

Overview of standardization and mandatory technical regulation systems of Ukraine (gas and electricity)

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Overview of technical normalisation and standardization systems of the Partner Countries

Abbreviations

UA	Ukraine
CEN	European Committee for Standardization
CENELEC	European Committee for Electrotechnical Standardization
CIS	Commonwealth of Independent States
EASC	Eurasian Council for standardization, metrology and certification
EFTA	European Free Trade Association
EOTS	European Telecommunications Standards Institute
EU	European Union
IDT	Identical
IEC	International Electrotechnical Commission
ISO	International Organisation for Standardization
ITC	Interstate Technical Committee for standardization
MOD	Modified
NEQ	Not equivalent
NSB	National Standardization Body
TC	Technical Committee for standardization

Overview of technical normalisation and standartzation systems of the Partner Countries

CONTENTS

Abbreviations..... 2

I. Mandatory technical regulation 4

1. Regulatory framework (documents of mandatory technical regulation) 4

 1.1. Legislative base 4

 1.2. Types of documents in the system of mandatory technical regulation 5

 1.3. Fundamentals of mandatory technical regulation system 6

 1.4. Adoption of technical regulations..... 9

 1.5. The process of technical legislation development and adoption 10

2. Participation in the mandatory technical regulation activity 12

 2.1. Participants of national technical regulating system 12

 2.2. Membership in international and regional organisations 13

II. Standardization 14

3. Regulatory framework (documents in the area of standardization) 14

 3.1. Legislative base 14

 3.2. Types of documents used in the standardization system 15

 3.3. Fundamentals of the standardization system 16

 3.4. Implementation of international, regional and foreign standards as national standards 18

 3.5. The order of development and adoption of standardization documents 20

4. Participants of the standardization activity 21

 4.1. Main participants of standardization activities 21

 4.2. List of the existing technical committees for standardization..... 22

 4.3. Membership in international and regional organisations for standardization 29

 4.4. Participation in the activities of international and regional technical committees for standardization..... 29

Overview of technical normalisation and standartization systems of the Partner Countries

I. Mandatory technical regulation

The system of mandatory technical regulation includes basic legal documents (legal basis), mandatory technical regulations and participants of technical regulation activity.

Transition from the former Soviet Union system of technical regulation (the system of mandatory standards and other normative acts of ministries and other governmental bodies) to the two-tier system of mandatory technical regulations and voluntary standardization documents began in Ukraine in 2001¹ and has not been fully completed to date.

1. Regulatory framework (documents of mandatory technical regulation)

1.1. Legislative base

a) Laws

- On standards, technical regulations and conformity assessment procedures, № 3164-IV dated 01.12.2005 (amendments № 1107-V of 31.05.2007, № 255-VI of 10.04.2008, № 882-VI of 15.01.2009, № 2735-VI of 02.12.2010, № 4224-VI of 22.12.2011, № 5312-VI of 02.10.2012, № 5463-VI of 16.10.2012)
- On Conformity Assessment, № 2406-III dated 17.05.2001 (amendments № 2116-IV of 21.10.2004, № 3164-IV of 01.12.2005, № 882-VI of 15.01.2009, № 2755-VI of 02.12.2010, № 4224-VI of 22.12.2011, № 5312-VI of 02.10.2012 и № 5463-VI of 16.10.2012)
- Technical regulation in the economic sphere, Article 15 Commercial Code of Ukraine

¹ In 2001, the relevant law on standardization was adopted

Overview of technical normalisation and standartization systems of the Partner Countries

b) Decrees of the Cabinet of Ministers

- On approval of list of central bodies of executive power, which are assigned responsibility of technical regulation in certain spheres of activity and the development of technical regulations № 288 dated 13.03.2002
- Technical regulations of conformity assessment modules and the requirements for marking with the national mark of conformity, which are used in the technical regulations (93/465/ EEC), Decree of the Cabinet of Ministers of Ukraine № 1585 dated 07.10.2003
- On approval of the Rules of the preparation of the draft technical regulations developed on the basis of legislative acts of the European Union, approved by the Cabinet of Ministers of Ukraine, Decree № 708 dated 18.06.2012

c) Normative legal acts of public authorities

- On approval of list of products subject to mandatory certification in Ukraine, the State Committee for Technical Regulation and Consumer Policy of Ukraine Order № 28 dated 01.02.2005, registered by the Ministry of Justice of Ukraine 04.05.2005 - №466/10746

1.2. Types of documents in the system of mandatory technical regulation

- Technical regulations²
- Harmonized standards of voluntary application having "Presumption of Conformity" with the technical regulations

² Technical regulations constitute the law of Ukraine, or the legal normative act adopted by the Cabinet of Ministers of Ukraine, which define the characteristics of products or related processes and methods of production, as well as requirements to services, including the relevant provisions, with which compliance is mandatory.

Overview of technical normalisation and standartization systems of the Partner Countries

1.3. Fundamentals of mandatory technical regulation system

a) Area of application

The area of application of technical regulations is set by forming:

- exhaustive lists of products and processes that are subject to mandatory requirements, as well as the rules of identification of these products and services.
- lists of potential risks and hazards, to prevent the harmful effects of which the mandatory requirements are set in technical regulations for products or services

b) Contents of the technical regulations (basic sections):

- technical requirements that are mandatory for compliance
- rules and forms of conformity assessment
- requirements to the packaging and the content of marking of objects of technical regulation
- requirements to the composition of consumer information - if necessary

c) Acceptable methods of specifying mandatory technical requirements:

Technical requirements are set forth as follows:	
<ul style="list-style-type: none"> • by describing the specific technical requirements for the design (prescriptive technical regulations) 	<p>Not allowed except when otherwise it is impossible to ensure the safety of products</p>
<ul style="list-style-type: none"> • by describing the specific operational requirements 	<p>Allowed, but very rarely used</p>

Overview of technical normalisation and standartization systems of the Partner Countries

<ul style="list-style-type: none"> • by describing generalised technical requirements (description of possible dangers with the definition of the required level of safety, without identifying specific ways to achieve this level) 	<p>Allowed, and is mainly used</p>
<ul style="list-style-type: none"> • as references to specific standards or technical codes of practice (in this case the referenced documents become mandatory and fall into the category of technical regulations) 	<p>Allowed, but very rarely used</p>

d) Use of international and regional standards

- International or harmonized with the national standards may be used (in whole or in part) as a basis for the development of technical regulations.
- Technical regulations of trading partners of Ukraine in the manner prescribed by law are recognised as equivalent to technical regulations of Ukraine, provided that such regulations meet the objectives of technical regulations of Ukraine.

The equivalence of technical regulations of Ukraine and other countries is assessed on the basis of proposals submitted by the central body of executive power on issues of technical regulation by the interested party. The proposals should contain a copy of the foreign technical regulations and their translation into the Ukrainian language, the definition of the relevant Ukrainian technical regulations, and sufficient information to prove the equivalence of technical regulations.

After the working group establishes the equivalence of foreign technical regulations to Ukrainian technical regulations, the central executive body for technical regulation submits to the Cabinet of Ministers of Ukraine the proposals for decision making.

Overview of technical normalisation and standartization systems of the Partner Countries

The decision taken by the Cabinet of Ministers of Ukraine is published in the newsletter "Official Gazette of Ukraine", and the corresponding foreign technical regulations are entered in the register of national technical regulations.

- e) Use of "Presumption of Conformity³" of standardization documents, which are voluntary for application

The list of national standards, which in case of their voluntary application are proof of conformity with the technical regulations (harmonized standards), is formed by the central body of executive authority responsible for the development of public policy in the field of standardization, by order of central bodies of executive power.

In the absence of such standards, the central body of executive power that provides the formation of state policy in the sphere of standardization organises by order of the relevant central bodies of executive power the development of relevant standards.

The list of national standards, which in case of their application are proof of conformity with the technical regulations, is published in the official publication of the central body of executive authority responsible for the formation of public policy in the field of standardization.

The use of harmonized standards is voluntary.

The manufacturer or supplier is also entitled to verify the conformity of products with the technical regulations without using the harmonized standards, but through other means which are prescribed by technical regulations and/or legal normative acts in the field of conformity assessment.

³ Presumption of Conformity - the principle according to which it is believed that products, conforming to the requirements of the voluntary standards, meet the mandatory requirements of technical regulations, until reasonably proved otherwise.

Overview of technical normalisation and standartization systems of the Partner Countries

1.4. Adoption of technical regulations

Adopted technical regulations

	Technical regulation	Compliance with EU
1	The maximum allowable power consumption by refrigeration appliances, Decree of the Cabinet of Ministers of Ukraine 4 № 368 dated 10.05.2012	96/57/EC (identity)
2	Appliances operating on gaseous fuels	90/396/EEC (redraft)
3	Equipment and protective systems for use in potentially explosive atmospheres	94/9/EC (redraft)
4	Mobile equipment working under pressure	1999/36/EC (redraft)
5	Restriction of use of certain unsafe substances in electrical and electronic equipment	2002/95/EC (redraft)
6	Marking of lamps for household use related to the efficiency of energy consumption	98/11/EC (redraft)
7	Safety of lifts	95/16/EC (redraft)
8	Safety of simple pressure vessels	87/404/EEC (redraft)
9	Electromagnetic compatibility of equipment, Decree of the Cabinet of Ministers № 631 dated 20.06.2012	2004/108/EC (identity)

⁴ The Cabinet of Ministers of Ukraine

Overview of technical normalisation and standartization systems of the Partner Countries

10	Safety of low-voltage equipment, Decree of the Cabinet of Ministers № 810 dated 29.08.2012	73/23/EC (identity)
11	Safety of radio-equipment and telecommunications final (terminal) equipment	1999/5/EC (redraft)
12	Energy labelling for of electrical appliances for household use	92/75/ EC (redraft)
13	Energy labelling for of household refrigerators, freezers and their combinations	95/12/EC (redraft)
14	Energy labelling for household washing machines	95/12/EC (redraft)

1.5. The process of technical legislation development and adoption

The development of technical regulations is carried out in accordance with the work programme, which is updated annually and is approved by the central executive authority, implementing the state policy in the sphere of technical regulation.

The annual programme for development of technical regulations must comply with the annual action plan for the implementation of the National Programme for adaptation of legislation of Ukraine to the EU legislation.

The development of technical regulations is carried out by working groups, which are formed by the central bodies of executive power empowered by the law to organise the development of technical regulations.

The working groups are composed of:

- representatives of the central executive body that implements the national policy in the sphere of technical regulation;
- representatives of other central executive authorities and organisations authorised to carry out work on the development of technical regulations in the sphere of their competence;

Overview of technical normalisation and standartization systems of the Partner Countries

- representatives of the of technical committees for standardization;
- representatives of all stakeholders in consultation with the central executive body that implements the national policy in the sphere of standardization;
- any competent persons invited to participate in the working groups as experts.

The Secretary of the working group is appointed from the employees of the relevant central executive authority or their subordinate organisations.

Process of the development of national standards includes the following:

- Preparation of a draft technical regulation
- Publication of notification about the initiation of public comment on draft technical regulations
- Collection of comments and proposals from all the stakeholders
- Analysis of obtained comments and proposals, preparation of the final draft of the technical regulations
- Acceptance or rejection of technical regulations

Upon completion of the final draft of technical regulations, the working group submits the draft to the relevant central executive authority that coordinates it with all relevant central bodies of executive power.

The central body of executive power, which provides the formation of national policy in the sphere of technical regulation, submits the coordinated draft of technical regulations to the Cabinet of Ministers of Ukraine for its subsequent adoption.

- Publication of technical regulations

After being adopted by the Cabinet of Ministers of Ukraine, the technical regulations are published in the newsletter "Official Gazette of Ukraine".

Technical regulations enters into validity no earlier than 6 months from the date of their publication in the newsletter "Official Gazette of Ukraine", with the

Overview of technical normalisation and standardization systems of the Partner Countries

exception of cases where unforeseen circumstances in the field of defence, public health, national security, safety of human life and health, protection of environment or natural resources, require the immediate adoption of the appropriate technical regulations.

2. Participation in the mandatory technical regulation activity

2.1. Participants of national technical regulating system

a) The Cabinet of Ministers

- coordinates and directs the central bodies of executive power, which are assigned functions of technical regulation in specific spheres of activity, including the development of technical regulations;
- approves technical regulations, if they are not adopted by the law;
- signs the international treaties of Ukraine on the equivalence of foreign and national technical regulations.

b) Ministry of Economic Development and Trade - central executive body for technical regulation (authorised body for technical regulation)

- coordinates the development of technical regulations and activities of bodies that supervise the market over the objects of technical regulations;
- prepares the programme for development of technical regulations;
- organises the development of rules and procedures of market surveillance over the objects of technical regulations in coordination with other central bodies of executive power

c) Working group for development of technical regulations

- are created by the central bodies of executive power, which are empowered by the law to organise the development of technical regulations

Overview of technical normalisation and standardization systems of the Partner Countries

- Secretary of the working group is appointed by the respective central body of executive power from its own employees or its subordinate organisations
- d) Central executive body in charge of standardization - Ministry of Economic Development and Trade
- participates in the development and coordination of technical regulations;
 - on request from central bodies of the executive power, develops and adopts national standards, which in case of their voluntary application are proof of conformity with the technical regulations, and creates and publishes their list.

2.2. Membership in international and regional organisations

In the field of technical regulation Ukraine has signed agreements and co-operates with the following regional organisations⁵:

- Electric Power Council of the CIS countries - full member

Electric Power Council's main goal is to ensure reliable power supply for the CIS countries by taking advantage of a common technological base of electric power industry, and to organise stable parallel operation of the national electric power grids.

Documents developed within the Electric Power Council are advisory in nature and can be adopted in Ukraine in accordance with the general procedure for adoption of legislative acts in the field of technical regulation.

⁵ On ratification of the Protocol on Ukraine's accession to the Treaty on establishment of the Energy Community, the Law of Ukraine № 2787 of 15.12.2010

Overview of technical normalisation and standardization systems of the Partner Countries

II. Standardization

3. Regulatory framework (documents in the area of standardization)

3.1. Legislative base

a) Laws

- On standards, technical regulations and conformity assessment procedures, № 3164-IV of 01.12.2005 (amendments № 1107-V of 31.05.2007, № 255-VI of 10.04.2008, № 882-VI of 15.01.2009, № 2735-VI of 02.12.2010, № 4224-VI of 22.12.2011, № 5312-VI of 02.10.2012, № 5463-VI of 16.10.2012)
- On standardization № 2408-III dated 17.05.2001 (amendments № 3164-IV of 01.12.2005, № 5463-VI of 16.10.2012)

b) Decrees of the Cabinet of Ministers

- On standardization and certification, decree № 46-93 of 10.05.1993 (amendments № 1288-XIV of 14.12.99, № 2134-III of 07.12.2000, № 2779-III of 15.11.2001, № 540-IV of 20.02.2003, № 543-IV of 20.02.2003, № 1407-IV of 03.02.2004, № 2863-IV of 08.09.2005, № 1704-VI of 05.11.2009, № 3176-VI of 05.04.2011)
- On creation of the National automated information collection of standards, decree № 84 of 01.02.1995
- On approval of the coordination of works on standardization, that are carried out by the central bodies of executive power funded from the state budget, decree № 77 dated 04.02.2009
- On creation of the national database of normative documents, decree № 1395 dated 18.09.2002

Overview of technical normalisation and standartization systems of the Partner Countries

c) Documents of other public authorities

- On approval of the Standard Provision on Technical Committee for Standardization, order of Derzhspozhivstandard № 298 dated 20.05.2002, registered by the Ministry of Justice of Ukraine 11.07.2002 - № 578/6866
- On approval of the Provisions on the main database of normative documents, order of Derzhspozhivstandard № 48 dated 25.03.2003, registered by the Ministry of Justice of Ukraine 10.04.2003 - № 282/7603
- On approval of the Concept of incorporation of the standards of the European Union by the cover-sheet method, order of Ministry of Economic Development and Trade of Ukraine № 224 dated 16.11.2011.

3.2. Types of documents used in the standardization system

Technical normative legal acts in the field of standardization that are valid in the territory of Ukraine include:

- National standards
- Interstate standards
- Company standards
- Rules of good practice
- Technical specifications

Fundamental documents of standardization system:

- DSTU 1.0:2003 National standardization. Basic provisions.
- DSTU 1.1:2001 National standardization. Standardization and related types of national regulatory documents
- DSTU 1.2:2003 National standardization. Rules for development of national regulatory documents

Overview of technical normalisation and standardization systems of the Partner Countries

- DSTU 1.3:2004 National standardization. Rules for structure, presentation, design, approval, incorporation and designation of technical specifications
- DSTU 1.5:2003 National standardization. Rules for structure, presentation, design, and requirements to the contents of regulatory documents
- DSTU 1.6:2004 National standardization. Rules for registration of regulatory documents
- DSTU 1.7:2001 National standardization. Rules and methods for incorporation and use of international and regional standards
- DSTU 1.11:2004 National standardization. Rules for expert assessment of draft national regulations
- DSTU 1.2:2004 National standardization. Rules for management of regulatory documents
- DSTU 1.13:2003 National standardization. Rules for notification of trading partners of Ukraine
- DSTU ISO/IEC Guide 59:2000 Code of good practice for standardization
- DSTU 3250-95 National standardization. Rules for development of plan for national standardization

3.3. Fundamentals of the standardization system

Legal status of standardization documents

- The voluntary use of tools in the field of standardization is reaffirmed by the law
- Some national standards may be mandatory if the laws, government decrees, orders of the central bodies of executive power, that are registered by the Ministry of Justice, or technical regulations contain direct instructions about them (reference to specific standards or their lists)

Overview of technical normalisation and standardization systems of the Partner Countries

- Standards included in the list of documents that can be used as evidence in conformity assessment of products with the technical regulations, are voluntary for use.

Copyright on the documents in the field of standardization

- National standards are not subject to copyright.
- Ownership of the national standards, the rules of established practice, classifiers and directories, belongs to the State. On behalf of the State, the owner's rights to these documents are performed by the central executive body that implements the national policy on standardization⁶.
- Ownership of the standards, technical specifications and codes of established practice being adopted or approved by other agencies and organisations involved in standardization, is owned by the organisations and agencies, which funded their development or to which it was transmitted in accordance with the law.

Application of presumption of conformity of voluntary standards to the mandatory requirements of technical regulations

It is allowed to use the Presumption of Conformity principle ⁷ of voluntary standardization documents in carrying out procedures for conformity assessment with the mandatory technical regulations.

No additional requirements (for example, the presence of additional addendums indicating the relationship between the requirements of technical regulations and the

⁶ Ministry of Economic Development and Trade of Ukraine

⁷ Presumption of Conformity - the principle according to which it is believed that products, conforming to the requirements of the voluntary standards, meet the mandatory requirements of technical regulations, until reasonably proved otherwise

Overview of technical normalisation and standardization systems of the Partner Countries provisions of harmonized standards) are set forth to the content of standards that have a presumption of conformity (harmonized standards).

The list of national standards, which in case of their voluntary application, are proof of conformity of products with the technical regulations, is formed by the central body of the executive power responsible for the formation of national policy on standardization (Ministry of Economic Development) at the request of the relevant central bodies of executive power, and in the absence of such standards it organises the development of relevant standards at the request of those bodies.

The list of national standards, which, in case of their application, are proof of conformity of products with the technical regulations, is published in the official publication of the central body of the executive power responsible for the formation of national policy on standardization (Ministry of Economic Development).

3.4. Implementation of international, regional and foreign standards as national standards

1	ISO - International Organisation for Standardization	yes (full member)
2	IEC – International Electrotechnical Commission	yes (full member)
3	CEN - European Committee for Standardization	yes (affiliates)
4	CENELEC - European Committee for Electrotechnical Standardization	yes (affiliates)
5	EASC - Eurasian Interstate Council for standardization, Metrology and certification	yes (full member)

Methods for adoption of international and regional standards as national standards (except interstate standards GOST)

Incorporation of international and regional standards as national standards is regulated by the national standard DSTU 1.7:2001 “National standardization. Rules and methods

Overview of technical normalisation and standartization systems of the Partner Countries for incorporation and use of international and regional standards”, that corresponds to ISO/IEC Guide 21:1999 and the Order of the Ministry of Economic Development and Trade of Ukraine № 224 dated 16.11.2011- On approval of the Concept of implementation of the standards of the European Union by cover sheet method.

Methods of ISO/IEC Guide 21:1999	
1. Endorsement	permitted.
2. Cover sheet	permitted
3. Republication	
3.1. Reprinting	permitted.
3.2. Translation	permitted
3.3. Redrafting	permitted

Methods of incorporation of international, regional and foreign standards without their adoption as national standards:

- Reference method ⁸ - permitted only in case of product realisation outside the Ukrainian territory
- Registration method ⁹ - not permitted

The order of application of interstate standards GOST

In accordance with GOST 1.2-2009 the interstate standard is used as a national standard in the countries whose national authorities have adopted this standard (acceded to) in line with with the procedure established by these national bodies.

⁸ Application of international, regional and international standards, which are referenced in legal documents (including the contracts between businesses)

⁹ Application of international, regional and interstate standards, which are registered by the authorised body in the prescribed manner

Overview of technical normalisation and standardization systems of the Partner Countries

In Ukraine:

- The use of interstate standards is carried out by its republication into the national standard DSTU GOST by cover sheet method (reprinting with the addition of national introduction).
- The NSB (Ministry of Economic Development) sets the start date for the standard's validity in the territory of Ukraine, as a rule, with withdrawal of any national standard (standards) being in conflict with it (or duplicating it).
- The publication of information on the introduction of interstate standard for its use as a national standard, its publication and distribution in the territory of Ukraine is carried out in accordance with the procedure established for the national standards.

3.5. The order of development and adoption of standardization documents

National standards and provisional national standards are developed on the basis of work plans for standardization that are prepared and approved by the central body of the executive power responsible for the formation of national policy on standardization (Ministry of Economic Development);

National standards are developed by technical committees for standardization, and in their absence by organisations that have relevant scientific and technical expertise in this area;

The process of national standards development includes the stages as follows:

- Preparation of the first version of the draft standard
- Placement of notification on the beginning of the development of standards in the official publication of the central executive body that implements the national policy on standardization (Ministry of Economic Development)
- Collection and review of comments from all stakeholders;
- Preparation of the final version of the draft standard and its approval (through voting by members of the technical committee);

Overview of technical normalisation and standardization systems of the Partner Countries

- Adoption of a draft standard by the central executive authorities, preparation of the final version of the draft standard and its approval (through voting by members of the technical committee);
- Publication of the list of standards being approved and adopted during the month, in the official publication of the central body of executive power in the sphere, which implements the national policy on standardization (Ministry of Economic Development)

Procedure for development of company standards and technical specifications is determined by their developers.

4. Participants of the standardization activity

4.1. Main participants of standardization activities

- a) Ministry of Economic Development and Trade of Ukraine – Central body of the executive power, which provides for the formation and implementation of national policy on standardization– NSB
 - develops and implements within its powers the national policy in the field of standardization;
 - develops the programme for national standards and technical regulations development on the basis of proposals
 - approves national standards and introduces them into validity;
 - creates and publishes the list of national standards, which in case of their voluntary application are proof of conformity of products with technical regulations
 - sets out the procedure and makes a decision on the establishment and termination of activity of the technical committees for standardization, determines their powers, and the procedure for their establishment

Overview of technical normalisation and standardization systems of the Partner Countries

In addition to the functions of the NSB the Ministry of Economic Development performs the functions of authorised national authority for:

- metrology,
 - certification (conformity assessment)
 - formation of national policy in the sphere of market supervision and state control over compliance to the requirements established by technical regulations
- b) State bodies of executive power:
- participate in the development of standards within their area of competence
- c) Technical committees for standardization:

Technical committees for standardization are created by NSB (Ministry of Economic Development) on the basis of proposals from stakeholders, in order to carry out work on standardization in agreement with state agencies within their relevant area.

Main functions of the technical committees on standardization are as follows:

- prepare proposals to work plans for the development of national standards;
- organise and carry out the work on the development of national standards;

4.2. List of the existing technical committees for standardization

Abbreviations:

P – Participant

O – Observer

M – Mirror (the same subject-matter), indicated in the absence of official relations

S – Similar (partially overlapping with the same subject-matter), indicated in the absence of official relations

Overview of technical normalisation and standartization systems of the Partner Countries

Gas sector:

Existing National Technical Committees				
Analogous international and regional Technical Committees (TC)				
TK 8 Steel pipes and cylinders (Organisation holding the TC Secretariat - "Ya.Ye. Osada Scientific Research Tube Institute"(SE "SRTI"))				
ISO	IEC	CEN	CENELEC	EASC
TC 5 - O TC 67 - O TC 67/SC 5 - O		TC 23 – S TC 54 – S ECISS/TC 110 - O		ITC 007 - P*
TK 17 Household equipment operating on gas, liquid and solid types of fuel (Organisation holding the TC Secretariat - OAO Design, Engineering and Technology Institute "Gazoapparat" (JSC PKTI "Gazoapparat" (JSC DETI "Gazoapparat"))				
ISO	IEC	CEN	CENELEC	EASC
TC 109 - O TC 161 - O		TC 48 - S TC 49 - S TC 58 - S TC 62 - S TC 106 - S TC 109 - S TC 131 - S TC 180 - S		ITC 098 – P (holds TC secretariat)
TK 122 – Analysis of gases, liquids and solid substances (Organisation holding the TC Secretariat - Ukrainian State Research and Production Centre for Standardization, Metrology, Certification and Consumer Protection - SE "Ukrmetrteststandart ")				
ISO	IEC	CEN	CENELEC	EASC
TC 158 - P TC 193 - P			TC 216 - S	ITC 052 - P

· Organisation that holds the ITC Secretariat

Overview of technical normalisation and standartization systems of the Partner Countries

TK 133 - Natural gas (Organisation holding the TC Secretariat - Ukrainian Scientific Research Institute of Natural Gases (UkrNIlgaz) - a branch of the State Enterprise "Ukrgezvidobuvannya" NAK "Naftogaz of Ukraine" Ministry of Energy and Coal)				
ISO	IEC	CEN	CENELEC	EASC
				ITC 052 - P
138 - OIL & GAS standardization (Organisation holding the TC Secretariat - State Scientific and Technical Company (SSTC) "Drilling Equipment" Ministry of Energy and Coal)				
ISO	IEC	CEN	CENELEC	EASC
TK 146 - Materials, equipment, technologies and facilities for the oil and gas industry (Organisation holding the TC Secretariat - Ivano-Frankivsk National Technical University of Oil and Gas - IFNTUOG)				
ISO	IEC	CEN	CENELEC	EASC
TC 67 - P		TC12 - S		ITC 523 - P
TK 8 Steel pipes and cylinders (Organisation holding the TC Secretariat - "Ya.Ye. Osada Scientific Research Tube Institute"(SE "SRTI"))				
TC 5 - O TC 67 - O TC 67/SC 5 - O		TC 23 – S TC 54 – S ECISS/TC 110 - O		ITC 007 - P*

· Organisation that holds the ITC Secretariat

Overview of technical normalisation and standartization systems of the Partner Countries

Electrical sector:

Existed National Technical Committees				
Analogous international and regional Technical Committees (TC)				
TK 13 Standardization of electrical household machinery and devices (Organisation holding the TC Secretariat - Ukrainian State Research and Production Centre for Standardization, Metrology, Certification and Consumer Protection (SE "Ukrmetrteststandart"))				
ISO	IEC	CEN	CENELEC	EASC
TC 86 - O TC 86/SC 6 - O	TC 23 - O TC 59 - O SC A,D,L - P TC 61 - P TC 62 - O TC 72 - O		BTTF 128-1 TC 23E - S TC 23BX - S TC 59X - S TC 61 - M TC 72 - S	ITC 019 - P (holds TC secretariat)
TK 22 Electromagnetic compatibility and durability of electronic and electrical devices (Organisation holding the TC Secretariat - Scientific-Research and Development and Design Institute "Molnya" STU "KhPI")				
ISO	IEC	CEN	CENELEC	EASC
	TC 77 - O TC 81 - O CISPR - O		TC 81X - S TC 106X - S TC 210 - M SR CISPR - S	
TK 27 Production of heavy electric machine building (Organisation holding the TC Secretariat – State Enterprise - Factory "Electrotyazhmash")				
ISO	IEC	CEN	CENELEC	EASC
	TC 22 - O		TC 2 - S	
TK 30 – Transformers and high-voltage equipment (Organisation holding the TC Secretariat - Ukrainian Scientific Research Institute of transformer equipment – VIT Ministry of Industrial Policy)				
ISO	IEC	CEN	CENELEC	EASC

Overview of technical normalisation and standartization systems of the Partner Countries

	TC 14 - P TC 15 - P TC 28 - P TC 37 - P TC 38 - P TC 96 - P TC 112 - O		TC 13 - S TC 14 - M TC 17 AC - S TC 38X - S TC 40 XA - S TC 55 - S TC 106X - S	ITC 36 – P (holds TC secretariat)
TK 31 – Power converters (Organisation holding the TC Secretariat - Private enterprise "Electrotechnik - Standart")				
ISO	IEC	CEN	CENELEC	EASC
	TC 9 - O TC 22 - O TC 32 - O TC 33 - O TC 47 - O TC 48 - O TC 95 - O		TC 9X - S TC 14 - S TC 17 AC - S TC 17 B - S TC 17 D - S TC 22 X - S TC 94 - S TC 99 X - S	
TK 42 Explosive and electrical equipment for mines (Organisation holding the TC Secretariat - Ukrainian Scientific-Research, Design and Technology Institute of explosive and electrical equipment for mines with research - experimental production (UkrNIIVE) Ministry of Industrial Policy of Ukraine)				
ISO	IEC	CEN	CENELEC	EASC
	TC 2 - O TC 31 - P SC 31G - P SC 31J - P SC 31M - P TC 70 - P		TC 31 - 3	ITC 042 - P (holds TC secretariat) TK 333 - P
TK 48 – Energy Saving (Organisation holding the TC Secretariat – Institute of General Energy of NAS of Ukraine)				
ISO	IEC	CEN	CENELEC	EASC

Overview of technical normalisation and standartization systems of the Partner Countries

ISO/IEC JRC 2 TC 203 - P		CEN/CLC/JTF PE - S CEN/CLC/JWG 1 - S CEN/CLC/JWG 2 - S CEN/CLC/JWG 3 - S CEN/CLC/TC 2 - S		ITC 111 - P (holds TC secretariat)
		TC 8X - S		
TK 57 Air-conditioning and ventilation systems (Organisation holding the TC Secretariat - Private enterprise "NV")				
ISO	IEC	CEN	CENELEC	EASC
TC 86/SC 6 - P TC 117 - P				ITC 208 - P (holds TC secretariat) ITC 506 - S
TK 73 - Low voltage switch gear (Organisation holding the TC Secretariat – 3AO “Low-voltage electric apparatus and systems” Ministry of Industrial Policy)				
ISO	IEC	CEN	CENELEC	EASC
			TC 17B - S TC 17D - S TC 23E - S TC 37A - S TC 44 - S TC 64 - S	ITC 23E - S ITC 37A - S
TK 74 - Insulators (Organisation holding the TC Secretariat - SE “SRI of high voltage”)				
ISO	IEC	CEN	CENELEC	EASC
	TC 36 - O TC 36 B - P		TC 44X - S TC 11 - S TC 36A - M	ITC 038 - S
TK 90 Measure tools for electrical and magnetic quantities (Organisation holding the TC Secretariat – Ukrainian State Research and Production Centre for Standardization, Metrology, Certification and Consumer Protection (SE "Ukrmetrteststandart"))				

Overview of technical normalisation and standartization systems of the Partner Countries

ISO	IEC	CEN	CENELEC	EASC
	TC 62 - O TC 85 - P		TC 38X - S TC 62 - S	
TK 104 Lifts, escalators and passenger conveyors (Organisation holding the TC Secretariat – Closed Joint Stock Company OTIS (JSC "Otis"))				
ISO	IEC	CEN	CENELEC	EASC
TC 178 - P				
TK 123 Audio-visual systems and services (Organisation holding the TC Secretariat – State Enterprise "Ukrainian Scientific Research Institute of Radio and Television" (SE "USRIRT"))				
ISO	IEC	CEN	CENELEC	EASC
			TC 209 - S	
TK 131 - Electrical insulation and cable equipment (Organisation holding the TC Secretariat – National Technical University "Kharkiv Polytechnic Institute" (NTU "KhPI") of the Ministry of Education and Science of Ukraine)				
ISO	IEC	CEN	CENELEC	EASC
	TC 15 - O TC 28 - O TC 33 - O TC 42 - O TC 46 - O TC 55 - O TC 109 - O TC 112 - O		TC 14 - S TC 17 - S TC 20 - M TC 46X - S TC 55 - S TC 86 - S TC 116 - S TC 213 - S	ITC 046 - S
TK 137 – Lamps and related equipment (Organisation holding the TC Secretariat – ГП "Poltava Regional Scientific and Technical Centre for Standardization, Metrology and Certification" - SE "Poltavastandartmetrologiya")				
ISO	IEC	CEN	CENELEC	EASC
	TC 34 - O		TC 34 Z - M	

Overview of technical normalisation and standartization systems of the Partner Countries

TK 162 – Management of energy systems and the associated processes of information exchange (Organisation holding the TC Secretariat – Institute of Electrodynamics of NAS of Ukraine)				
ISO	IEC	CEN	CENELEC	EASC
	TC 57 - P	CEN/CLC/JTF PE - S CEN/CLC/JWG 1 - S CEN/CLC/JWG 2 - S CEN/CLC/JWG 3 - S CEN/CLC/TC 2 - S		
			TC 8X - S	

4.3. Membership in international and regional organisations for standardization

	Organisation for standardization	yes (status) / no
1	ISO - International Organisation for Standardization	yes (full member)
2	IEC – International Electrotechnical Commission	yes (full member)
3	CEN - European Committee for Standardization	yes (affiliates)
4	CENELEC - European Committee for Electrotechnical Standardization	yes (affiliates)
5	EASC - Eurasian Interstate Council for Standardization, Metrology and Certification	yes (full member)

4.4. Participation in the activities of international and regional technical committees for standardization

Abbreviations:

P – Participant

Overview of technical normalisation and standartization systems of the Partner Countries

O – Observer

M – Mirror (the same subject-matter), indicated in the absence of official relations

S – Similar (partially overlapping with the same subject-matter), indicated in the absence of official relations

Gas sector:

	ISO Technical Committee		Representation of Ukraine	Status
1	TC 5	Ferrous metal pipes and metallic fittings	TC 8	O
2	TC 11	Boilers and pressure vessels	TC 83	P
3	TC 30	Measurement of fluid flow in closed conduits	TC 63, TC 65	O
4	TC 67	Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries	TC 8, TC 146	P
5	TC 67/SC 2	Pipeline transportation systems	TC 146	P
6	TC 67/SC 5	Casing, tubing and drill pipe	TC 8	O
7	TC 109	Oil and gas burners	TC 17	O
8	TC 158	Analysis of gases	TC 122	P
9	TC 161	Control and protective devices for gas and/or oil burners and appliances	TC 17	O
10	TC 185	Safety devices for protection against excessive pressure	TC 83	O
11	TC 193	Natural gas	TC 122	P

Overview of technical normalisation and standartization systems of the Partner Countries

12	TC 193/SC 1	Analysis of natural gas	TC 122	P
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Ukraine is currently engaged in the work of only one technical committee of CEN:

	CEN Technical Committee		Representation of Ukraine	Status
1	ECISS/TC 110	Steel tubes, and iron and steel fittings	TC 8	O

but in line with its status as an affiliate member intends, in the near future, to participate in the following technical committees of CEN and CENELEC:

	CEN & CENELEC Technical Committee		Representation of Ukraine	Status
1	CEN/TC 12	Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries	TC 146	S
2	CEN/TC 49	Gas cooking appliances	TC 17	S
3	CEN/TC 54	Unfired pressure vessels	TC 8	S
4	CEN/TC 58	Safety and control devices for burners and appliances burning gaseous or liquid fuels	TC 17	S
5	CEN/TC 62	Independent gas-fired space heaters	TC 17	S
6	CEN/TC 106	Large kitchen appliances using gaseous fuels	TC 17	S
7	CEN/TC 109	Central heating boilers using gaseous fuels	TC 17	S

Overview of technical normalisation and standartization systems of the Partner Countries

8	CEN/TC 114	Safety of machinery	TC 135, TC 91	S
9	CEN/TC 131	Gas burners using fans	TC 17	S
10	CEN/TC 180	Decentralised gas heating	TC 17	S
11	CLC/TC 216	Gas detectors	TC 122	S

	EASC Technical Committee		Representation of Ukraine	Status
1	ITC 007	Pipe and steel tanks	TC 8	P
2	ITC 052	Natural gas	TC 122	P
3	ITC 098	Household equipment operating on gas and liquid fuels	TC 17	P
4	ITC 155	Connection of pipelines for engineering applications	TC 108	P
5	ITC 260	Chemical, petrochemical and gas processing equipment	TC 146	P
6	ITC 523	Technique and technology of oil and gas extraction and processing	TC 138	P

Electrical sector:

	ISO & ISO/IEC Technical Committee		Representation of Ukraine	Status
1	TC 22/SC 3	Electrical and electronic equipment	TC 80	O
2	TC 22/SC 8	Lighting and light-signalling	TC 80	O
3	TC 117	Fans	TC 57	P
4	TC 178	Lifts, escalators and moving walks	TC 104	P

Overview of technical normalisation and standartization systems of the Partner Countries

5	TC 203	Technical energy systems	TC 48	P
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	IEC Technical Committee		Representation of Ukraine	Status
1	TC 9	Electrical equipment and systems for railways	TC 31	O
2	TC 13	Electrical energy measurement, tariff- and load control	TC 90	O
3	TC 14	Power transformers	TC 30	P
4	TC 15	Solid electrical insulating	TC 27, TC 30, TC 37, TC 131	P
5	TC 20	Electric cables	TK 131	O
6	TC 22	Power electronic systems and equipment	TC 27, TC 31	O
7	TC 23	Electrical accessories	TC 13	O
9	TC 28	Insulation co-ordination	TC 27, TC 30, TC 131	P
10	TC 31	Equipment for explosive atmospheres	TC 42	P
11	TC 32	Fuses	TC 31	O
12	TC 33	Power capacitors and their applications	TC 31, TC 131	O
13	TC 34	Lamps and related equipment	TC 137	O
14	TC 36	Insulators	TC 74	O
15	TC 37	Surge arresters	TC 30	P
16	TC 38	Instrument transformers	TC 30	P

Overview of technical normalisation and standartization systems of the Partner Countries

17	TC 42	High-voltage and high-current test techniques	TC 131	P
18	TC 44	Safety of machinery - Electrotechnical aspects	TC 91, TC 135	O
19	TC 46	Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories	TC 131	O
20	TC 47	Semiconductor devices	TC 31	O
21	TC 48	Electromechanical components and mechanical structures for electronic equipment	TC 31	O
22	TC 55	Winding wires	TC 27, TC 131	O
23	TC 57	Power systems management and associated information exchange	TC 162	P
24	TC 59	Performance of household and similar electrical appliances	TC 13	O
25	SC 59A	Electric dishwashers	TC 13	P
26	SC 59D	Home laundry appliances	TC 13	P
27	SC 59L	Small household appliances	TC 13	P
28	TC 61	Safety of household and similar electrical appliances	TC 13	P
29	TC 62	Electrical equipment in medical practice	TC 13, 90	O
30	TC 70	Degrees of protection provided by enclosures	TC 42	P
31	TC 72	Automatic electrical controls	TC 13	O

Overview of technical normalisation and standartization systems of the Partner Countries

32	TC 77	Electromagnetic compatibility	TC 22, TC 155	O
33	TC 78	Live working	TC 135	O
34	TC 79	Alarm and electronic security systems	TC 165, TC 25, TC 143	P O
35	TC 81	Lightning protection	TC 22	O
36	TC 85	Measuring equipment for electrical and electromagnetic quantities	TC 90	P
37	TC 95	Measuring relays and protection equipment	TC 31	O
38	TC 96	Transformers, reactors, power supply units, and combinations thereof	TC 30	P
39	TC 109	Insulation co-ordination for low-voltage equipment	TC 131	O
40	TC 112	Evaluation and qualification of electrical insulating materials and systems	TC 30, TC 131	O
41	TC 116	Safety of motor-operated electric tools	TC 75	O

Currently, Ukraine is not involved in the work of the technical committees of CEN and CENELEC, but in line with its status as an affiliate member, intends, in the near future, to participate in the following technical committees:

	CEN/CLC Technical Committee		Representation of Ukraine	Status
1	JWG 1	Energy audits	TC 48, TC 162	S
2	JWG 2	Guarantees of origin and Energy certificates	TC 48, TC 162	S

Overview of technical normalisation and standartization systems of the Partner Countries

3	JWG 3	Energy Management and related services - General requirements and qualification procedures	TC 48, TC 162	S
4	JWG 4	Energy efficiency and saving calculation	TC 48, TC 162	S
5	TC 2	Power engineering	TC 48, TC 162	S

	CLC Technical Committee		Representation of Ukraine	Status
1	TC 2	Rotating machinery	TC 27, TC 42	S
2	TC 8X	System aspects of electrical energy supply	TC 48, TC 162	S
3	TC 9X	Electrical and electronic applications for railways	TC 31, TC 74, TC 83	S
4	TC 11	Overhead electrical lines exceeding 1 kV a.c. (1,5 kV d.c.)	TC 74	S
5	TC 13	Electrical energy measurement, tariff- and load control	TC 30, TC 90	S
6	TC 14	Power transformers	TC 30, TC 31	S
7	TC 17AC	High-voltage switchgear and control gear	TC 30	S
8	TC 17B	Low-voltage switchgear and control gear	TC 31, TC 73	S
9	TC 17D	Low-voltage switchgear and control gear assemblies	TK 31, TK 73	S
10	TC 20	Electric cables	TC 131	M
11	TC 22X	Power electronics	TC 31	S

Overview of technical normalisation and standartization systems of the Partner Countries

12	TC 23BX	Switches, boxes and enclosures for household and similar purposes, plugs and socket outlets for d.c. and for the charging of electrical vehicles including their connectors	TC 13	S
13	TC 23E	Circuit breakers and similar devices for household and similar applications	TC 13, TC 73	S
14	TC 26A	Electric arc welding equipment	TC 44	M
15	TC 26B	Electric resistance welding	TC 44	M
16	TC 31	Electrical apparatus for potentially explosive atmospheres	TC 42	M
17	TC 34Z	Luminaires and associated equipment	TC 137	M
18	TC 36A	Insulated bushings	TC 74	M
19	TC 37A	Low voltage surge protective devices	TC 73	S
20	TC 38	Instrument transformers	TC 30, TC 90, TC 162	S
21	TC 40XA	Capacitors and EMI suppression components	TC 30	S
22	TC 44X	Safety of machinery: Electrotechnical aspects	TC 75	S
23	TC 46X	Communication cables	TC 131	S
24	TC 55	Winding wires	TC 30, TC 131	S
25	TC 59X	Performance of household and similar electrical appliances	TC 13	S

Overview of technical normalisation and standartization systems of the Partner Countries

26	TC 61	Safety of household and similar electrical appliances	TC 13	M
27	TC 62	Electrical equipment in medical practice	TC 90	S
28	TC 72	Automatic controls for household use	TC 13	S
29	TC 78	Equipment and tools for live working	TC 75	S
30	TC 79	Alarm systems	TC 25, TC 143, TC 165	S
31	TC 81X	Lightning protection	TC 22	S
32	TC 88	Wind turbines	TC 48, TC 162	S
33	TC 94	Relays	TC 31	S
34	TC 99X	Power installations exceeding 1 kV a.c. (1,5 kV d.c.)	TC 31	S
35	TC 106X	Electromagnetic fields in the human environment	TC 22, TC 30, TC 155	S
36	TC 116	Safety of motor-operated electric tools	TC 75	S
37	TC 205	Home and Building Electronic Systems (HBES)	TC 162	S
38	TC 209	Cable networks for television signals, sound signals and interactive services	TC 123	S
39	TC 210	Electromagnetic Compatibility (EMC)	TC 22, TC 83, TC 155	S
40	TC 213	Cable management systems	TC 131	S
41	BTF 62-3	Operation of electrical installations		S

Overview of technical normalisation and standartization systems of the Partner Countries

42	BTTF 128-2	Erection and operation of electrical test equipment	TC 13	S
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	EASC Technical Committee		Representation of Ukraine	Status
1	ITC 019	Electrical machinery and apparatus		P
2	ITC 036	Power transformers	TC 30	P
3	ITC 042	Explosion protected and mining equipment		P
4	ITC 048	Electrical machinery and apparatus		P
5	ITC 109	Power transformers		P
6	ITC 111	Explosion protected and mining equipment	TC 48	P
7	ITC 208	Air-conditioning and ventilation		P
8	ITC 232	Apparatus for measuring electrical energy and load control	TC 63	P
9	ITC 233	Measuring equipment for electrical and electromagnetic quantities	TC 63	P
10	ITC 234	Alarm and anti-criminal protection systems		P
11	ITC 244	Stationary power equipment	TC 74	P
12	ITC 333	Rotating electrical machines		P
13	ITC 506	Fans, centrifugal and axial-based contactless AC and DC motors		P

Overview of technical normalisation and standartization systems of the Partner Countries