



Kiwa **Gas Appliances**
Global Market Access



www.kiwa.com

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01 Foreword

As a manufacturer of cooking and catering appliances you seek to sell your products worldwide. Kiwa offers an array of services to achieve exactly that: Global Access.

As your company provides top level products, Kiwa offers quality services that reduce your time to market. With many experts in several fields in 35 countries we have the skills, experience and presence to help you reach your goals.

If you have any questions or need further guidance, please contact us on +44 (0)1242 677877

Your customers, be those consumers or businesses, are demanding increasing evidence of the quality safety, sustainability and durability of the products you manufacture. We understand the challenges you're up against:

- The competitive marketplace
- Complex legislation
- Changing rules and regs
- High costs
- Component availability

With profitability, short time-to-market and flexible sourcing also being paramount, Kiwa offers testing, inspection, certification and associated services for your Cooking and Catering appliances, from concept to end user.

Our core values and corporate culture mean we can build high quality, state of the art tailor-made solutions for our customers. We think globally and act locally.



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About **Kiwa**

We ARE Kiwa

Ambitious Reliable Engaged

Creating trust in the quality, safety and sustainability of our customers' products, processes and services.

Ambitious, Reliable and Engaged. We ARE Kiwa, a global leader in Testing, Inspection and Certification (TIC).

With our certification, inspection, testing, training, consultancy and data services we create trust in our customers' products, services, processes, (management) systems, personal capabilities and environmental performance.

As a Partner for Progress, we work in many industry sectors and market segments, ranging from (drinking) water and renewable energy, construction and industry assets to medical devices, food, feed & farm, radio and wireless and fire safety. We support customers in manufacturing and process industries, (business) services, public and private utilities, governments and international institutions.

Kiwa employs over 10000 people in over 35 countries – in Europe, Asia, the Americas and Oceania. We are a member of the SHV family of companies.



Present in over 35 countries



Top 15 leading TIC Companies



More than 8,000 employees



560 M€ Operating Income in 2020



About **Kiwa**

Three companies form our organisation today: Kiwa, Inspecta and SHV. In 2021, Kiwa joined the SHV Family of Companies whose values and purpose, 'Courage to care for generations to come', align perfectly with our customer and CSR commitments.

Kiwa stands for Trust, Quality and Progress. From the foundations up, everything we do is built on trust.

We are proud to be a partner for progress, acquiring other partners to help us fulfil our commitment – to create trust around the world.

We empower our employees to use their skills, knowledge and expertise to create the best products and services possible for our customers. In turn, this enables them to instil trust in their customers, and so the cycle continues.



Founded in the Netherlands in 1948, Kiwa is now present in over 35 countries with operations across the globe, but our core values, ideals and drive to create trust remains key.

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About **Kiwa's Global Market Access Services for Gas Appliances**



Our **Vision**

Being the recognised authority for delivering **TESTING, INSPECTION** and **CERTIFICATION** services for the HVAC appliance and cooking and catering appliance industries and in doing so, contribute towards a safer, cleaner, more efficient and more sustainable environment for everyone.

Markets

Kiwa helps you get your product into the global marketplace efficiently and expediently.

Product/Service

Expertly delivered testing and certification services for cooking and catering appliances.

Company

Using our knowledge and experience in over 35 countries to bring global market access.

Our Purpose

Kiwa look to provide **INDEPENDENT**, **HONEST** and **HIGH QUALITY** solutions for HVAC Appliance and Cooking and Catering Appliance Manufacturers and Distributors.

Kiwa About us



Kiwa Energy test gas electric and the newest hydrogen appliances. Our specialisms include CE/UKCA, RED, Hydrogen longevity, onsite testing and Cybersecurity.

Kiwa offers customers:

- A globally recognised brand
- Unrivalled Technical expertise
- Fast project turnaround
- One stop shop
- Personal service



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Kiwa HVAC Appliance Testing

Kiwa Boiler Testing

Boiler and Water Heater Testing

Kiwa can test and certify all kind of wall-hanging or floor-standing boilers and water heaters, according to the Gas Appliance Regulation (GAR). The GAR requires mandatory CE marking for all non-industrial gas appliances.

The certification scheme according to the GAR must be performed by a third party (Notified Body). As well as a specified test programme on the product prototype, the manufacturer must also have a contract for surveillance on the production of the appliance.

If you are a producer, supplier, manufacturer, importer, retailer or marketer of boilers and water heaters and wish to test or certify your boiler or water heaters to comply with the GAR, the Low Voltage Directive (LVD) and/or the EMC Directive (EMCD) by an EN17025 accredited laboratory, Kiwa is your partner.

To launch your boiler or water heater on the European or worldwide market, you must have production control and a certificate issued by an independent accredited authority. Wall hanging or floor standing boilers and water heaters must also be tested according to the GAR.

Kiwa will issue an offer specifying the test program, sampling, inspection of your production process and the certification schedule. Our offer takes account of the product test results you may already have acquired from other accredited test institutes. The result is a test report and a certificate. A surveillance agreement is the final step before you can enter the European or worldwide market.

Our testing capability extends to large boilers (bigger than 500kW).



Kiwa Heat Pump Testing

We can test heat pumps to:

- ✓ **EN 14511**
- ✓ **EN 14825**
- ✓ **EN 16147**
- ✓ **EN 12102**
- ✓ **NEN 7120**

Heat pumps provide an environmentally friendly way to both heat and cool buildings and to take care of hot water supplies. An increasing number of new products are emerging in the marketplace, all of which must comply with European directives. To meet these requirements Kiwa can offer a service to facilitate all your testing and certification needs.

Kiwa is one of Europe's most experienced testing and certification companies within the heat pumps and chillers market. We provide ErP, EMC safety, electrical safety, RED, PED and water safety testing.

Kiwa's involvement allows you to focus your attention, time and efforts on your ultimate goal: selling your product with an approval. Our international testing and certification experts have access to high capacity in-house testing facilities, enabling us to perform performance tests on all kind of heat pumps, with electrically or gas driven compressors.

Kiwa's services in the field of testing and certifying heat pumps and heat pump related products are intended for manufacturers or marketers who want their products to be assessed, tested or certified.

Compliance with European directives, labels and certification schemes is paramount before launching new products. Kiwa can help you to comply with the following directives and labels:

- EU directive Energy related Products (ErP)
- Low Voltage Directive (EN 60335-2-40)
- EMC Directive
- Pressure Equipment Directive
- Radio Equipment Directive
- NEN 7120 (EPG for Dutch market, for both heating and hot water)



Kiwa Cooking & Catering Appliance Testing

Kiwa provides global testing and certification of domestic, commercial and industrial catering appliances.

We provide a complete UKCA and CE testing, inspection, certification, EMC, LVD and WRAS Approvals service for catering equipment:

- Open Burner and Wok Cookers
- Gas & Electric Appliances
- Grills
- Hot Water Heaters (For Beverages)
- Ovens (Pizza, Rack)
- Fryers (Inc Range Fryers)
- Griddles (Inc Solid Tops)
- Bain Maries
- Pasta Cookers
- Boiling Pans

Our teams provide (almost) worldwide certifications and we have links to foreign test and certification bodies.

- European gas and electrical appliance approval (GAR/LVD/EMC);
- American gas and electrical appliance approval (CSA, LC, UL)
- American sanitation approval (NSF)
- Australian and New Zealand gas and electrical appliance approval (Global Mark, SAI Global)
- Worldwide electrical approval (CB scheme. Kiwa is NCB and has several CBTLs)
- Russian and Ukrainian approvals (EAC Certification)
- Chinese gas and electrical appliance approvals (CCGas/CQC)

*“The service for our gas testing has been excellent.
The team are very approachable and helpful.”*

Manufacturing Customer



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Kiwa **Gas Training**



Training Course **Domestic Gas Installation**

Gas Diploma

- ✓ For entrants to the industry
- ✓ Some relevant experience required
- ✓ CERT-AIN accredited
- ✓ Takes an average of 9 months to complete
- ✓ Successful completion provides access to CCN1

Gas Safety Refresher (CCN1)

- ✓ Core qualification
- ✓ Provides access to the Gas Safe Register
- ✓ CERT-AIN accredited
- ✓ Takes up to 6 days to complete
- ✓ Successful completion provides access to additional modules

Domestic to LPG Installer

- ✓ A popular course for domestic gas installers who want to work above 70kW
- ✓ CERT-AIN accredited
- ✓ Takes an average of 3 days to complete
- ✓ Means to enter the commercial gas marketplace



Training Course **Commercial Gas Installation**

Commercial Gas Safety (COCN1)

- ✓ Non-domestic gas course is for experienced gas operatives wanting to install, commission and service commercial gas appliances above 70kW and up to 1.8mW
- ✓ CERT-AIN accredited
- ✓ Takes an average of 3 days to complete
- ✓ Pre-requisites are CCN1 or Gas Diploma (MLP)

Domestic to Commercial Changeover (CODNC01)

- ✓ For domestic installers wanting to branch into commercial work
- ✓ Must have CCN1
- ✓ CERT-AIN accredited
- ✓ Takes an average of 3 days to complete
- ✓ Successful completion leads to other modules

Industrial Gas (I-GAS)

- ✓ Designed for maintenance staff and technicians working on gas-fired systems and equipment in industrial premises
- ✓ Must have approved gas qualification (e.g. CCN1/COCN1)
- ✓ IGEM accredited
- ✓ Level 1 available for less experienced operatives



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Kiwa **Projects**

Kiwa Case Studies



The Kiwa Gas team has a unique blend of 'boots on the job' engineering experience and a pool of scientists advising government, gas network operators and related trade bodies.

We support decision makers with practical knowledge as well as scientific understanding from teams immersed in the industry and engaged with its stakeholders.



Project Gas Quality in Oban

The combustion characteristics (based upon its chemical composition) of the gas supply to the home must fall within a narrow band so that it reaches an acceptable level of burning performance. These are defined within UK law. This limits the sources that the gas can come from, and creates high demand for these gas sources (and potentially higher prices).

A project has been conducted in four towns in Scotland to test the feasibility of widening the sources of gas, while retaining efficiency and safety, which could eventually lead to a cheaper gas supply.



Project Overview

The town of Oban is served by a standalone gas network operated by SGN, making it an ideal location for such testing. All of the domestic gas appliances in Oban, ranging from 1950's cookers to state of the art gas fires have been tested on a range of different gas sources to establish whether they can function effectively and safely.

Almost all of the appliances have been proved to work effectively and safely when operated with gases of different chemical composition. Those few that didn't were largely very old appliances.

The HSE are closely involved and the project won first prize at the 2015 Triennial World Gas Conference in Paris. The SGN website has further details.

Connecting the producers and independent buyers within the port area via a hydrogen infrastructure facilitates an energy transition from fossil fuels to hydrogen. This initiative could potentially achieve an annual CO2 reduction of 396 kilotons.

Kiwa provided:

- ✓ Project design
- ✓ Appliance testing
- ✓ Data analysis
- ✓ Risk management
- ✓ Technical advice

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