

# Testing and Certification of CHP, Power systems, Heat Pumps and Chillers

## Why Kiwa?

As an entrepreneur in the energy sector, you have to deal with (international) market regulations. It is vital that you can rely on the certification that you have invested in. Kiwa is recognised by, amongst others, industry trade associations, local and international authorities, certification institutes, and regulatory bodies worldwide! Our staff is continuously at the forefront in standardization and interpretation developments, so up and coming requirements will not surprise us or, consequently, you.

Because we operate an international network of test and inspection facilities (in the Netherlands, England, Italy, Turkey and China) we can be wherever your R&D and Production facilities and, even more important, your customers and/or suppliers are. To us these are not just spots on the world map; they form a team that co-operates closely on daily base.

Kiwa's reports and certificates are clear proof of your (or your 'suppliers') quality, safety and reliability.

If you deal with international markets outside of the EU, we can usually provide you with the necessary certification there as well. By means of our close partnerships with CSA International (North America), GostR (Russia), SAI Global (Australia), JIA (Japan) and many others, you don't need to double your spend in time or money. Let us be your only stop in the world of testing and certification.

## CHP and DG systems

Mini- and micro-Combined Heat & Power (mCHP) and new Distributed Generation (DG) technologies at small scales are of increasing political and public interest and we are involved at many levels including testing and certification of individual technologies. Many new products are emerging based on a variety of prime movers, including low- and high-temperature fuel cells, gas engines, micro-turbines, and Stirling engines. Each system must show compliance to the relevant European Directives before you can sell it on the European market or even put into service.

## Heat Pumps and Chillers

Heat pumps and chillers are coming increasingly into focus in Europe due to the focus on renewable energies.

We are Europe's most experienced testing and certification company for gas fired heat pumps and chillers. Also for hybrid systems and electrical heat pumps & air conditioners we are becoming an interesting partner. In addition we also provide certification services for the Dutch quality label "Warmtepompkeur" regarding heat pumps.

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## Kiwa approach

Kiwa provides a staged process design for testing and certifying your products that will minimise cost and optimize the development process. Alongside testing and reviewing your products, we provide you additional CE-related support during product development by advising on technical issues related to European Directives and standards based on our comprehensive knowledge.

In close cooperation with you, a tailor-made approach will be developed to get your product approved for the European market. We provide the following services:

- Pre-compliance assessment

The main objective is to establish applicable European Directives and standards resulting in an approximate test plan. Furthermore your system will be theoretically reviewed and major critical aspects will be discussed.

- Preliminary testing

This phase consists of practical testing and review of your CHP or DG system.

This will result in a better understanding of possible compliance and if applicable to get approval for a field trial.

During final testing, this additional step will benefit in reduced time and cost.

- Final testing for CE approval and surveillance

Based on a positive result, Kiwa will issue CE certificates and CE declarations and a surveillance contract. Enter into a surveillance contract is essential to be able to enter into the European market.

Involving Kiwa allows you to focus your attention, time, and efforts on your ultimate goal: selling your product with a CE approval and the relevant quality labels.

## Do you want to know more?

If you are interested in our activities and would like to have more information, please contact us, whatever stage your development is at.



## Notified Body according to all relevant European CE Directives:

Kiwa is a Notified Body for all EU directives, related to Energy using Products. Therefore we are entitled to perform all the necessary testing and certification that you need without any hassle.

In summary, Kiwa is notified for the following CE Directives:

- Gas Appliances Directive (**GAD**);
- Low Voltage Directive (**LVD**);
- Electro Magnetic Compatibility Directive (**EMC**);
- Boiler Efficiency Directive (**BED**);
- Construction Products Directive (**CPD**) for solid fuelled appliances, and flue and chimney systems and most other building materials;
- Pressure Equipment Directive (**PED**);
- We are closely involved with and are monitoring the progress of the Energy Using Products "Eco Design" Directive (**EuP**) so can supply you with testing services for all your proposed models.