



IECEx 2026 Industry Symposium 16 Sept 2026

Build on Safety, Advance Green Development

Introduction of IECEx and IECQ

Mr Chris AGIUS
Executive Secretary
IECEx + IECQ

Fire / Explosion Protection Fundamentals

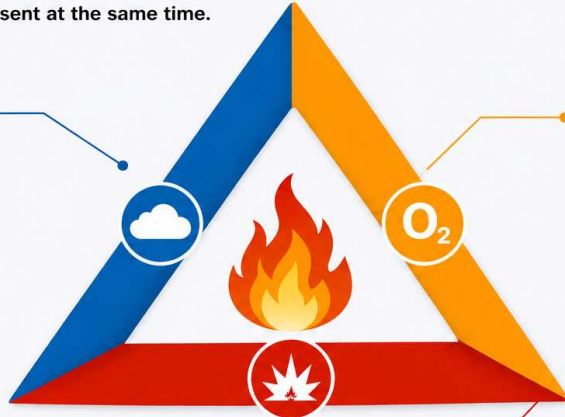
THE FIRE TRIANGLE

A fire or explosion requires the three elements of the fire triangle to be present at the same time.

FUEL

Any combustible material that can burn.

Examples:
gases, vapors,
liquids, dusts,
solids.



OXYGEN

Usually from the air (21% oxygen) that supports combustion.

IGNITION SOURCE

The energy required to start a fire.
Examples: sparks, hot surfaces, flames,
electrostatic discharge, mechanical impact.



REMOVE OR CONTROL ANY ONE OF THESE ELEMENTS
and a fire or explosion cannot occur.



Remove Fuel



Remove Oxygen



Remove Ignition Source

UNDERSTAND YOUR SITUATION – If you do not - then get help – do not ignore

Fuel = Flammable material or Substance

References:

ISO/IEC 80079-20-1 – Material Characteristics, gases and vapour

ISO/IEC 80079-20-2 - Material Characteristics, Combustible Dusts

IEC 60079-10 Series – Area Classification





SAFE USE OF EQUIPMENT

IN THE PRESENCE OF FLAMMABLE OR COMBUSTIBLE MATERIALS



IECEx CERTIFICATION COVERS THESE 4 KEY ELEMENTS

IECEx Certification provides assurance that equipment is suitable for use in explosive atmospheres when it is: designed, tested, certified and marked in accordance with applicable IEC and ISO Standards.



SAFETY FIRST. EVERY TIME.



Always follow your organization's procedures and applicable IEC and ISO Standards.

IEC's System for Certification to Standards relating to Equipment for use in Explosive atmospheres, IECEx

IECEX Value Proposition – of the IEC CA Systems

Provides Assurance to Industry, Commerce, Regulators and Consumers that operations and activities involving flammable and combustible materials can continue safely and reliably, by providing an Internationally Standardized Approach to Testing and Certification, regardless which IECEx Approved Certification Body is used.

Industries that use flammable/combustible materials include:

- Production, Storage, Dispensing and use of flammable liquids and Gases, such as **Hydrogen, including GH2**
- Transport, eg cars / planes / ships / trucks (Passenger + Freight)
- Fueling stations and storage facilities
- Oil and gas exploration and processing
- Coal mining
- Food manufacture and processing
- Grain handling/storage/transportation
- Pharmaceutical manufacturing
- Textiles, fabrics and clothing
- Paint and surface coatings
- Medical applications, eg hospitals
- Furniture manufacturing
- Sewerage treatment plants
- Underground car parks
- Others

Started **1996**

Currently **102**
IECEX Approved
Certification
Bodies offer
IECEX
Certification
>170,000
Certificates +
Reports issued



IEC System for Certification to Standards relating to Equipment for Use in Explosive Atmospheres (IECEx)

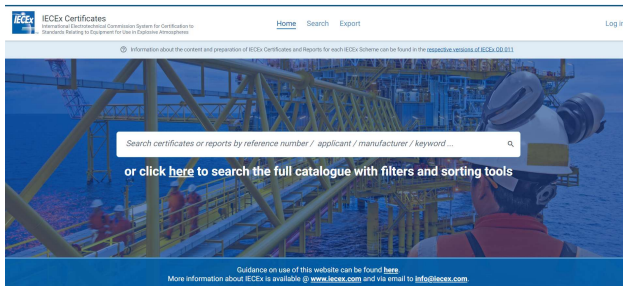
Operates 3 Separate Certifications Schemes:

- Not limited to electrical – Mechanical Ex equipment and systems are covered
- Organisations and individuals apply to any of the ExCBs for IECEx Certification
- Digital IECEx Certificates issued in *real-time* and available for free public viewing *SINCE 2003*
- *Access to using the well known IECEx Conformity Mark on Products*

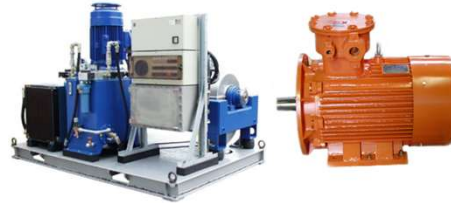




Summary of IECEx (3 separate Certification Schemes)



IEC System for Certification to Standards relating to Equipment used for Explosive Atmospheres, Ex



Certified Equipment Scheme
Ex Equipment, Components and Assemblies



Certified Services Scheme
Ex Services, e.g Ex Repair Workshops



Personal Certification
Certification of Competence

Certifies Products, (inc Components, Assemblies + Mechanical Equipment), Services and Persons to IEC and ISO International Standards. Initial and on-going audits required (eg factory inspections)

Full public access to all issued IECEx Certificates – **On-Line version the master and controlled version, in real-time.**

Mutual Recognition of Test Reports and Factory audit Reports applicable only to IECEx Certified Equipment Scheme.



IECEx Certificates of Conformity



IECEx Equipment Scheme

Equipment / Components

IECEx Certificate of Conformity
INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No: IECEx EMT 21 00008 Page 1 of 5
Status: Current Issue No: 1 Certificate Status: New 0 2020-01-15

Date of Issue: 2020-01-15

Applicant: Olexa Electronics Limited
Olexa House
Barnfield Business Park
Barnfield Road
Barnfield
Aberdeen AB21 0PS
United Kingdom

Equipment: EX1000 Electromagnetic Transmitters

Original covering: Flameproof

Marking: Ex d, I, II, III, T1, T2, T3

Approved for issue on behalf of the IECEx Certification Body: Stephen Winstanley
Signature: Certification Manager

Certificate issued by: element

Ex Equipment,
Components +
Systems +
**Mechanical
Equipment**

Assemblies

IECEx Certificate of Conformity
INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No: IECEx EMT 21 00008 Page 1 of 5
Status: Current Issue No: 2 Certificate Status: New 0 2020-01-15

Date of Issue: 2020-01-15

Applicant: Pangea Power Transformers Ltd
Pangea Power Transformers Ltd
C/O 1 Commercial City of New South
Wales
Sydney NSW 1500
Australia

Equipment: Oil Filled Transformers

Original covering: Rubber Enclosure of this Certificate

Marking: Ex d, Ex n, Ex L, Ex S

Approved for issue on behalf of the IECEx Certification Body: Alex Kazzal
Signature: Certification Manager

Certificate issued by: DNV

Ex Equipment
Unit Verification
e.g.
"Assemblies"

Services

IECEx CoC
Certified Service Facility
INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No: IECEx CASE 00000 Page 1 of 1
Status: Current Issue No: 2 Certificate Status: New 0 2020-01-15

Date of Issue: 2020-01-15

Applicant: Pangea Power Transformers Ltd
Pangea Power Transformers Ltd
C/O 1 Commercial City of New South
Wales
Sydney NSW 1500
Australia

Type of Service: Repair and Overhaul of Electrical Rotating Machines and Generators

Original covering: Rubber Enclosure of this Certificate

Marking: Ex d, Ex n, Ex L, Ex S

Approved for issue on behalf of the IECEx Certification Body: Matthew Fiddling
Signature: Audit Team Manager

Certificate issued by: CSA GROUP

Ex Services, eg
Repair +
Overhaul
Installation
Inspection

Personnel

IECEx Certificate
Personnel Competence
INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No: IECEx OPM 00000 Page 1 of 1
Status: Current Issue No: 2 Certificate Status: New 0 2020-01-15

Date of Issue: 2020-01-15

Applicant: Elexor
Elexor
Elexor House
Elexor Road
Elexor
Elexor
Elexor

Type of Service: Personnel Competence

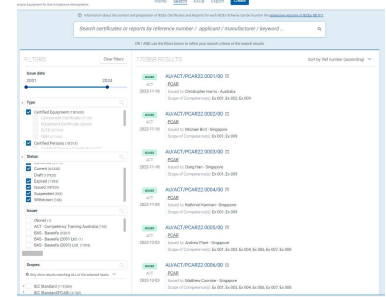
Original covering: Rubber Enclosure of this Certificate

Marking: Ex d, Ex n, Ex L, Ex S

Approved for issue on behalf of the IECEx Certification Body: Elexor
Signature: Elexor

Certificate issued by: Elexor

Ex Competent
Person, with
Photo ID Card



On-Line Certificates
issued in **Real Time** –
Full Public Access

>100 IECEx Approved
Certification Bodies
can issue International
IECEx Certificates

Dedicated Unit 011 for
Hydrogen Safety
according to ISO
15916
Standardised way of
doing Certification

Product testing + initial factory
inspection + annual surveillance

IECEx Certificates issued in 90+ Countries

IECEx Website + On-Line Certificate of Conformity System

www.iecex.com



https://www.iecex.com/

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CQM 07.0007X** Page 1 of 1 [Certificate history](#)

Status: **Current** Issue No: 3 [Issue 2 \(2012-12-16\)](#)
[Issue 1 \(2012-02-09\)](#)
[Issue 0 \(2007-06-30\)](#)

Date of Issue: **2025-09-22**

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baojian Road, Jiaxing District, Shanghai, 2011038
China

Equipment: **Explosion-proof Light Fittings for Fluorescent Lamp typed BAYS1-Q Series**

Optional accessory:

Type of Protection: **Flameproof enclosure "db", Increased safety "eb", Powder filling "q", Dust ignition protected by enclosure "tb"**

Marking: **Ex db eb q IIC T4 Gb; Ex tb IIC T60°C Db
-10°C to +60°C**

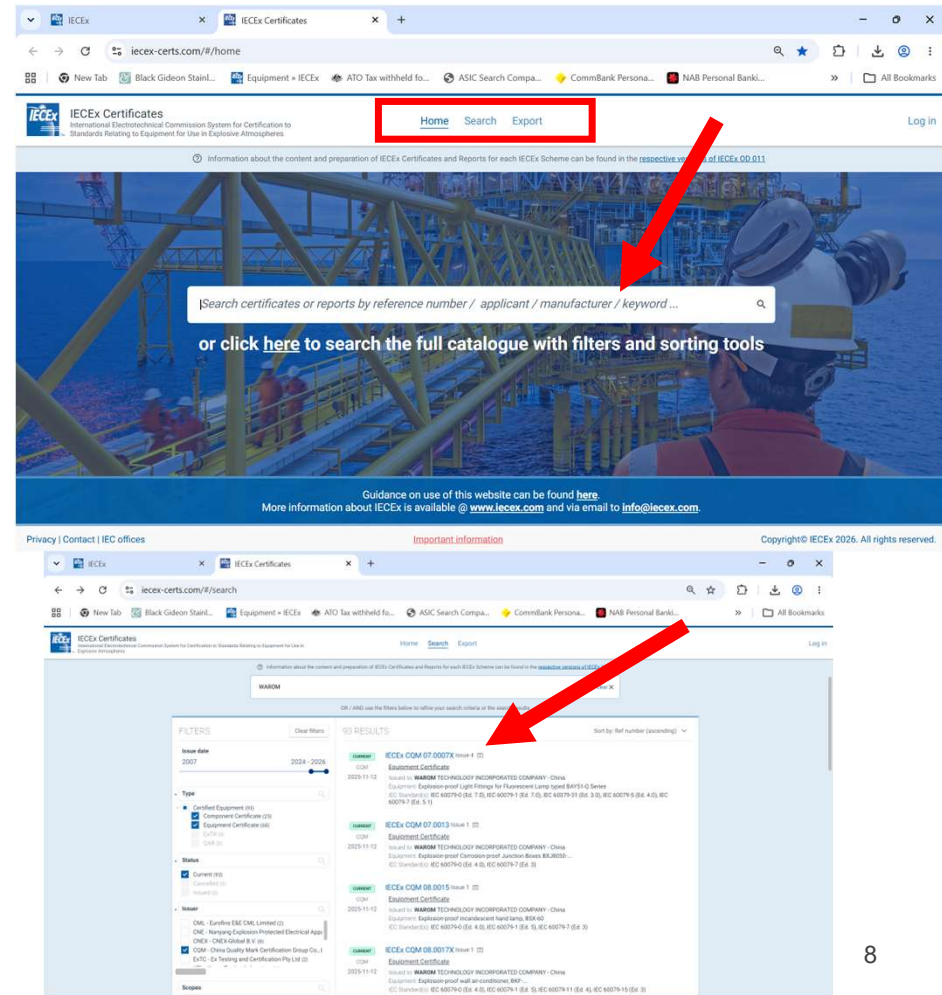
Approved for issue on behalf of the IECEx
Certification body: **Ji Xiaodong**
Position: **President**

Signature: (for printed version)
Date: (for printed version)

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2. This certificate is not transactable and remains the property of the issuing body.
3. The Scheme and authenticity of the certificate may be checked by visiting www.iecex.com or use of this QR Code.

Certificate issued by:
China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100040
China

CQM
China Quality Mark





PREVENTING FIRES AND EXPLOSIONS

It only takes three.
Eliminate one to stop the fire.

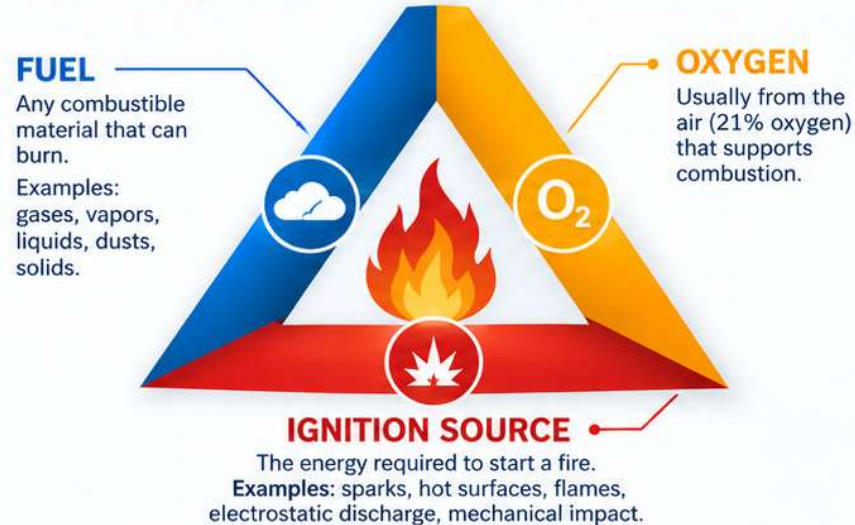
PEOPLE | INDUSTRY | INNOVATION | SAFETY | A STRONGER TOMORROW

GLOBAL
STANDARDS
SAFER PEOPLE
SAFER INDUSTRIES
BRIGHTER
TOMORROWS



THE FIRE TRIANGLE

A fire or explosion requires the three elements of the fire triangle to be present at the same time.



REMOVE OR CONTROL ANY ONE OF THESE ELEMENTS
and a fire or explosion cannot occur.



Remove Fuel



Remove Oxygen



Remove Ignition Source

IECEx – GLOBAL SOLUTIONS FOR SAFETY

IECEx provides internationally recognized certification, testing and competency systems that help prevent fires and explosions in hazardous areas.



CERTIFIED EQUIPMENT SCHEME

Ensures equipment used in explosive atmospheres is designed, tested and certified to the highest international standards.



CERTIFIED SERVICES SCHEME

Certifies service facilities that carry out activities such as installation, inspection, maintenance, repair and overhaul of Ex equipment, ensuring they are competent and meet IECEx requirements.



CERTIFIED PERSONS SCHEME

Certifies individuals who have the knowledge and skills to work safely in hazardous areas, supporting competent design, installation, inspection and maintenance.



GLOBAL RECOGNITION

One system. Multiple countries.
IECEx certification is accepted worldwide, reducing risk and facilitating global trade.



CONFORMITY ASSESSMENT

Independent third-party assessment and ongoing surveillance provide confidence that certified products, services and persons continue to perform safely.



IECEx – International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres
www.iecex.com



REDUCE RISK



PROTECT PEOPLE



KEEP INDUSTRY OPERATING



SUPPORT A SUSTAINABLE FUTURE



**SAFETY IS NO ACCIDENT.
IT IS A CHOICE.**



Why have Conformity Assessment Services such as IECEX in IEC?

The need for a standardized approach to Testing / Certification / Inspection Activities by all Conformity Assessment Bodies (CBs) around the world.

Harmonization the key

- Instils Trust + Confidence
- All assessments / certification done the same way by ALL IEC CA appointed Certification Bodies
- Facilitates Mutual Recognition
- Relies on the IEC trusted brand

NOTE:

IEC is Scheme Owner **BUT** IEC CA activities are performed by Conformity Assessment Bodies (ExCBs and TLs), e.g CQM, NEPSI, CNEx, CMAC, CQC, PCEC + many others





Two Sides of IEC's Business and Operations

Standards Development



Conformity Assessment





IECEx Certified Equipment Scheme – Main Stages to achieve and maintain IECEx

IECEx Provides a single pathway to Certification of:

- Equipment + Components (both electrical + Mechanical) also Assemblies to IEC TS 60079-46
- Certifying to both IEC and ISO Standards
- Certifying to Hydrogen Equipment Standards of ISO

Consistent Approach

All Test and Cert Bodies follow SAME Rules and SAME Procedures

All certificates mean the same

Harmonisation Provides CONFIDENCE

IECEx Certification Explosion Protection

Product Testing Sample Tested & Approved



Tests & Evaluations

Factory Audit Manufacturing Facility Inspection



Initial Factory Audit

Ongoing Surveillance Continued Factory Inspections



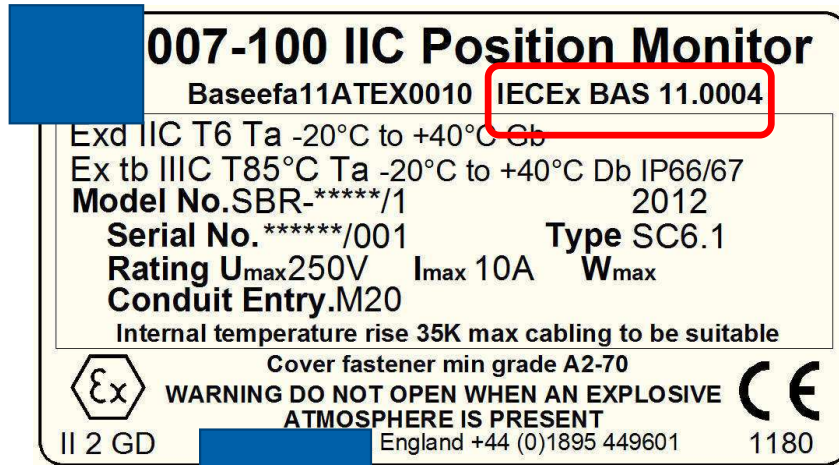
Regular Follow-Up Audits

To Achieve & Maintain IECEx Certification

Certified Product Successfully Tested → Manufacturing Facility Successfully Audited



Unique IECEx Certificate number Appears on products – Example: **IECEX BAS 11.0004**

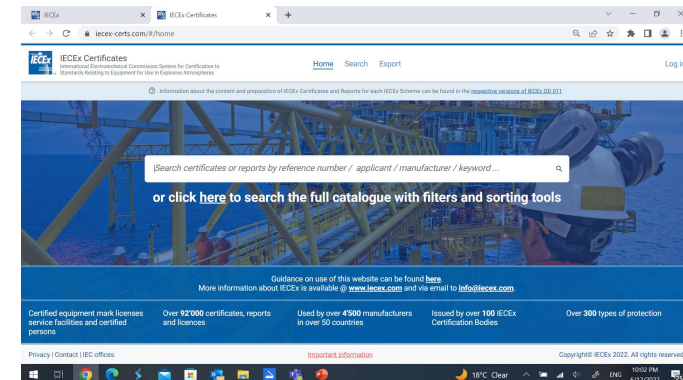


<https://www.iecex-certs.com/#/deliverables/CERT/3339/view>

Under the IECEx Certified Equipment Scheme, the IECEx Certificate number displayed on the product matches the Certificate Number as shown on the Master version on the website – provides **instant verification of claims** of IECEx Certification

IECEX On-Line Certificate System, in *real-time*, helps prevent fraudulent claims

IECEX Certificates – Can ONLY be issued On-Line !!!





IECEX Services Scheme – Main Stages to achieve and maintain IECEx Repair Services Certification



IECEX Certification

IECx Certified Service Facility

Competence of Repair Staff



Competently Trained Personnel

Necessary Equipment for Repairs



Proper Repair Tools & Instruments

Quality Management System



Effective Quality Procedures

To Achieve IECEx Certification as an IECEx Certified Service Facility

IECEX CoC Certified Service Facility		
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com		
Certificate No.:	IECEX CSAE S0019	Page 1 of 1
Status:	Current	Certificate history: Issue 0 (2026-01-23)
Date of Issue:	2026-01-23	Issue No: 0
Applicant:	Plant Electrical Services Sdn Bhd S/Lot 10, Lot 2015/2018 Jalan Sungai, Nuyigu, Bintulu, Sarawak Malaysia	
Type of Service:	Repair, overhaul & reclamation to IEC 60079-19:2025	
Type of Protection:	Flameproof Enclosure "d", Increased Safety "e", Type of Protection "n"	
Scope of Service:	Repair and Overhaul of Electrical Rotating Machines and Generators	
Locations covered by this Certificate:	Plant Electrical Services Sdn Bhd S/Lot 10, Lot 2015/2018 Jalan Sungai, Nuyigu, Bintulu, Sarawak Malaysia	
Facility Audit Report:	GB/CSAE/FAR26 0003/00	
This certificate is issued as verification that the Service Facility and associated locations were assessed and found to comply with the IECEx Scheme requirements, relating to the type and scope of service listed above. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 03 and Operational Documents as amended.		
Approved for issue on behalf of the IECEx Certification Body:	Matthew Fielding	
Position:	Audits Team Manager	
Signature: (for printed version)		
Date: (for printed version)		
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Certificate issued by: CSA Group Testing UK Ltd Unit 6, Hawarden Industrial Park Hawarden, Overdale CH5 3US United Kingdom		

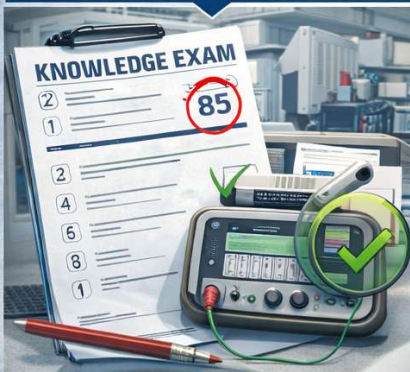




IECEx Certified Persons Scheme – Certifies Competence to be able to apply knowledge and skills

IECEx Certificate of Personal Competence (CoPC)

Pass Knowledge Exam



Pass Practical Skills Assessment



Have Sufficient Experience



Explosion Protection

Pass Practical Skills Assessment

Have Sufficient Experience

To Achieve IECEx Certification of Personal Competence

Re-Assessment Required Every 5 Years

IECEx Certificate Personnel Competence	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com	
Certificate No.: IECEx CP UL19.0023	Issue No: 1
Status: Current	Date of Original Issue: 2022-01-31
Applicant: Li Bofeng China	Date of Expiry: 2027-01-31
Scope of Competence: (Units according to IECEx OD 504)	
Ex 001 - Apply basic principles of protection in explosive atmospheres Ex 003 - Installation - Based on IEC 60079-14 Ex 007 - Visual & Close Inspection - Based on IEC 60079-17 Ex 008 - Detailed Inspection - Based on IEC 60079-17	
For Detailed Information on Scope Application and any Limitations in accordance with IECEx OD 504 click on PCAR Number below:	
PCAR Reference Number: USUL/PCAR19.0023/00 USUL/PCAR19.0023/01	
This certificate is issued as verification that the Applicant was assessed and found to comply with the IECEx CoPC Scheme requirements, relating to the scope of Competence and referenced Standards listed above. This certificate is granted subject to the conditions as set out in IECEx CoPC Scheme Rules, IECEx 05 as amended.	
Approved for issue on behalf of the IECEx Certification Body:	Erin LaRocco
Position:	Staff Engineer
Signature: (for printed version)	
Date: (for printed version)	
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.	
Certificate issued by: UL LLC 333 Plimpton Road Northbrook IL, 60062-2096 United States of America	

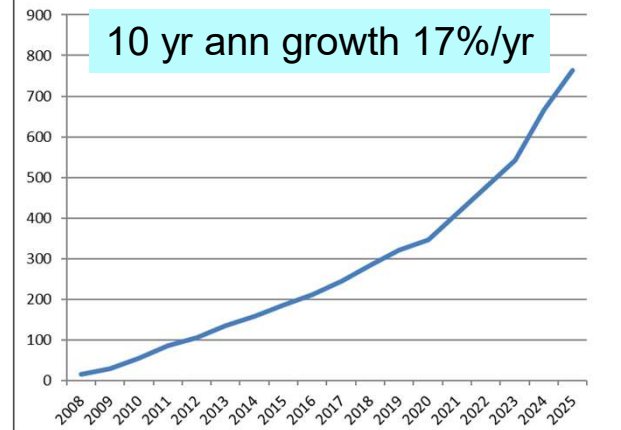


IECEX Stats @ June 2026

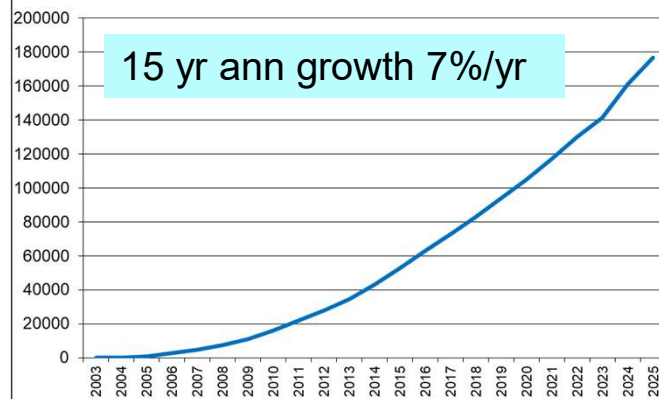
- > 100 Certification Bodies, across IECEx Schemes
 - *The IECEx Service Providers*
- **93** Test Labs
- **42** Recognized Training Providers
- **Equipment Scheme: 176,000+**
- **Services Scheme: 763** Certificates for Service Providers, e.g. Repair Workshops **722**
- **Personal Certification: 12,174** Certificates for Competent Persons



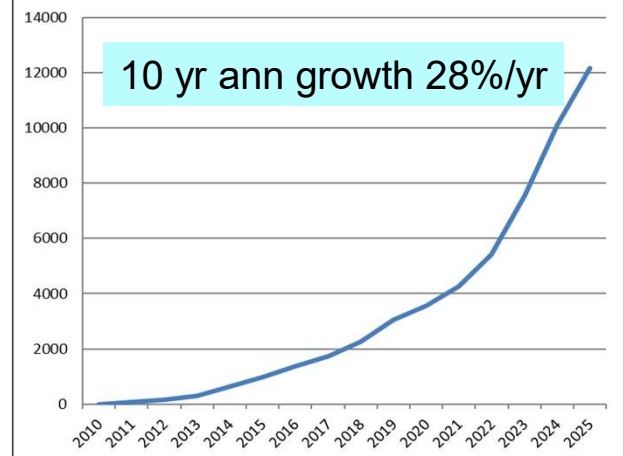
Service Facility Certificates - Cumulative Total



Total Equipment CoCs & Reports on the System



Certified Personnel Scheme - Cumulative Total

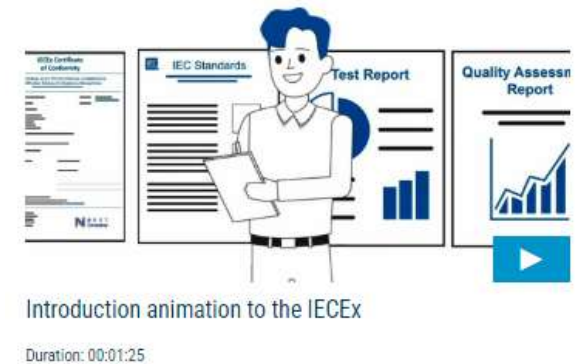




Further information on IECEx www.iecex.com



IECEx Website www.iecex.com updates / enhancements





IEC Quality Assessment System

IEC Quality Assessment System, IECQ:

Covering: Environmental Claims Ecodesign, Carbon Footprint Verification
Electronic Component supply chains



IECQ Value Proposition

IECQ instils trust by providing confidence of Environmental and Technical Claims made by Organizations

- Formed in 1970s initially to support *Electronic Component, Supply Chain*

- 2005 Commenced its first Environmental related CA Services for Hazardous Substances in EE products to address EU RoHS Directive.

2023 Expanded its Environmental Services including Carbon Footprint of Product Verification Certificates offered as a Horizontal Service Offering to **ALL** industries.





Two Sides of IECQ Services

Trusted Conformity Assessment for a Safer, Cleaner and More Sustainable World

Environmental Services Applicable to all industries



Hazardous/Restricted Substance Management

- IECQ HSPM (QC 080000)
- Management of restricted substances
- Supports global market access
- Enables safer and more sustainable products



Carbon Footprint Verification

- IECQ Carbon Footprint (CFP)
- Independent verification to ISO 14067 and IEC 63372
- Supports low-carbon transition
- Applicable to all industry sectors



Supply Chain Management Services For the electronic component industries

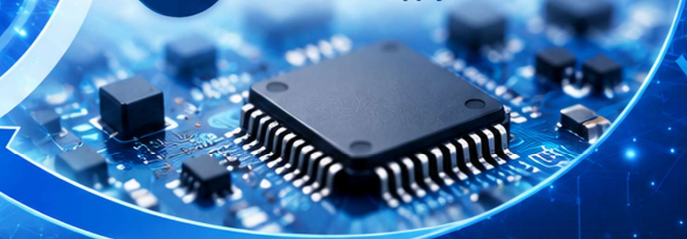


IECQ Quality Assessment and Certification

- IECQ Quality Assessment (IECQ)
- Supply chain due diligence
- Risk management and traceability
- Greater confidence in the electronics supply chain



Supports a more resilient, responsible and sustainable electronics supply chain



COMPLIANCE

CONFIDENCE

SUSTAINABILITY

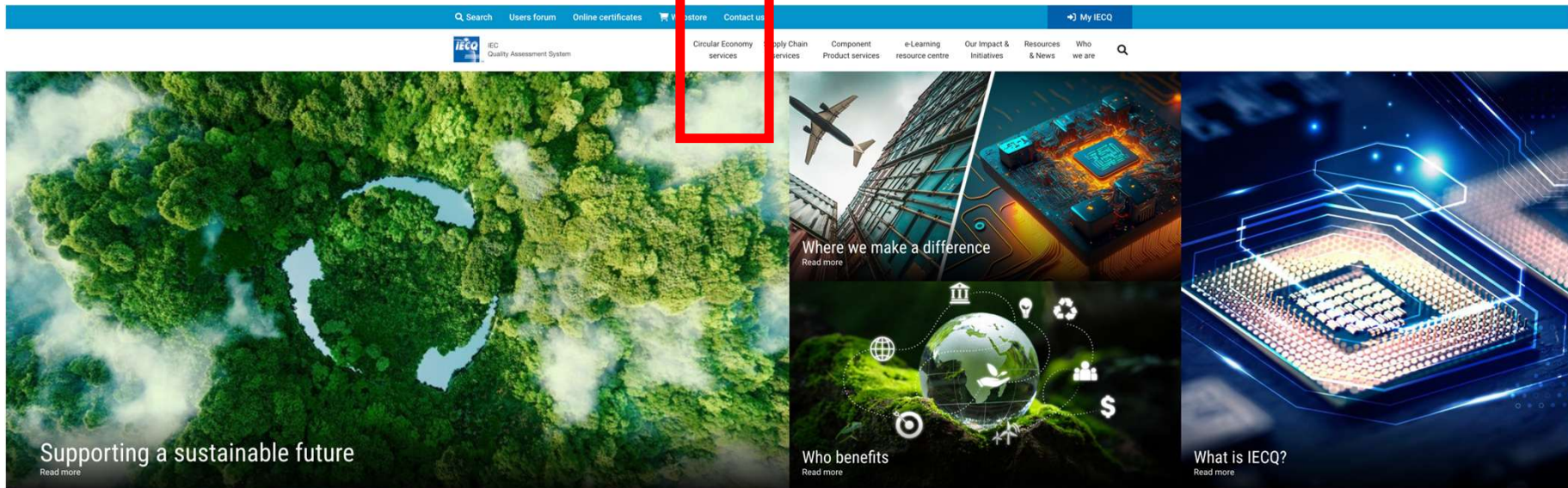
GLOBAL OPPORTUNITIES



IECQ
An IEC Conformity
Assessment System



IECQ Website – Rules / Procedures / Checklists etc + On-Line Certificate System – www.iecq.org



The world of IECQ

An animated video that shows the breadth and scope of IECQ work
Watch to find out more about the IECQ Services in support of Supply Chain Confidence and a Circular Economy.



Download video

Download video

Available with subtitles, simply click on the cc icon.

Available with subtitles, simply click on the cc icon.

With Animated Videos that explain IECQ in more detail



IECQ Website – public information – Environmental Services

www.iecq.org



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Users forum

Online certificates

Webstore

Contact us

My IECQ



IEC
Quality Assessment System

Circular Economy
services

Expand menu Circular Economy services

Supply Chain

Component Product

IECQ in
Action

Our Impact &
Initiatives

Resources &
News

Who we
are



Supporting a sustainable

Read more

Overview

Hazardous substance
process management

Carbon footprint of
product

Carbon Footprint of
Product - Hydrogen

Carbon Footprint at
Organization Level

Environmentally
conscious design

Contact a certification
body

Where we make a difference

Read more

Who benefits

Read more

What is IECQ?

Read more

The world of IECQ

An animated video that shows the breadth and scope of IECQ work

Watch to find out more about the IECQ Services in support of Supply Chain Confidence and a Circular Economy

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Accept

No, thanks



Two Sides of IECQ Services

Trusted Conformity Assessment for a Safer, Cleaner and More Sustainable World

Environmental Services Applicable to all industries



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Supply Chain Management Services For the electronic component industries

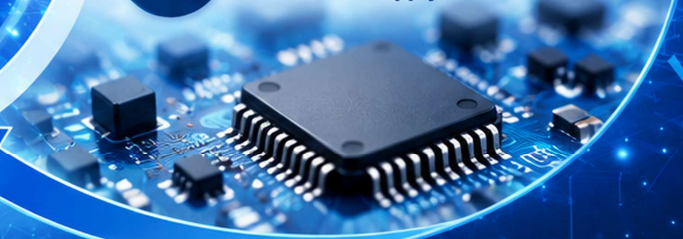


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Supports a more resilient, responsible and sustainable electronics supply chain



COMPLIANCE

CONFIDENCE

SUSTAINABILITY

GLOBAL OPPORTUNITIES



IECQ
An IEC Conformity
Assessment System

IEC's Environmental CA Services: IECQ Hazardous Substances Certification – An example of direct use of IEC Conformity Assessment for Regulations - EU RoHS (Restricted / Hazardous Substances)

IECQ IEC QUALITY ASSESSMENT SYSTEM (IECQ)

For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.: IECQ-H BSI 18.0008	Issue No.: 4	Status: Current
Supersedes: IECQ-H BSI 18.0008 Issue 3	Issue Date: 2025/01/16	Org. Issue: 2019/01/24
CB Reference No.: H699682 IECQ	Expiration: 2028/01/23	

Applicable to:

- EU Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
- EU Directive 2000/53/EC ("End-of Life Vehicles") and its amendments
- China – RoHS 2 2016-01-21 (Management Methods for the Restriction of Hazardous Substances in Electrical and Electronic Products). Including all published amendments
- China – ELV No.38 Notice 2015 by MIIT (Management Requirements for Hazardous Substances and Recovery Rates on Automobiles)

Tyco Electronics Technology (SIP) Co., Ltd
No. 128, Tinglanxiang
Suzhou Industrial Park
Suzhou, Jiangsu, 215026
China

The organization has developed and implemented restricted/hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification:

- IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
The design and manufacture of CE-BOX (Central Electrical Box), connectors, wire harnesses, sensors, mechatronics, relays and antenna systems.

- Attached Schedule: none

Issued by the Certification Body: **BSI**

Kilnmark Court, Davy Avenue
Knowlhill, Milton Keynes MK5 8PP
United Kingdom

Authorised Person:
Shahm Barhom





The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
This Certificate of Conformity may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ System and its Schemes.
This certificate and any schedule(s) may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing IECQ CB.
The status and authenticity of this certificate may be verified by visiting www.iecq.org.

- Attached Translation: none

IECQ-H Rev. 9.0 EN

IECQ IEC QUALITY ASSESSMENT SYSTEM (IECQ)

For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.: IECQ-H BSI 18.0008	Issue No.: 4	Status: Current
Supersedes: IECQ-H BSI 18.0008 Issue 3	Issue Date: 2025/01/16	Org. Issue: 2019/01/24
CB Reference No.: H699682 IECQ	Expiration: 2028/01/23	

Applicable to:

- EU Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
- EU Directive 2000/53/EC ("End-of Life Vehicles") and its amendments
- China – RoHS 2 2016-01-21 (Management Methods for the Restriction of Hazardous Substances in Electrical and Electronic Products). Including all published amendments
- China – ELV No.38 Notice 2015 by MIIT (Management Requirements for Hazardous Substances and Recovery Rates on Automobiles)

Confidence that Regulations covering Hazardous / Restricted Substances are being met

Identifies manufacturers that have controls in place to prevent Hazardous / Restricted Substances entering the manufacturing + supply chain processes.





IEC's Environmental CA Services: IECQ Hazardous Substances Certification – An example of direct use of IEC Conformity Assessment for Regulations - RoHS (Hazardous Substances)

INTERNATIONAL
STANDARD

ISO
9001

Fifth edition
2015-09-15

Quality management systems —
Requirements

Systèmes de management de la qualité — Exigences



Reference number
ISO 9001:2015(E)

© ISO 2015

Plus specific
requirements for
managing
hazardous
substances

Manufacturer
Identify which
Regulations are
being met.



IECQ HSPM is a simple extension to a base line ISO 9001 Quality Management System.
Requires Initial Factory Audit + On-Going surveillance audits.



IEC's Environmental CA Services: IECQ Hazardous Substances Certification – An example of direct use of IEC Conformity Assessment for Regulations - RoHS (Hazardous Substances)

Examples of IECQ HSPM certificates issued. More than 12,600 Certificates issued to date

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.:	IECQ-H SGTW 10.0002.11	Issue No.:	1	Status:	Current
Supersedes:	IECQ-H SGTW 10.0002	Originally Issued:	2006/11/20		
CB Reference No.:	TW HSPM 1026.11	Issue Date:	2025/04/08	Site Added:	2025/04/08
		Expiration:	2027/11/19		

Additional Site to Certification: IECQ-H SGTW 10.0002

Applicable to:

- EU Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
- Other Identified Hazardous Substances

IEC Technologies, S. de R.L. de C.V.
Bvd. Independencia No.10150, Ciudad Juarez, Chihuahua, 32575, Mexico

The organization has developed and implemented restricted/hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification:

- IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
Assembly, development, and production of electronic computers (including laptops).

- Attached Schedule: none

Issued by the Certification Body: **SGS Taiwan Limited**

No. 134, Wu Kung Road,
New Taipei Industrial Park,
Wu Ku District, New Taipei City 24803
Taiwan

Authorised Person:
Stephen Pao

SGS

The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
This Certificate of Conformity may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ System and its Schemes.
This certificate and any schedule(s) may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing IECQ CB.
The Status and authenticity of this certificate may be verified by visiting www.iecq.org.

IECQ-H Rev. 9.0 EN

- Attached Translation: none

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.:	IECQ-H ULTW 10.0030	Issue No.:	8	Status:	Current
Supersedes:	IECQ-H ULTW 10.0030 Issue 7	Issue Date:	2024/08/04	Org. Issue:	2007/09/27
CB Reference No.:	2000344A.QC	Expiration:	2025/09/26		

Applicable to:

- EU Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
- Other Identified Hazardous Substances

Universal Cientific Industrial de Mexico S.A de C.V
Anillo Periferico M. Gomez Morin 656
Residencial Sta. Isabel C.P. 44300
Guadalajara, Jalisco
Mexico

The organization has developed and implemented restricted/hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification:

- IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
The design and manufacture of circuit boards assembly. The manufacture of discrete semiconductor devices. The design and manufacture of system and circuit boards assembly products consisting of Computing & Peripheral, Communication, Consumer and Car Electronics Products.

- Attached Schedule: none

Issued by the Certification Body: **DQS Group - DQS Taiwan Inc.**

8F, 23, Yuan Huan West Road,
Feng Yuan Dist., Taichung City
Taiwan

Authorised Person:
Bob CHEN

dqs

The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
This Certificate of Conformity may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ System and its Schemes.
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IECQ-H Rev. 9.0 EN

- Attached Translation: none

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.:	IECQ-H LCIE 22.0014	Issue No.:	1	Status:	Current
Supersedes:	IECQ-H LCIE 22.0014	Issue Date:	2022/11/18	Org. Issue:	2022/11/18
CB Reference No.:	403.22.04.14.1 LCIE220014	Expiration:	2026/11/17		

Applicable to:

- European Directive 2011/65/EU ("RoHS – Restriction of the use Of certain Hazardous Substances") in electrical and electronic equipment. Including all published amendments
- European Directive 94/62/EC ("Packaging and Packaging Waste") and its amendments
- Customer specified requirements
- Green Process Supplier and Manufacturing requirements

WIWYNN MEXICO S.A. de C.V.
Calle Baudelio Perez Mucharras, Oriente No. 420, Interior A,
Col. Paseos de Zaragoza, Cd. Juarez, C.P. 32550
Mexico

The organization has developed and implemented restricted/hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification:

- IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
Assembly of Server Computers and Rack of Servers

- Attached Schedule: none

Issued by the Certification Body: **LCIE Bureau Veritas**

33 avenue, du Général Leclerc,
92260, Fontenay aux Roses
France

Authorised Person:
Jérôme REYSSON

LCIE

The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
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IECQ-H Rev. 9.0 EN

- Attached Translation: none



Two Sides of IECQ Services

Trusted Conformity Assessment for a Safer, Cleaner and More Sustainable World

Environmental Services Applicable to all industries



Hazardous/Restricted Substance Management

- IECQ HSPM (QC 080000)
- Management of restricted substances
- Supports global market access
- Enables safer and more sustainable products



Carbon Footprint Verification

- IECQ Carbon Footprint (CFP)
- Independent verification to ISO 14067 and IEC 63372
- Supports low-carbon transition
- Applicable to all industry sectors



Supply Chain Management Services For the electronic component industries

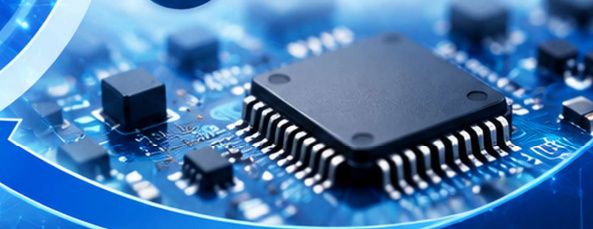


IECQ Quality Assessment and Certification

- IECQ Quality Assessment (IECQ)
- Supply chain due diligence
- Risk management and traceability
- Greater confidence in the electronics supply chain



Supports a more resilient, responsible and sustainable electronics supply chain



COMPLIANCE

CONFIDENCE

SUSTAINABILITY

GLOBAL OPPORTUNITIES



IECQ
An IEC Conformity
Assessment System



International Standards – Carbon Footprint

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INTERNATIONAL
STANDARD

ISO
14067

First edition
2018-08

**Greenhouse gases — Carbon footprint
of products — Requirements and
guidelines for quantification**

*Gaz à effet de serre — Empreinte carbone des produits — Exigences
et lignes directrices pour la quantification*

- Applicable to ANY product including Electrical and Non Electrical eg Ex Products
- Verification is very different to Certification
- Focus is on gathering evidence that the requirements of the Standard, eg ISO 14067, have been applied when determining the Carbon Footprint
- This is NOT testing that the Carbon Footprint value is corrected but rather that it can be **TRUSTED** because International standards have been followed when determining.
- Provides **TRUST** in Environmental Claims - Prevents Green Washing
- Certificates have a 3 year life



IEC 63372

Edition 1.0 2026-01

INTERNATIONAL STANDARD

New IEC Standard
published Jan 2026
dedicated to EE
Products

1 Scope

This document describes principles and methodologies, **specifies requirements** and provides guidance for quantification and communication of **carbon footprint a product** (CFP), emission reductions and avoided emissions from **electric and electronic (EE) products and systems**. This document is also applicable to product-related GHG projects.

Quantification and communication of carbon footprint, GHG emission reductions and avoided emissions from electric and electronic products and systems - Principles, methodologies, requirements and guidance



IEC 63372: Areas to be addressed in determining CFP (Carbon Footprint of Product)

Table 1 – Example of applicable data types

Stage	Data flows in life cycle model	Applicable data types	Stage	Data flows in life cycle model	Applicable data types
a) Raw material acquisition	Amount of total material consumption	Primary data for amount. Secondary data for emissions per material	c) Distribution (retail)	Amount of product and packaging materials shipped to customer	Primary data for amounts
	Amount of material used in product			Type of transport mode used for shipping	Primary data for type of transport. Secondary data for emissions per transport mode service
	Material production emissions	NOTE Primary data for total material consumption can be difficult to obtain		Transport mode service	
b) Product and component manufacturing	Amount of components, parts, modules per product and per location of suppliers and manufacturing site	Primary data for amounts. Secondary data for production emissions per part		Amount of distance used by each transport mode used for shipping	Secondary data. Primary data if activity is run by company
	Amount of electricity per product for final assembly	Primary data for amount and type of electricity. Secondary data for emissions per unit of electricity produced	d) Use and maintenance	Utilization ratio for truck transport used for shipping	Secondary data. Primary data if activity is run by company
	Electricity product			Power consumption of product	Primary data or product's specific secondary data
	Amount of electricity used per printed wiring board and per integrated circuit.			Leakage rate in percentage (%) by time unit (year)	
	Electricity production		e) EoL (recycling and disposal)	Electricity type used	Primary data for amount and type of electricity. Secondary data for emissions per unit of electricity produced
	Amount of packaging materials used per product material production.	Primary data for amounts. Secondary data for emissions per material.		Reclaimed mass or recycled mass, recyclability rate, leakage rate in percentage (%) by mass unit (kg)	Primary data or product's specific secondary data
	Leakage rate as a percentage (%) by mass unit (kg)	Primary data		Type of process used for EoL	Secondary data. Primary data if activity is run by company
				EoL treatment processes	Secondary data for emissions

IEC 63372 aligns and uses ISO 1406X series, eg ISO 14067

NOTE: Applies to ALL types of Electrical products including Ex products / components and Assemblies



IEC's Environmental CA Services: IECQ Carbon Footprint Verification – Launched Dec 2024

IECQ WG 14 Green Approach + Collaboration with IEC TC 111

IECQ QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Verification Statement
Carbon Footprint of Product**

IECQ Certificate No.: IECQ-V LCIE 25.0006 Issue Date: 2025/10/30 Expiration: 2028/10/29
CB Reference No.: 21934008

Maquet SAS
Allée de la Pomme de Pin
45160 Ardon
France

The organization's carbon footprint claim of product has been verified by the independently third party IECQ Conformity Assessment Body, in accordance with IECQ scheme rules, ISO/IEC 17029, and ISO 14065. The decision to issue this verification statement is based on the material fulfilment of requirements as outlined in the below listed standard(s) and specification(s), according to the stated objectives and scope:

- ISO 14067:2018 {Ed 1.0} - Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

Product/Service: Surgical Light MAQUET EZEA®

Carbon Footprint of Product per Functional Unit: Middle East: 2 120 kg CO2 eq.

Carbon Footprint Study Report: 21934008-799749 - Attached Plan(s): none

Additional Information: System Boundary: Cradle-to-grave
- Attached Schedule(s): Annex IECQ-V LCIE 25.0006_1.pdf

Issued by the IECQ Body: LCIE Bureau Veritas
33 avenue, du Général Leclerc
92260, Fontenay aux Roses
France
Authorised Person:
Jérôme REYSSON



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The status and authenticity of this statement may be verified by visiting www.iecq.org

- Attached Translation: none

IECQ-V CFP Product Rev. 01 EN

IECQ QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Verification Statement
Carbon Footprint of Product**

IECQ Certificate No.: IECQ-V LCIE 25.0006
CB Reference No.: 21934008

Annex Number: IECQ-V LCIE 25.0006-A Rev No.: 1 Revision Date: 2025/10/30 Page 1 of 1

Product information:

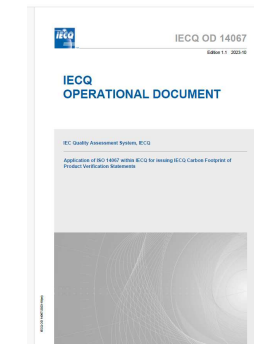
The product system includes:

- 2 x Surgical lights (2xARD570002921)
- 2 x Spring arms (2xARD688021931)
- 1 x Suspension (1xARD569720930)
- 1 x Anchoring tube (1xARD569603099)
- 1 x Anchoring flange (1xARD568604902)
- 1 x Power supply (1xARD567355951)
- 18 x Sterilizable handles (18xARD567917900)

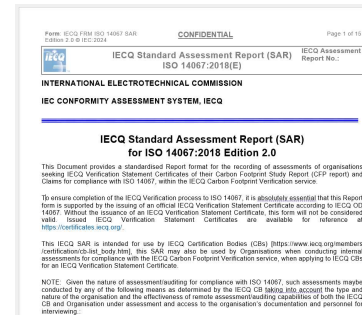
Functional Unit Details:

Function provided: Lighting the operating field with two cupolas
Extent of the function: 2x 1 meter distance and light spot diameter higher than 15cm
Expected level of quality: 2x 100 000 lux at 1 meter distance
Duration/lifetime of the product: 10 years, 10 hours a day, 300 days a year

This annex is only valid in conjunction with the referenced Verification Statement
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Standard
Operating
Procedures



Standard
Checklist +
Report format



IECQ OD 14067

Edition 1.1 2023-10

IECQ OPERATIONAL DOCUMENT

IEC Quality Assessment System, IECQ

Application of ISO 14067 within IECQ for issuing IECQ Carbon Footprint of Product Verification Statements

IECQ CFP verification service offers industry a globally harmonized, standards-based solution for credible product-level and organizational-level carbon footprint verification.

Form: IECQ FRM ISO 14067 SAR
Edition 2.0 © IEC:2024

CONFIDENTIAL

Page 8 of 15



IECQ Standard Assessment Report (SAR) ISO 14067:2018(E)

IECQ Assessment
Report No.:

4 DOCUMENTATION REVIEW AND ASSESSMENT OF IMPLEMENTATION

4.1 ISO 14067 CFP Study Report assessment

Results of the review of the CFP Study Report for compliance with ISO 14067

In order to satisfactorily complete the table below, the person completing this table is required to have immediate access to a full copy of ISO 14067.

Clauses with grey shading indicate a clause heading or that the clause is for information and do not require to be completed. All other Clause require response.

*Possible assessment verdicts: P = Pass, NA = Not applicable, F = Fail, add the Non-conformity number against a clause where a Non-conformity has been issued.

NOTE: Given that ISO 14067 is a generic standard and can be applied to any product(s), certain requirements may be considered Optional or applicable in-part and requires the IECQ CB to consider these requirements in that light. Therefore italic text inside the column "Assessed" has been inserted in the Table below to give guidance to the IECQ CB and identified as:

Apply – Apply as required by the Standard ISO 14067

Guidance – provides guidance to organisations and users of the data (Not required to be assessed by the IECQ CB)

Optional – May not apply to all products and hence IECQ CBs do not need to assess

Apply in-part - Apply in part as it relates to the product under assessment

ISO 14067:2018 clauses		Assessed (Y, N or N/A) If N/A give reason	Organisation's Doc. Ref. List organisations document(s) viewed, with revision status and Comments. List any pertinent details / compliance with requirements of clause and comments of the Assessor	Verdict C = Comply N = does not comply
4.	Application <i>The IECQ CB is to ensure that the CFP Reporting provides a clear statement of its application and that ISO 14026 has been used as is relevant.</i>			
5.	Principles			
5.1	General	<i>Informative</i>	<i>Note to IECQ CBs: As these principles are to be considered throughout the verification assessment, the IECQ CBs are not required to record specific Organisational documents for this Clause 5.</i>	
5.2	Life cycle perspective	<i>Apply</i>		
5.3	Relative approach and functional or declared unit	<i>Apply</i>		



Examples of issued IECQ Certificates



For rules and details of the IECQ visit www.iecq.org

IECQ Verification Statement Carbon Footprint of Product

IECQ Certificate No.: IECQ-V LCIE 25.0006 Issue Date: 2025/10/30 Expiration: 2028/10/29
CB Reference No.: 21934008

Maquet SAS
Allée de la Pomme de Pin
45160 Ardon
France

The organization's carbon footprint claim of product has been verified by the independently third party IECQ Conformity Assessment Body, in accordance with IECQ scheme rules, ISO/IEC 17029, and ISO 14065. The decision to issue this verification statement is based on the material fulfillment of requirements as outlined in the below listed standard(s) and specification(s), according to the stated objectives and scope:

- ISO 14067:2018 (Ed 1.0). Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

Product/Service: Surgical Light MAQUET EZEA®

Carbon Footprint of Product per Functional Unit: Middle East: 2 120 kg CO₂ eq.

Carbon Footprint Study Report: 21934008-799749

- Attached Plan(s): none

Additional Information:

System Boundary: Cradle-to-grave

- Attached Schedule(s): Annex IECQ-V LCIE 25.0006_1.pdf

Issued by the IECQ Body: LCIE Bureau Veritas

33 avenue, du Général Leclerc
92260, Fontenay aux Roses
France

Authorized Person:
Jérôme REYSSON



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IECQ-V CFP Product Rev. 01 EN

- Attached Translation: none

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Certificate of Conformity
Manufacturer**

IECQ Certificate No.: IECQ-P JQAJP 13.0007 Issue No.: 8 Status: Current
Supersedes: IECQ-P JQAJP 13.0007 Issue 7 Issue Date: 2025-05-09 Initial: 2004-05-21
CB Reference No.: JQAQ0009-001-M Expiration: 2028-05-19

Applicant: **YAMASHITA MATERIALS CORPORATION**
CHUGITEC OFFICE, 1-44-12, Komatsubara, Zama-shi, Kanagawa 252-0002, Japan

The organization has established and implemented procedures and related processes that have been assessed by the IECQ Conformity Assessment Body, in accordance with IECQ 03-1 and IECQ 03-2 for issuance of this certificate and found to be in conformity with the applicable requirements of the IECQ Approved Process Scheme and in respect of standard(s) or specification(s).

• Attached Schedule

Process Manual Reference: YM-Q1000 Rev. — Attached plan(s): none

Scope of process activities:
Pattern designing, manufacturing, and component mounting of printed wiring board (for flex and rigid) and sales of these products — Attached schedule(s): IECQ-P JQAJP 13.0007_S8.pdf

Issued by: **Japan Quality Assurance Organization (JQA)**
c/o Safety & EMC Center, 4-4-8 Minami-Osaka
Hachioji-shi, 192-0264, Tokyo, Japan
<https://www.jqa.jp/>

Authorized person: **Sadahiro HIRAWA**

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IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Certificate of Conformity
Hazardous Substance Process Management**

IECQ Certificate No.: IECQ-H BSF 18.0008 Issue No.: 2 Status: Current
Supersedes: IECQ-H BSF 18.0008 Issue 3 Issue Date: 2025/01/18 Orig. Issue: 2019/01/24
CB Reference No.: H99982-IECQ Expiration: 2028/01/23

Applicable to:

- EU Directive 2011/65/EU ("RoHS - Restriction of the use of certain Hazardous Substances") in electrical and electronic equipment, including all published amendments
- EU Directive 2002/95/EC ("RoHS - Restriction of the use of certain Hazardous Substances") and its amendments
- China - RoHS 2.0 (2015-07-24 Management Methods for the Restriction of Hazardous Substances in Electrical and Electronic Products), including all published amendments
- China - ELV (No. 30 Notice 2015 by MIIT Management Requirements for Hazardous Substances and Recovery Rates on Automobiles)

Tyco Electronics Technology (SIP) Co., Ltd
No. 120, Tienmu Road
Suzhou Industrial Park
Suzhou, Jiangsu, 215026
China

The organization has developed and implemented restricted hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification.

• IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
The design and manufacture of CE-BOX (Central Electrical Box), connectors, wire harnesses, sensors, mechatronics, relay and antenna systems.

- Attached Schedule: none

Issued by the Certification Body: **BSI**

Riverside Court, Gypsy Avenue
Keworth, Leicestershire LE8 3PP
United Kingdom

Authorized Person:
Shahin Barham

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- Attached Translation: none

IECQ-H Rev. 3 EN

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Verification Statement
Carbon Footprint of Product**

IECQ Certificate No.: IECQ-V SGSTW 25.0001 Issue No.: 3 Status: Current
Supersedes: IECQ-V SGSTW 25.0001 Issue 2 Issue Date: 2025/05/04 Orig. Issue: 2024/05/03
CB Reference No.: TW250000409 Expiration: 2028/05/03

Applicant: **ASUSTek COMPUTER INC.**
No. 15, Li-Hua Road, Beitou District, Taipei 112, Taiwan

The organization's carbon footprint claim of product has been verified by the independently third party IECQ Conformity Assessment Body, in accordance with IECQ scheme rules, ISO/IEC 17029, and ISO 14065. The decision to issue this verification statement is based on the material fulfillment of requirements as outlined in the below listed standard(s) and specification(s), according to the stated objectives and scope:

- ISO 14067:2018 (Ed 1.0). Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

Product/Service: ASUS ExpertBook B5
B546CVA-P546CVA-BW546CVA

Carbon Footprint of Product per Functional Unit: 199.93 kg of CO₂e

Carbon Footprint Study Report: ASUS Notebook Computer B546CVA Report V1.0, 2025-4-17

- Attached Plan(s): none

Additional Information:
System Boundary: Cradle to Gate
Time Boundary for dates: 01 September 2024 to 31 January 2025
Functional Unit: 1 set (Packaging material included)

- Attached Schedule(s): none

Issued by the IECQ Body: **SGS Taiwan Limited**
No. 115, Wu Hsing Road,
New Taipei Industrial Park,
Wu-Kai District, New Taipei City 24801
Taiwan

Authorized Person:
Stephens Pao

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The status and authenticity of this statement may be verified by visiting www.iecq.org

- Attached Translation: none

IECQ-V CFP Product Rev. 01 EN

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
For rules and details of the IECQ visit www.iecq.org

**IECQ Certificate of Conformity
Hazardous Substance Process Management**

IECQ Certificate No.: IECQ-H TUVRTW 21.0003 Issue No.: 3 Status: Current
Supersedes: IECQ-H TUVRTW 21.0003 Issue 2 Issue Date: 2026/02/05 Orig. Issue: 2021/03/02
CB Reference No.: 91 H5PM 195614 Expiration: 2027/03/01

Applicable to:

- EU Directive 2011/65/EU ("RoHS - Restriction of the use of certain Hazardous Substances") in electrical and electronic equipment, including all published amendments
- Customer specified requirements

Zhong Shan City Richsound Electronic Industrial Ltd.
No. 16, East Shuang Road, Gangkou Town, Zhongshan City,
Guangdong Province 528447,
China

The organization has developed and implemented restricted hazardous substances process management procedures and related processes which have been assessed by IECQ Certification Body in accordance with IECQ 03-1 and IECQ 03-5 for the issuance of this certificate and found to be in conformity with the applicable requirements to the IECQ Hazardous Substances Process Management Scheme and in respect of the IECQ Specification.

• IECQ QC 080000:2017 - Hazardous Substance Process Management System Requirements

This Certificate is applicable for the following scope of activity:
Design and Manufacturing of Household Audio and Headphones

- Attached Schedule: none

Issued by the Certification Body: **TÜV Rheinland Taiwan Ltd.**
11F, No.735, Sec. 4, Baifu Rd.,
Songshan Dist., Taipei 105
Taiwan

Authorized Person:
Ryan C. C. Hsiang

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The status and authenticity of this certificate may be verified by visiting www.iecq.org

- Attached Translation: IECQ-H TUVRTW 21.0003_3 (Chinese)_25 CR.pdf

IECQ-H Rev. 3 EN

- Provides **TRUST** in Environmental Claims
- **Digital** On-Line version is Master Controlled Version with QR Code
- Created live on line in **real time**
- Once Certification Decision is made – Certificate becomes public
- If not seen on-Line, then not issued.
- All Certificates issued by All IECQ CBs in the one location – no navigating separate websites.



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Overview

Hazardous substance
process management

Carbon footprint of
product

Carbon Footprint of
Product - Hydrogen

Carbon Footprint at
Organization Level

Environmentally
conscious design

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body

Where we make a
difference
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Who benefits
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An animated video that shows the breadth and scope of IECQ work

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IEC circular economy certification and verification services support industry in improving resource efficiency, reducing waste, and demonstrating credible environmental performance.

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IECQ Approved process certification (process certification) enables certification of specialized services and operational processes that support supply chain management, conformity, and compliance across various industries and sectors.

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Component product services

IECQ approved component scheme (product certification) provides certification services for electrotechnical components, assemblies, and related materials in conformity with applicable technical standards and specifications.

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IECQ technical training supports the competence of IECQ conformity assessment body personnel, enabling consistent and globally harmonised delivery of IECQ services

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Issue date

2005

2026

Status

- ☐ Current (5972)
☐ Suspended (30)
☐ Superseded (22921)
☐ Cancelled (7415)

Service

- ☐ Carbon Footprint of Product (18)
☐ Hazardous Substance Process Management (36320)

Certificate type

- ☐ IECQ Certificate of Conformity (36320)

36'338 RESULTS

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CURRENT

IECQ-H CEP 12.0013 Issue 12

2026-08-17

IECQ Certificate of Conformity • Hazardous Substance Process Management

Issued to: MOKA TECHNOLOGY (GUANGDONG) CO. LTD • China

Scope: Design & development, manufacture and after-sales service of television, monitor, digital signage, interactive intelligent flat panel display (include plastic products and PCBA); design & development, manufacture and after-sales service of all-in-one PC (aio) (for export only), notebook (for export only).

Standards or specifications: IECQ QC 080000:2017

Available in : [Simplified Chinese](#)

CURRENT

IECQ-H ITRKUK 23.0017 Issue 3

2026-08-17

IECQ Certificate of Conformity • Hazardous Substance Process Management

Issued to: SHENZHEN CHENGYUXING OPTOELECTRONICS CO., LTD. • China

Scope: Design, production and after-sales service of optical components (diffusion plates); Production and after-sales service of optical film.

Standards or specifications: IECQ QC 080000:2017

CURRENT

IECQ-H NOA 26.0139 Issue 1

2026-08-17

IECQ Certificate of Conformity • Hazardous Substance Process Management

Issued to: Qi Li Holding Group Co., Ltd. • China

Scope: Production of stainless steel valves, single-stage horizontal centrifugal pumps and stainless steel pipe fittings (except where licenses are required)



IEC QUALITY ASSESSMENT SYSTEM (IECQ)

For rules and details of the IECQ visit www.iecq.org

IECQ Verification Statement Carbon Footprint of Product

IECQ Certificate No.: IECQ-V LCIE 25.0006
CB Reference No.: 21934008

Issue Date: 2025/10/30

Expiration: 2028/10/29

Maquet SAS

Allée de la Pomme de Pin
45160 Ardon
France

The organization's carbon footprint claim of product has been verified by the independently third party IECQ Conformity Assessment Body in accordance with IECQ scheme rules, ISO/IEC 17029, and ISO 14065. The decision to issue this verification statement is based on the material fulfillment of requirements as outlined in the below listed standard(s) and specification(s), according to the stated objectives and scope:

- ISO 14067:2018 (Ed 1.0) - Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

Product/Service: Surgical Light MAQUET EZEA®

Carbon Footprint of Product per Functional Unit: Middle East: 2 120 kg CO2 eq.

Carbon Footprint Study Report: 21934008-799749

- Attached Plan(s): none

Additional Information:

System Boundary: Cradle-to-grave

- Attached Schedule(s): Annex IECQ-V LCIE 25.0006_1.pdf

Issued by the IECQ Body: LCIE Bureau Veritas

33 avenue, du Général Leclerc
92260, Fontenay aux Roses
France

Authorised Person:
Jérôme REYSSON



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- Attached Translation: none

IECQ-V CFP Product Rev. 01 EN



IECQ Member Certification Bodies

☐ Indicates IECQ CBs providing IEC Environmental CA Services



Plus 7 New CB Applications underway



IECQ Nuclear Supply Chain Certification Compliance to ISO 19443 – Management System requirements for Organisations supplying goods and services to the Nuclear Industry

Certifies an Organisations Management System Process with **ISO 19443**

ISO 19443 uses ISO 9001 QMS as a basis

Addresses goods and services that are Important to Nuclear Safety (ITNS)

A new Service of IECQ – First 5 Certificates issued

Note: - COP28 reports of the signing of a pledge to triple use of Nuclear Energy by 2050 as part of the replacement of reliance on fossil fuels

38

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components,
Assemblies, Related Materials and Processes
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Certified Supplier - ITNS

IECQ Certificate No.: IECQ-P CRR 22.0001	Issue No.: 1	Status: Current
Supersedes:	Issue Date: 2022/01/27	Org. Issue: 2022/01/27
CB Reference No.: 21.89200.026	Expiration: 2025/01/26	

RPE «RADIKO» Ltd.
14A Marx Ave., Obrninsk, Kaluga region
Russian Federation

The organization has developed and implemented procedures and associated processes that have been assessed by the IECQ Certification Body in accordance with IECQ 03-1 and ISO TS 23406 for the issuance of this certificate and found to be in conformity with the applicable requirements of the IECQ Approved Process Scheme (IECQ 03-2) and in respect of standard(s) or specification(s):

- ISO 19443:2018 (Ed 1.0) Quality management systems - Specific requirements for the application of ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS)
- ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS)

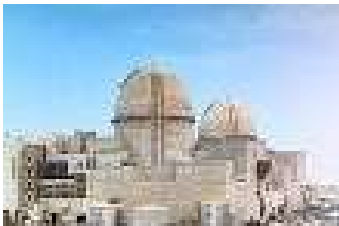
Process Manual Reference: CS-RADIKO-18, Rev. 2021-01-25

Attached Plan(s): none

Scope of Activity:
[Master Site] see additional sites [Production Site] and [Warehouse]:
- design, development, production, execution of installation, commissioning and maintenance of radioisotope devices, devices for measuring and control of ionizing radiation, equipment and systems for monitoring and management of radioactive waste and radiation monitoring (including video monitoring systems);
- design, development of software and methodological support for equipment and systems of radioactive waste control and management, radiation monitoring (including video monitoring systems) and nuclear medicine;
- design, development, production, installation, commissioning and maintenance of process equipment, devices, and systems to ensure personnel protection during processing and storage of radioactive, sterile substances.

Attached Schedule(s): none

Issued by the Certification Body: **Certification Association Russian Register**



INTERNATIONAL
STANDARD

ISO
19443

First edition
2018-05

COP28 NUCLEAR PLEDGE

COP28 → 2050

IEA-aligned view: ambition vs delivery gap

A major infrastructure and supply-chain agenda for IEC Standards and IEC Conformity Assessment

COP28 COLLECTIVE AMBITION

3×

global nuclear
capacity by 2050



IEA CAPACITY OUTLOOK

Today: 420 GW

global nuclear capacity at end-2025

Projected under current policies: ~650 GW by 2050

Net Zero pathway: >1,000 GW by 2050

Message: current policies fall well short of the COP28 tripling ambition and the IEA Net Zero pathway

Policy support has grown

COP28 >20 countries pledged collectively

COP29 +6 countries joined the pledge

>40 countries support expansion or are considering reactors

DELIVERY GAP

Ambition must translate into projects, finance, workforce and global supply-chain capacity

Current build pipeline

+78 GW under construction in 15 countries

~650 GW projected under current policies by 2050

>1,000 GW IEA Net Zero pathway by 2050

IEC ENABLEMENT International Standards | Conformity Assessment | supply-chain confidence | safer equipment and systems

Sources: IEA Global Energy Review 2026; IEA, The Path to a New Era for Nuclear Energy.



How IECQ can be used within countries

Three practical pathways for national confidence in products, suppliers and claims

TRUST
ENABLES
SUSTAINABLE
GLOBAL INDUSTRY

| PEOPLE | PLANET | PROSPERITY

01



Regulatory

Public authorities and regulators

Use IECQ certificates as credible evidence that requirements are met — especially for hazardous/restricted substances, carbon footprint verification and related compliance obligations.



Supports acceptance, surveillance and reduced duplication.

02



Contractual

Procurement and supply chains

Specify IECQ-certified suppliers, components, assemblies, processes or sites in contracts and purchasing programmes, including supply-chain management requirements.



Improves supplier confidence and audit efficiency.

03



Voluntary

Market confidence and differentiation

Organisations voluntarily obtain IECQ certification to demonstrate quality, sustainability and responsible supply-chain performance for products, processes and services.



Strengthens market access, credibility and customer trust.

IECQ outcome:



Recognised evidence



Fewer duplicate audits



Stronger market confidence



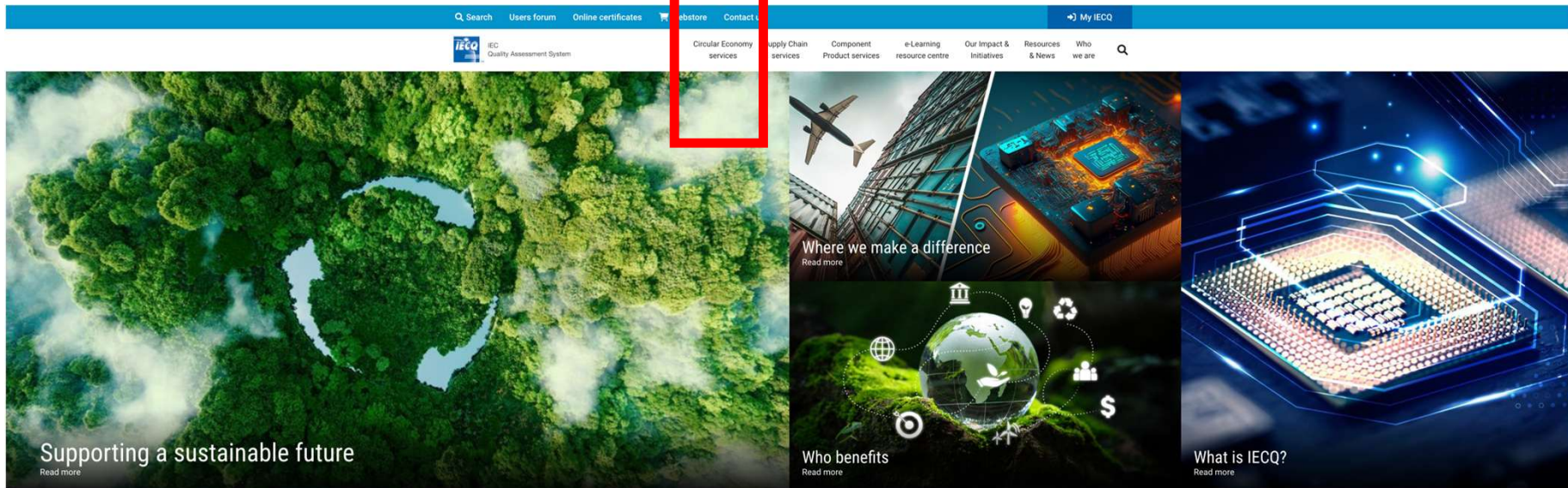
Trusted environmental credentials

GLOBAL STANDARDS | CONFORMITY ASSESSMENT | A CLEANER, SAFER, MORE SUSTAINABLE WORLD

SAFER
CLEANER
MORE RESILIENT
TOGETHER



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Thank You and Questions