

STANDARDS FOR CLIMATE ACTION



PRESENTATION CONTEXT

- **European standardization**
 - CEN-CENELEC (SABE & ACC-CG)
- **International standardization**
 - ISO initiatives & standards on climate action (sdg13)

**WORLD STANDARDS
DAY 2020:
STANDARDS ARE
ESSENTIAL TO
PROTECT THE PLANET**

Protecting the Planet
with Standards



- National standardization body
- Member of CEN/CENELEC/ETSI/ISO/IEC/ITU
- Facilitating national standardization activities
- Representing Cyprus in European and international standardization through national experts
- Promoting the use of standards as a tool to improve the quality of life in every aspect

CYPRUS ORGANIZATION FOR STANDARDIZATION

CEN-CENELEC

SABE & ACC-CG

CEN- CLC/BT WG 16

- **STRATEGIC ADVISORY BODY ON ENVIRONMENT**

- SABE is a body that advises the CEN & CLC Technical Boards on issues related to environment. Stakeholders identify environmental issues of importance to the standardization system and propose ways in which to respond.

- **SABE TEAMS**

- Strategic issues: Environmental Monitoring Strategy Team (**ENV**)
- Products and services: Environmental Issues in Standardization (**ENIS**)
- Environmental Management: Environmental Management Team (**EMT**)
- Circular economy topic group



- **EU STRATEGY ON ADAPTATION TO CLIMATE CHANGE/
CLIMATE-NEUTRAL EUROPE**
- **...MAKE EUROPE MORE CLIMATE-RESILIENT**
- **CEN-CENELEC COORDINATION GROUP 'ADAPTATION TO
CLIMATE CHANGE' ([ACC-CG](#))**
 - to coordinate standardization activities and to foster collaboration in standardization work in the field of adaptation to climate change.
 - responsible for coordinating the delivery the European Commission standardization request in support of the EU strategy on Adaptation to Climate Change (M/526).
- **THREE PRIORITY SECTORS IDENTIFIED:**
 - transport infrastructure,
 - energy infrastructure and
 - buildings / construction

CLIMATE
CHANGE
ADAPTATION

GUIDELINES FOR STANDARD WRITERS

- **CEN-CENELEC GUIDE 32 'GUIDE FOR ADDRESSING CLIMATE CHANGE ADAPTATION IN STANDARDS'**

- address the consequences and implications of climate change
- checklist to help establish whether climate change adaptation is relevant to a particular standardization activity
- decision tree to help identify which actions should be taken

ELECTROTECHNICAL SECTOR

- **CENELEC TC 111X ON ENVIRONMENT**

- To deal with environmental aspects for electrical and electronic products and systems
- Mirrors the respective IEC TC 111
- Delivering standards supporting the **2012/19/EU** directive on waste electrical and electronic equipment (WEEE) and the **2011/65/EU** directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- Series of standards on environmental conscious design and requirements for the Collection, logistics & Treatment requirements for WEEE

NEW CEN/TC CLIMATE CHANGE

- UNI is proposing the creation of a new European standardization committee on climate change

ISO INITIATIVES & STANDARDS ON CLIMATE ACTIONS

UN SUSTAINABLE DEVELOPMENT GOALS

13 CLIMATE ACTION



Take urgent action to combat climate change and its impacts

- ISO has produced over 600 environment-related standards
- 341 standards contributing to SDG 13



GUIDELINES FOR STANDARD WRITERS

- **ISO Guide 84**, Guidelines for addressing climate change in standards

ISO STANDARDS FACILITATE...



Environmental
management



Communicating on
environmental
performance



Quantifying
GHG emissions



Opening world
markets to clean
energy



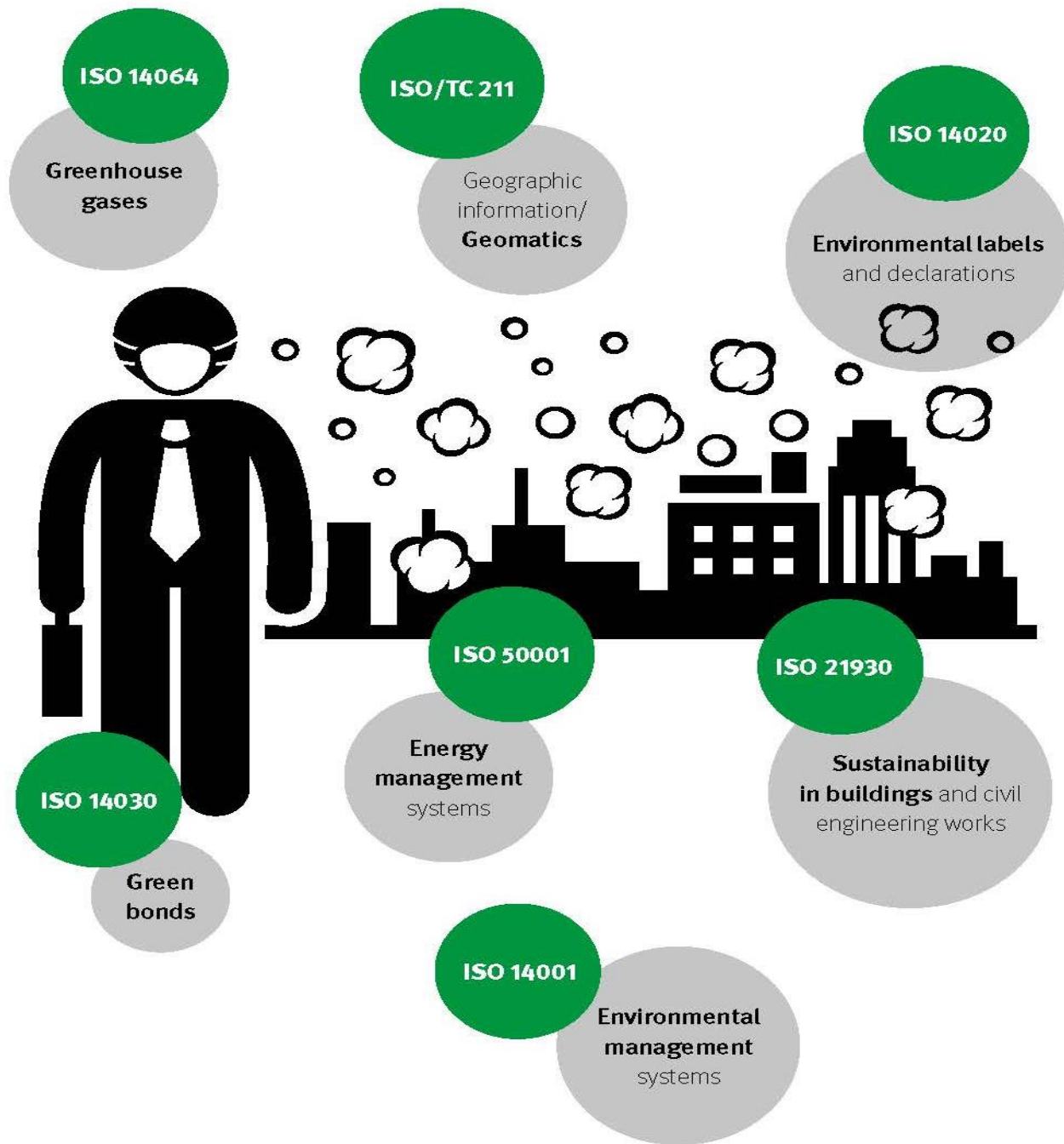
Mitigation &
adaptation



Monitoring
climate change



Financing
climate change
activities



ENVIRONMENTAL MANAGEMENT



ISO 14001, Environmental management systems – Requirements with guidance for use



ISO 14004, Environmental management systems – General guidelines on implementation



ISO 14006, Environmental management systems – Guidelines for incorporating ecodesign



ISO 14040, Environmental management – Life cycle assessment – Principles and framework

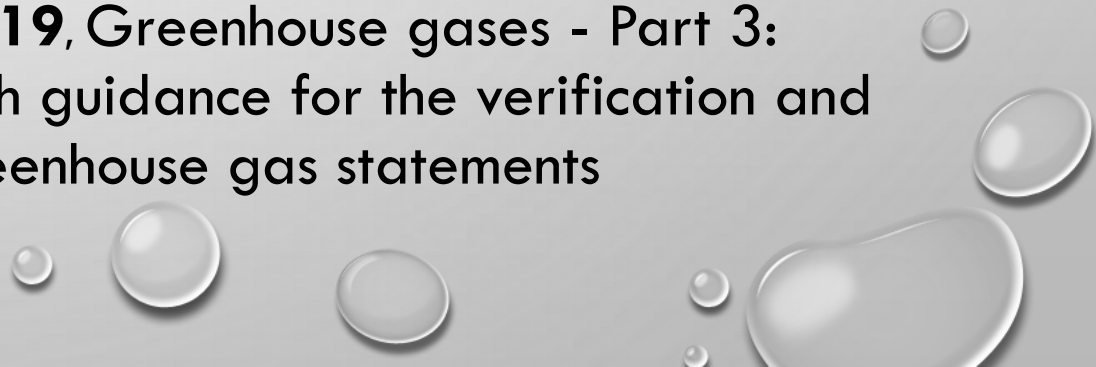


ISO 14044, Environmental management – Life cycle assessment – Requirements and guidelines



QUANTIFYING GHG EMISSIONS

- **ISO 14064-1:2018**, Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
- **ISO 14064-2:2019**, Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements
- **ISO 14064-3:2019**, Greenhouse gases - Part 3: Specification with guidance for the verification and validation of greenhouse gas statements



QUANTIFYING GHG EMISSIONS



ISO 14065:2013, Greenhouse gases -
Requirements for greenhouse gas validation
and verification bodies for use in
accreditation or other forms of recognition



ISO 14067:2018, Greenhouse gases --
Carbon footprint of products --
Requirements and guidelines for
quantification

- **ISO 14090:2019**, Adaptation to climate change - Principles, requirements and guidelines
- **ISO 14091**, Adaptation to climate change - Vulnerability, impacts and risk assessment *
- **ISO/TS 14092:2020**, GHG Management & related activities: requirement & guidance of adaptation planning for organizations including local governments and communities
- **ISO 14080:2018**, Greenhouse gas management and related activities - Framework and principles for methodologies on climate actions

CLIMATE MITIGATION/ ADAPTATION

WATER/SOIL MANAGEMENT

- **ISO 14046:2014**, Environmental management - Water footprint -- Principles, requirements and guidelines
- **ISO 16075 SERIES**, Guidelines for treated wastewater use for irrigation projects
- **ISO 20760 SERIES**, Water reuse in urban areas
- **ISO 20951**, Soil Quality -- Guidance on methods for measuring greenhouse gases (CO₂, N₂O, CH₄) and ammonia (NH₃) fluxes between soils and the atmosphere *

11 SUSTAINABLE CITIES AND COMMUNITIES



SUSTAINABLE CITIES

68% OF THE WORLD POPULATION PROJECTED TO LIVE IN URBAN AREAS BY 2050 (UN)

- **ISO 37101:2016 - SUSTAINABLE DEVELOPMENT IN COMMUNITIES — MANAGEMENT SYSTEM FOR SUSTAINABLE DEVELOPMENT — REQUIREMENTS WITH GUIDANCE FOR USE**

FLAGSHIP STANDARD, HELPS COMMUNITIES DEFINE THEIR SUSTAINABLE DEVELOPMENT OBJECTIVES AND IMPLEMENT STRATEGIES TO ACHIEVE THEM

CLIMATE FINANCE

- **ISO 14008:2019**, MONETARY VALUATION OF ENVIRONMENTAL IMPACTS AND RELATED ENVIRONMENTAL ASPECTS

ENVIRONMENTAL IMPACTS INCLUDE IMPACTS ON HUMAN HEALTH, AND ON THE BUILT AND NATURAL ENVIRONMENT. ENVIRONMENTAL ASPECTS INCLUDE RELEASES AND THE USE OF NATURAL RESOURCES.

- **ISO 14030-1**, GREEN BONDS - ENVIRONMENTAL PERFORMANCE OF NOMINATED PROJECTS AND ASSETS *

TO HARMONIZE THE DEFINITION OF GREEN BONDS AND SPECIFY REQUIREMENTS TO EVALUATE THE ENVIRONMENTAL PERFORMANCE OF THE ASSETS THEY FINANCE.



- **ISO 14097**, Framework and principles for assessing and reporting investments and financing activities related to climate change *

ASSESSING AND REPORTING INVESTMENTS AND FINANCING ACTIVITIES RELATED TO CLIMATE CHANGE – CLIMATE-RELATED METRICS

CLIMATE FINANCE

THANK YOU FOR LISTENING!

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