




Forum for European Electrical Domestic Safety

A background image showing a close-up of an electrician's hands working on an open electrical panel. The panel contains various components like switches, outlets, and a complex network of white and grey wires. The electrician is using a screwdriver to adjust a component. The image is overlaid with a semi-transparent blue filter.

**MAPPING
DOMESTIC ELECTRICAL
INSPECTIONS REGIMES
IN THE EU:
A SITUATION WHICH VARIES STRONGLY
AMONG MEMBER STATES**

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ABOUT FEEDS

The Forum for European Electrical Domestic Safety (FEEDS) is a think-tank and a do-tank that brings together organizations aiming to improve electrical safety in dwellings.

The Forum aims to contribute to a safe, just and ambitious Energy Transition mainly focused on electrification by:



Providing harmonized data on domestic fires from electrical source at European level and contributing to improve data collection in each country,



Promoting proven solutions at European level to reduce electrical fires from electrical source in dwellings,



Putting electrical safety as a pre-requisite to the deep renovation and deployment of decentralized production (e.g. PV), energy storage and increased electrical demand of 132 million dwellings across Europe with obsolete electrical installations,



Drawing attention at all policy levels on the close connection between energy poverty and electrical safety for vulnerable communities,



Participating in the achievement of the Green Deal targets.

The results of the work of the FEEDS Forum are available to all stakeholders involved in household electrical safety in Europe. Stakeholders are free to make use of it to support their case and facilitate action in the different Member States of the European Union.

FEEDS MEMBERS



European organizations

-  European Committee of Electrical Installation Equipment Manufacturers (CECAPI)
-  Europacable
Try life without us
-  European Association of Electrical Contractors (EuropeOn)
ELECTRICAL CONTRACTORS ASSOCIATION
-  European Copper Institute (ECI)
Copper Alliance
-  European Fire Safety Alliance (EFSA)
-  Federation of the European Union Fire Officer Associations
-  International Federation for the Safety of Electricity Users
-  Insurance Europe – Prevention Forum



National organizations

-  Confédération Nationale du Logement (CNL – France)
-  Electrical Safety First - The UK's Electrical Safety Experts (ESF – United Kingdom)
-  Groupe de Réflexion sur la Sécurité Electrique dans le Logement (GRESEL – France)
-  Dutch Burns Foundation (NBS – Netherlands)

DOMESTIC ELECTRICAL INSPECTIONS REGIMES IN THE EU: A SITUATION WHICH VARIES STRONGLY AMONG MEMBER STATES

FEEDS analysed the general framework regarding the installation and renovation of electrical installations in dwellings in various countries. As conclusion, EU deployment of electrical inspection regimes is limited and mainly voluntary.



VARIOUS TYPES OF EXISTING REGULATIONS THROUGHOUT THE EU

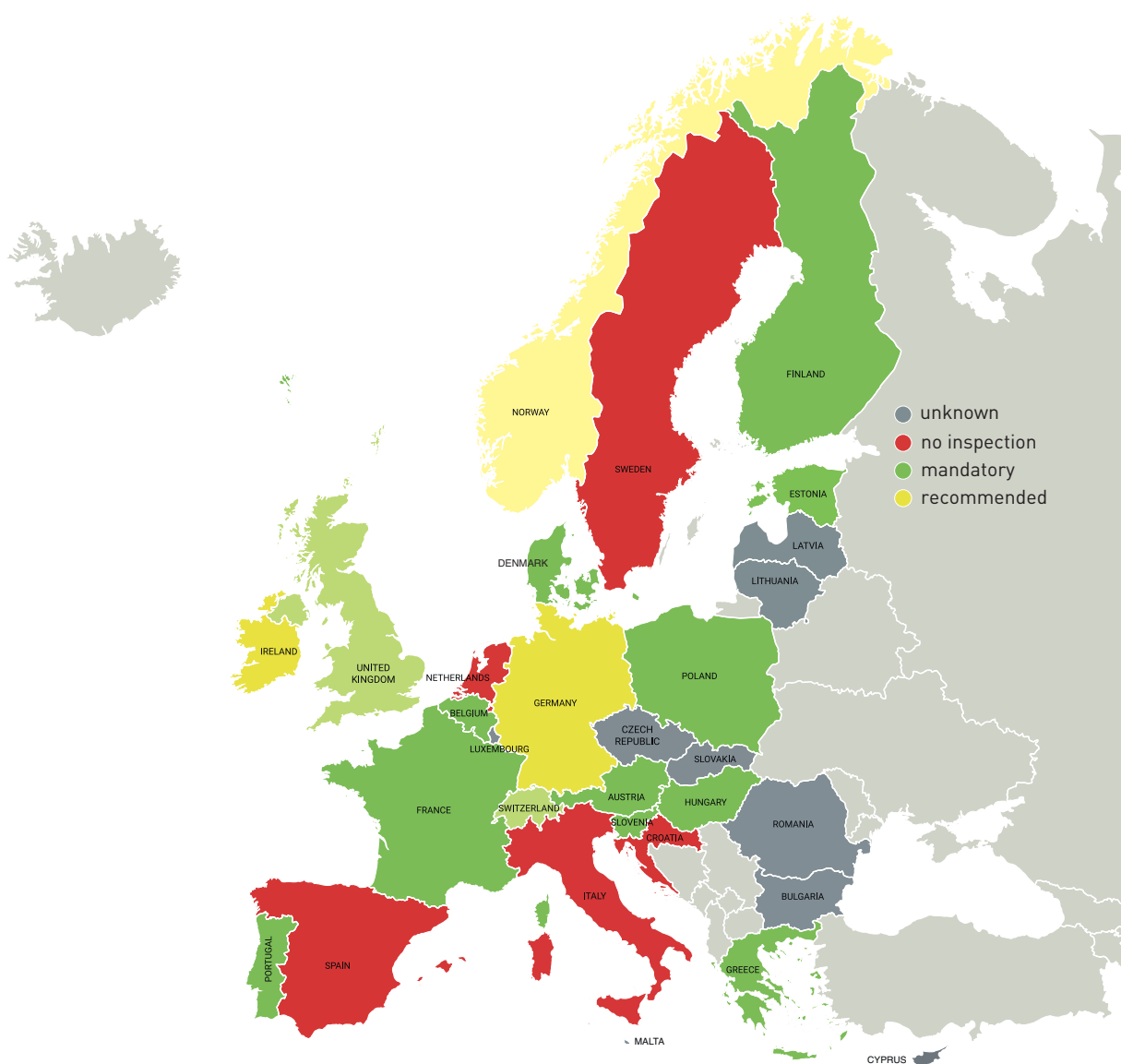
- ✓ INITIAL VERIFICATION OF THE ELECTRICAL INSTALLATION
- ✓ INSPECTION OF EXISTING ELECTRICAL INSTALLATIONS

INITIAL VERIFICATION OF THE ELECTRICAL INSTALLATION

In the majority of the EU countries, an initial third-party verification of the electrical installation in new residential buildings is mandatory. Who coordinates and who executes those inspections depends upon the country and the type of building. Most of the inspections in the EU are executed by private inspection companies or third party authorized electricians.

In some countries, third-party inspection of the installation is not mandatory, but the work on the installation needs to be executed by certified electrical contractors.

Verification that the inspection (or certified installation) has been executed is in the hands of distribution network operators or public authorities. In most EU countries, distribution network operators request an inspection report before connecting the new electricity meters to the grid.

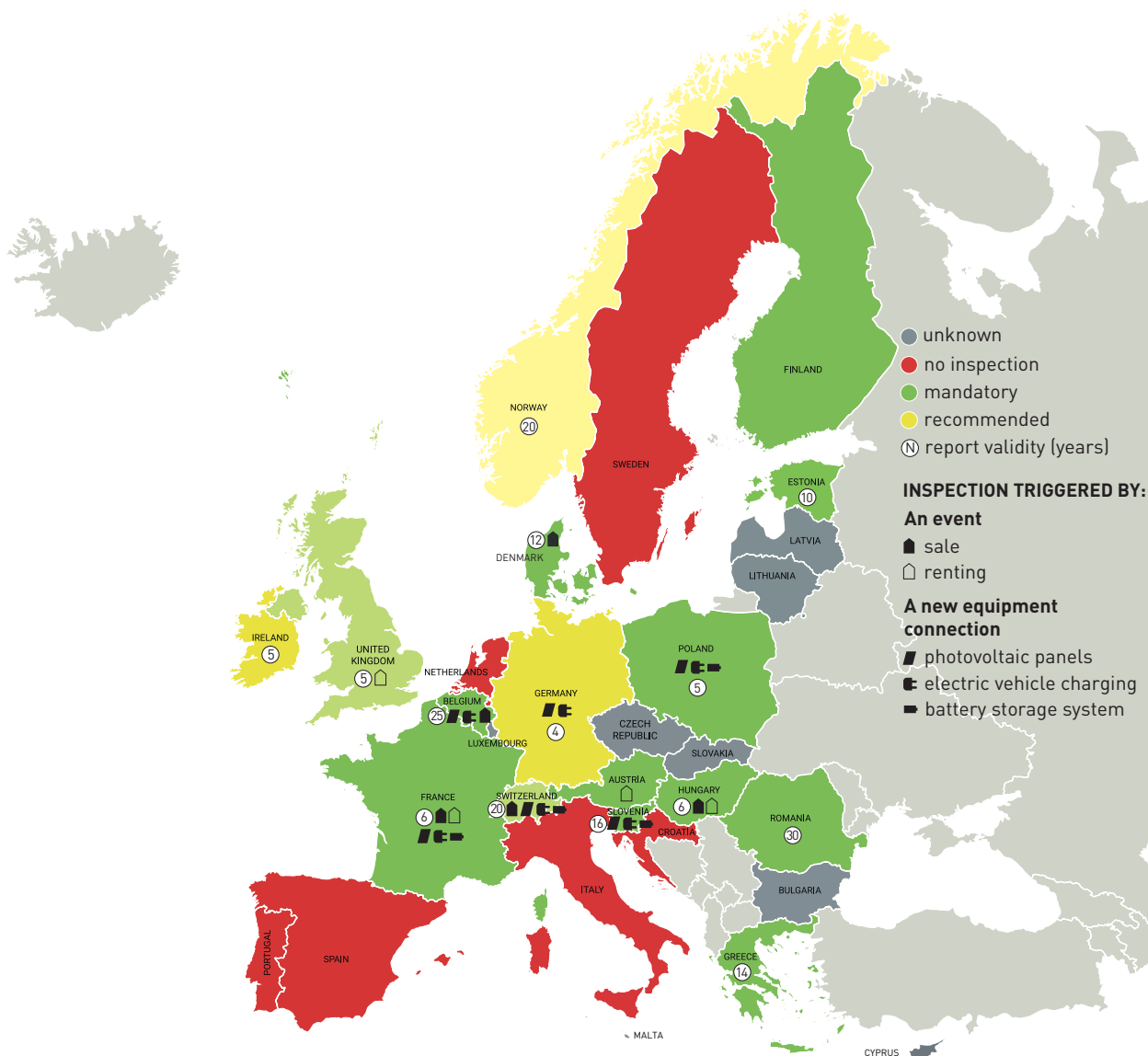


Map 1 – Initial inspection of new domestic installation

INSPECTION OF EXISTING ELECTRICAL INSTALLATIONS

CENELEC (HD 60364-6) recommends a periodic inspection of the electrical installation every 10 years. When occupancy of a dwelling has changed, a verification of the electrical installation is also strongly recommended. But, the majority of European countries do not have regulation for verifying domestic electrical installations after the initial inspection. Among countries that do require periodic inspections, the protocols vary greatly. The following strategies can be roughly distinguished:

- ✓ PERIODIC INSPECTIONS AT FIXED INTERVALS
- ✓ INSPECTIONS WITH EACH CHANGE OF OCCUPANT
- ✓ INSPECTION AFTER MAJOR WORKS (Power increase, retrofit, new equipment...)



Map 2 — Domestic electrical inspection regimes of existing installation



IN DEPTH ANALYSIS PER COUNTRY

AUSTRIA



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	mandatory
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Reference: <https://www.elektrotechniker.at>

BELGIUM



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		25	
Conditions	Event related to housing	Sale	mandatory
		Renting	no
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	no

Reference: <https://economie.fgov.be/fr/publications/reglement-general-sur-les>

Source: AiE Technical Guideline for Electrical Contracting Companies in the EU 2013

BULGARIA



Initial inspections (Map 1)		unknown	
Periodic inspections (Map 2)		unknown	
Validity of the inspection report (Year)		unknown	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

CROATIA



Initial inspections (Map 1)			no
Periodic inspections (Map 2)			no
Validity of the inspection report (Year)			no
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

Source: <https://engotion.eu/en/inspection-and-testing-electrical-installations>

CYPRUS



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			unknown
Validity of the inspection report (Year)			unknown
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

CZECH REPUBLIC



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			unknown
Validity of the inspection report (Year)			unknown
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

DENMARK



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		12	
Conditions	Event related to housing	Sale	mandatory
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Reference: Stærkstrømsbekendtgørelsen afsnit 6 Elektriske installationer
 Danish Heavy Current Legislation, Section 6, Electrical Installations
 HD IEC 364
 CEN/CENELEC HD 384

Source: <https://www.tekniq.dk/>

ESTONIA



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		10*	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

* 15 years if built after 2000

Source: <https://www.energia.ee/en/era/elekter/elektripaigaldise-audit>

FINLAND



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://www.stul.fi/>

FRANCE



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		6	
Conditions	Event related to housing	Sale	mandatory
		Renting	mandatory
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	mandatory

Source: <https://www.promotelec.com/>
<http://ffie.fr>
<http://www.serce.fr>
<https://www.consuel.com/>

GERMANY



Initial inspections (Map 1)		recommended	
Periodic inspections (Map 2)		recommended	
Validity of the inspection report (Year)		4	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	recommended
		Electric vehicle charging point	recommended
		Storage battery system	no

Source: <https://www.elektrohandwerk.de/privat/themen/e-check.html>

GREECE



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		14	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://www.poseh.gr>
<https://energy4you.gr/hedno-certifications>

HUNGARY



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		6	
Conditions	Event related to housing	Sale	mandatory
		Renting	mandatory
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

Source: <http://emosz.hu>

IRELAND



Initial inspections (Map 1)			recommended
Periodic inspections (Map 2)			recommended
Validity of the inspection report (Year)			5
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

Source:

https://www.hsa.ie/eng/Publications_and_Forms/Publications/Information_Sheets/Guidance-Note_on_Periodic_Inspection_and_Testing_of_Electrical_Installations.html

ITALY



Initial inspections (Map 1)		no	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://www.prosiel.it>
<http://www.assistal.it>

LATVIA



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			unknown
Validity of the inspection report (Year)			unknown
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

LITHUANIA



Initial inspections (Map 1)		unknown	
Periodic inspections (Map 2)		unknown	
Validity of the inspection report (Year)		unknown	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

LUXEMBOURG



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			unknown
Validity of the inspection report (Year)			unknown
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

Source: <https://www.creos-net.lu/index.php?id=619>

MALTA



Initial inspections (Map 1)		unknown	
Periodic inspections (Map 2)		unknown	
Validity of the inspection report (Year)		unknown	
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

NETHERLANDS



Initial inspections (Map 1)		no	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://www.technieknederland.nl/home>

POLAND



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		5	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	mandatory
		Electric vehicle charging point	mandatory
		Storage battery system	mandatory

Reference: Building Law art62,1 point2

PORTUGAL



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://selectra.pt/energia/info/certiel>
<http://www.aecops.pt/>

ROMANIA



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			mandatory
Validity of the inspection report (Year)			30
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

Sources: <https://www.mesterulcasei.com.ro>
<https://anre.ro>

SLOVAKIA



Initial inspections (Map 1)			unknown
Periodic inspections (Map 2)			unknown
Validity of the inspection report (Year)			unknown
Conditions	Event related to housing	Sale	unknown
		Renting	unknown
	New equipment installation	Photovoltaic panels	unknown
		Electric vehicle charging point	unknown
		Storage battery system	unknown

SLOVENIA



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		16	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	mandatory*
		Electric vehicle charging point	mandatory*
		Storage battery system	mandatory**

* Each 8 years

** Each 4 years

Source: <https://cms.law/en/int/expert-guides/cms-expert-guide-to-electricity/slovenia>
<https://www.ezs-zveza.si/>
<https://www.gov.si/en/topics/low-voltage-electrical-equipment/>

SPAIN



Initial inspections (Map 1)		no	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://fenie.es/presentacion>

SWEDEN



Initial inspections (Map 1)		no	
Periodic inspections (Map 2)		no	
Validity of the inspection report (Year)		no	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no

Source: <https://www.in.se/#/>

NON-EU COUNTRIES

NORWAY



Initial inspections (Map 1)		recommended	
Periodic inspections (Map 2)		recommended	
Validity of the inspection report (Year)		20-25	
Conditions	Event related to housing	Sale	no
		Renting	no
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no
		PV	no

Source: <https://www.nelfo.no>

NON-EU COUNTRIES

SWITZERLAND



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		20	
Conditions	Event related to housing	Sale	yes*
		Renting	no
	New equipment installation	Photovoltaic panels	yes
		Electric vehicle charging point	yes
		Storage battery system	yes
		PV	yes

* If the last certificate is older than 5 years

Source: <https://www.eit.swiss>

NON-EU COUNTRIES

UK



Initial inspections (Map 1)		mandatory	
Periodic inspections (Map 2)		mandatory	
Validity of the inspection report (Year)		5*	
Conditions	Event related to housing	Sale	no
		Renting	yes*
	New equipment installation	Photovoltaic panels	no
		Electric vehicle charging point	no
		Storage battery system	no
	PV	no	

* Private sector

Source: <https://www.eca.co.uk>