development policies at all levels.
Hyperlink	http://rfsc.eu/

4.9 Eco-model city project (EMCP): Regional revitalization project, eco-model cities leading the transformation to the low-carbon society

Framework	Eco-model city project (EMCP): Regional revitalization project, eco-model cities leading the transformation to the low-carbon society
Author	Regional Revitalization Bureau, Cabinet Secretariat, Government of Japan
Publication year	2009
Applicability	Local
Theme	Low-carbon society

Purpose	To establish a local model that realizes simultaneously the pursuit of a low-carbon society and sustainable development, through the united efforts of local communities.
Abstract	The Eco-model city project is an innovative regional revitalization project taking actions to achieve a low-carbon society. Thirteen selected Eco-Model cities (EMCs) are supported by the Japanese national government, and serve as leaders of the Promotion Council for the Low-Carbon Cities (PCLCC), which is a platform for local governments seeking to create low-carbon cities. Actors from PCLCC, the consortium of local governments, prefectures, national governments and public agencies are producing best practices and expand them to other cities in Japan and abroad.
Hyperlink	N/A

4.10 ÉcoQuartier

Framework	ÉcoQuartier
Author	Ministry of Housing and Territorial Equality (France)
Publication year	2012
Applicability	Local
Theme	Sustainable development
Purpose	To promote social diversity by undertaking new, more sustainable development projects incorporating local expertise.
Abstract	An “ÉcoQuartier” is an urban development project that includes principles of sustainable development while adapting to the characteristics of its surroundings. These districts promote the responsible management of resources, integrate into existing cities and surrounding areas, encourage economic growth, providing housing for all, encourage social diversity, and offer residents a role in developing a shared vision for their community.
Hyperlink	http://www.territoires.gouv.fr/

4.11 Pearl rating system for Estidama: Emirate of Abu Dhabi

Framework	Pearl rating system for Estidama: Emirate of Abu Dhabi
Author	Abu Dhabi Urban Planning Council
Publication year	2010
Applicability	Regional, local
Theme	Sustainability
Purpose	To create more sustainable communities, cities and global enterprises and to balance the four pillars of sustainability: environmental, economic, cultural and social.
Abstract	Estidama, which means ‘sustainability’ in Arabic, is the initiative which will transform Abu Dhabi into a model of sustainable urbanization. The aspirations of Estidama are incorporated into Plan 2030 and other Urban Planning Council (UPC) policies such as the Development Code. Estidama began two years ago and is the first program of its kind that is tailored to the Middle East region. In the immediate term, Estidama is focused on the rapidly changing built environment. One of Estidama’s key initiatives is the Pearl Rating System, which provides design guidance and detailed requirements for rating a project’s potential performance in relation to the four pillars of Estidama.
Hyperlink	http://estidama.upc.gov.ae/template/estidama/docs/PBRS%20Version%201.0.pdf

4.12 Green communities assistance kit

Framework	Green communities assistance kit
Author	United States Environmental Protection Agency
Publication year	2013
Applicability	Regional, local
Theme	Green communities, environment, socioeconomics, sustainability, health
Purpose	To enable communities to utilize the knowledge, technology and resources available to live sustainably, and to show trends and to measure progress towards goals.
Abstract	It is important to connect people with the ecosystems that support them, and communities need some order to the chaotic possibilities of indicators. Several guidelines and approaches are being used by communities to help develop sustainable indicators: domain-based, goal-based, sectoral, issue, causal, and combination. Guidelines and approaches not only sort indicators but they also help balance the many issues facing communities. Gaps and duplications in collection efforts can be identified. A summary of domain-based and goal-based indicators with examples of each are presented.
Hyperlink	N/A

4.13 China's development of low-carbon eco-cities and associated indicator systems

Framework	China's development of low-carbon eco-cities and associated indicator systems
Author	China energy group: Nan Zhou, Gang He, and Christopher Williams
Publication year	2012
Applicability	Local
Theme	Low-carbon society
Purpose	To review and analyse major indicator systems used in China to identify low-carbon eco-cities.
Abstract	In the years to come, cities in China will face major challenges as their rapidly increasing populations burden already crowded infrastructure systems and exacerbate environmental and climate change issues, threatening public health and quality of life. Low-carbon cities may be key to addressing those challenges, especially with regards to mitigating and adapting to climate change. Despite the multiple guidelines that have been developed, it remains unclear what defines a low-carbon eco-city. Additionally, although more than 100 indicators have been used or proposed for assessing such cities, few relate directly to energy use or carbon emissions. This paper gives recommendations for future development, research, and policy design to support low-carbon eco-cities in China and the world.
Hyperlink	http://china.lbl.gov/sites/all/files/china_eco-cities_indicator_systems.pdf

4.14 National eco-garden city evaluation standards

Framework	National eco-garden city evaluation standards
Author	Ministry of Housing and Urban-Rural Development (People's Republic of China)
Publication year	2012
Applicability	Local
Theme	Environment, green cities