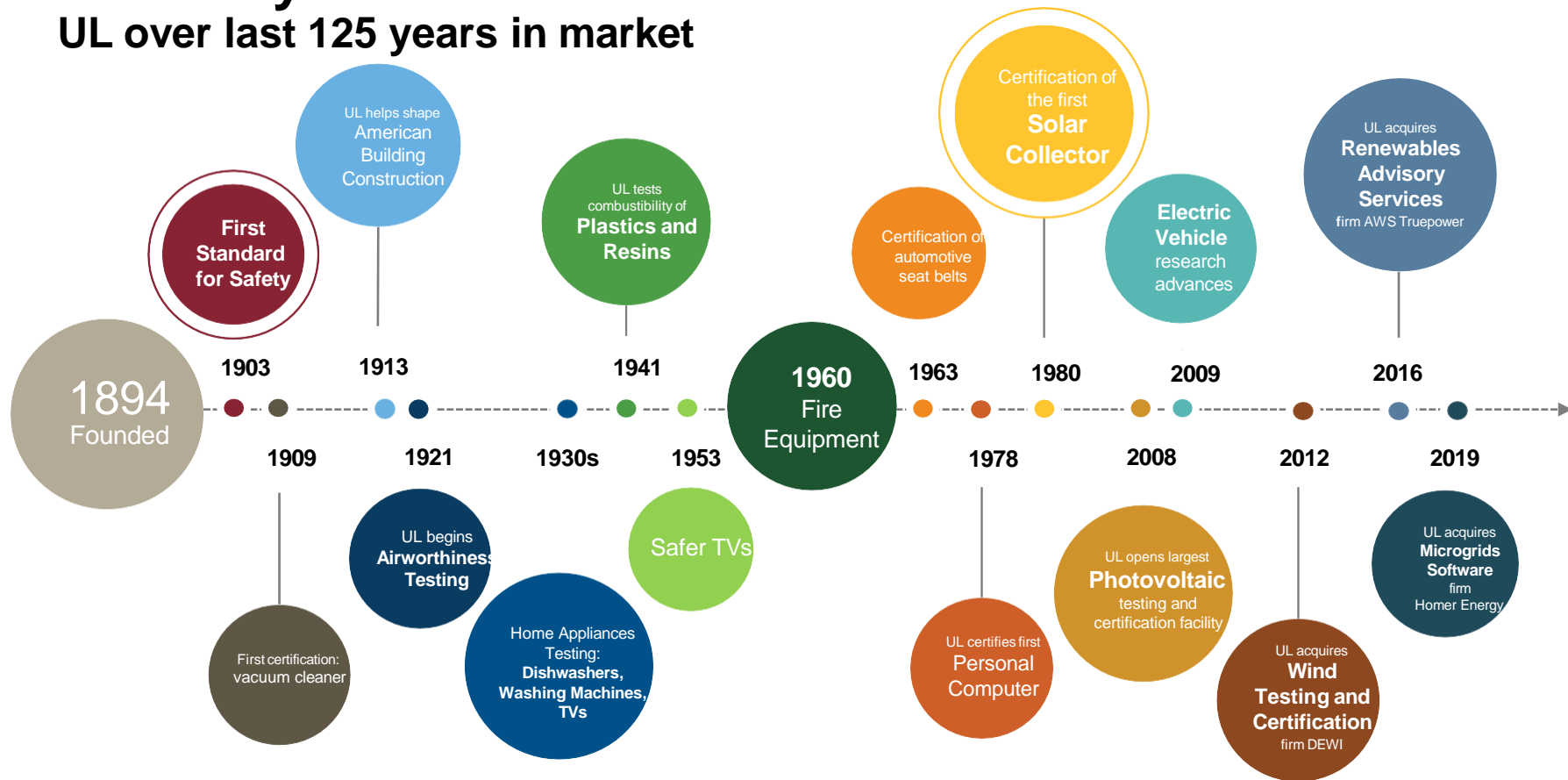


UL CERTIFICATE



A History of Trust

UL over last 125 years in market



CERTIFICATION

A close-up photograph of a hand holding a wooden key with a metal ring. The key is positioned over a wooden block that has the word 'CERTIFICATION' engraved on it. The background is a soft, out-of-focus blue and white gradient.

“procedure by which a third party gives written assurance that a product, process or service conforms to specified requirements, also known as conformity assessment”

Why to certify?



TRUST

SAFETY

QUALITY

1

Avoid biases through independent third party

2

Ensure **trust** in the technology (**safety and structural integrity**) through conformity assessments

3

Risk mitigation for project planning and investment

4

Quality assurance, **commercialization** of the product

How we certify?



DAkkS

ISO/IEC 17065

Accredited certification body



DEA

Recognized certification body
for entire wind related services



KEA

Accepted certification body for
design and type test evaluation



FGW

Accepted for equipment, component, unit
certification, and type A and type B system
certification



IECRE

Accepted RECB for
OD 501 & OD 502



BSH

Recognized
certification body
for offshore projects



MINISTERSTWO
INFRASTRUKTURY



Polish Offshore Recognition with PRS

Committee Participation

- BSH Arbeitskreis Klarstellung
- BWE (Weiterbetrieb)
- DKE AK383.0.5 (IEC 61400-5, -23)
- DKE TBKON / REMC
- FGW AG TR4 - EZA-Regler Modelle
- FGW AK TR4
- FGW AK TR8
- FGW AG TR4 - EZA-Regler Modelle
- FGW FAEE
- IEA Task 52
- IEC TC 88 MT01
- IEC TC 88, IEC61400-50-4
- IEC TC88 PT5 (IEC 61400-5)
- IECRE OD501-1
- IECRE OD501-2
- IECRE OD501-4
- IECRE WG 006
- IECRE WG 008
- IECRE WG 011
- IECRE TF 009
- IECRE WG 501
- IECRE WG010 GCC
- NTS GTSUB
- PTPIREE PL GCC
- WAB Arbeitskreis
Gründungsstrukturen

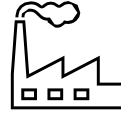


Key aspects within Certification

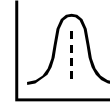
Design



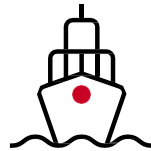
Manufacturing



Testing



**Transport and
Installation**



Comissioning



Core Certification Services

Component

Certification of a wind turbine component like gearbox, blades, floaters etc. as stand-alone as per design assumptions and specific standards

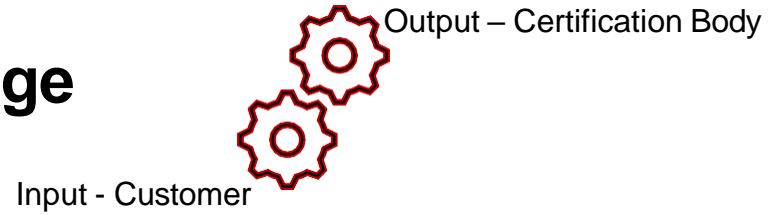
Type

Certification of a type of wind turbines as per design assumptions and specific standards (Tower / Foundation optional)

Project/Wind farm

Certification of complete wind farm including site evaluations, integrated load evaluation, and foundation.

Certification services at earlier stage



Proof of Concept

Objective is to ensure that the design is conceptually acceptable and feasible. Scaled model or component test can be a part during conceptual evaluation. Aim is to mitigate the risk of non-compliance development of the product in **R&D** which can lead to rejection for the market. This can be supported further via „**Certification accompanying Services**“.

Process Certification

As a part of the design evaluation through inspection (remote or physical) at the designer's office. The component design process shall be demonstrated by the customer, for all design phases starting from the used inputs and ending at the finalized component design office. Aim is risk mitigation of development of similar products certified through the same process „**Scalability**“



For more information

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