This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 649905

LabelPack A+

Solar thermal solutions within the Energy Labelling

Actors responsabilities

Place, Date

Actors involved 1/2

Energy Labelling concerns many actors through the market chain. Each of them could be responsible for some actions regarding the label edition.

Supplier: the one **responsible for the manufacturing of the product**. The supplier, its authorised representative in the Union or the importer who places the product in the European market, as the **responsibility of supplying all the relevant documentation, energy label, product fiche and additional documentation, to the dealer**, in order to guarantee that the information is made available to the end.-consumer. The responsibility regards individual product and standardized systems, a package of products assembled and supplied by the same supplier.

Dealer: the one **selling the products or packages delivered by the supplier**. He has to **ensure that the energy label is displayed at the moment of sale** and that all the relevant documentations is given to end-consumers. He **can also propose custom-made packages to his clients and in this case he is the one responsible for issuing the package label.**

Actors involved 2/2

Energy Labelling concerns many actors through the market chain. Each of them could be responsible for some actions regarding the label edition.

System designers: assume the definition of **more complex heating systems, assuring the compatibility between the building's heating needs and the most adequate solutions.** He is not officially involved in the labelling process, but is responsible for the procurement guidelines and as so, should simulate the expected energy class of the proposed heating system.

Installer: he could either just **install a product or a pre-assembled package** from a supplier or dealer, **or also propose his own custom-made package** to end-consumers. In this second case he is responsible for issuing the package label.

End-consumer, or end-user: **should be aware for the correct presentation of the energy labelling and correspondent documentation.**

Labelling responsibilities

Solar water heaters, hot solar water storage tanks and other products 1/2

As individual products, these appliances are directly put on the market by **the manufacturer, its representative or its importer in the European Union**.

These actors **are considered as the first to place the product on the market**.

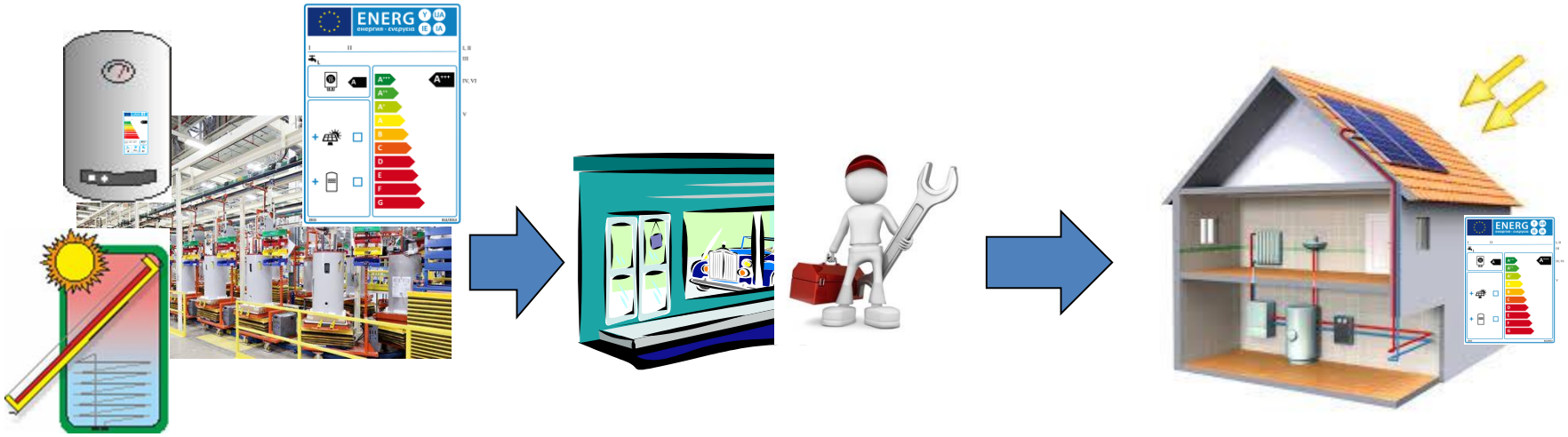
Therefore, they **are responsible for providing each product with**:

- a printed label
- a product fiche
- the technical documentation
- advertisement includes a reference to the energy efficiency class
- technical promotional material includes a reference to the energy efficiency

Other actors in the market chain until the end-consumer just have to ensure that all of the above documentation is correctly transmitted.

Labelling responsibilities

Solar water heaters, hot solar water storage tanks and other products 2/2



Supplier I

Dealer
Installer

Consumers

Labelling responsibilities

Packages of water heater and solar device 1/5

As packages, these products could be placed on the market by the manufacturer (or its representative.), the dealer or the installer.

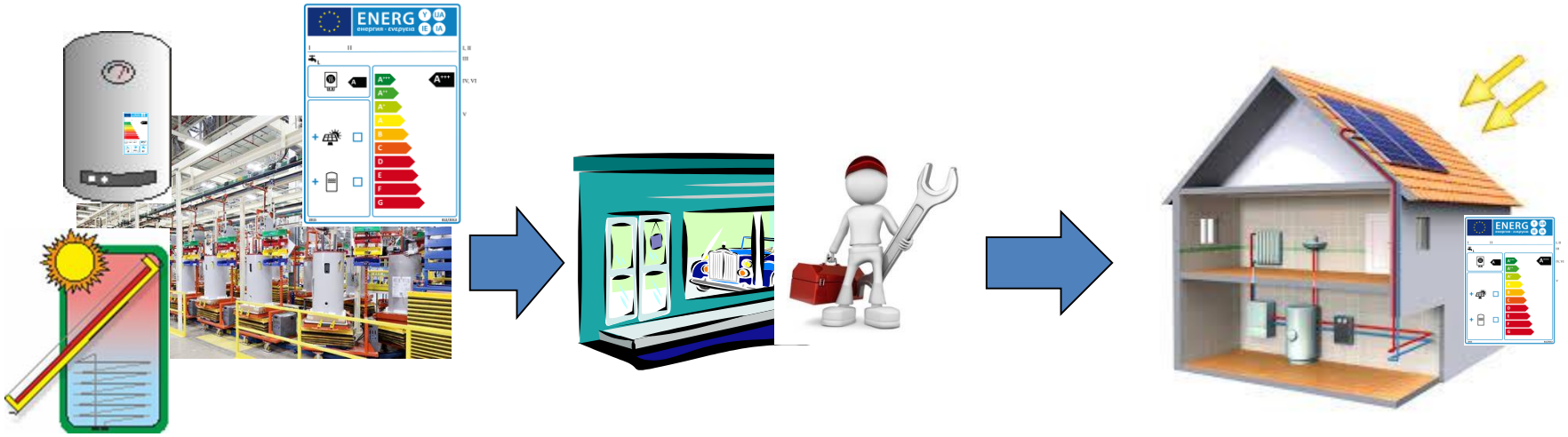
Therefore, **if the manufacturer is the one who pre-assembles the package with products from the same brand, he is the one responsible of calculating and issuing the package documentation** and therefore must provide:

- a printed label and a product fiche for each package component
- a printed package label, which must be displayed on the package
- a fiche for the package
- the technical documentation
- advertisement includes a reference to the energy efficiency class
- technical promotional material includes a reference to the energy efficiency

Labelling responsibilities

Packages of water heater and solar device 2/5

The manufacturer pre-assemble the package with its own elements or products.



Labelling responsibilities

Packages of water heater and solar device 3/5

If the dealer or the installer is the one responsible for defining the package and making the sale, than, he is the one **responsible for calculating and issuing the package label** and as so the one to provide:

- a printed package label, which must be displayed on the package
- a fiche for the package
- the technical documentation
- advertisement including a reference to the energy efficiency class
- technical promotional material including a reference to the energy efficiency

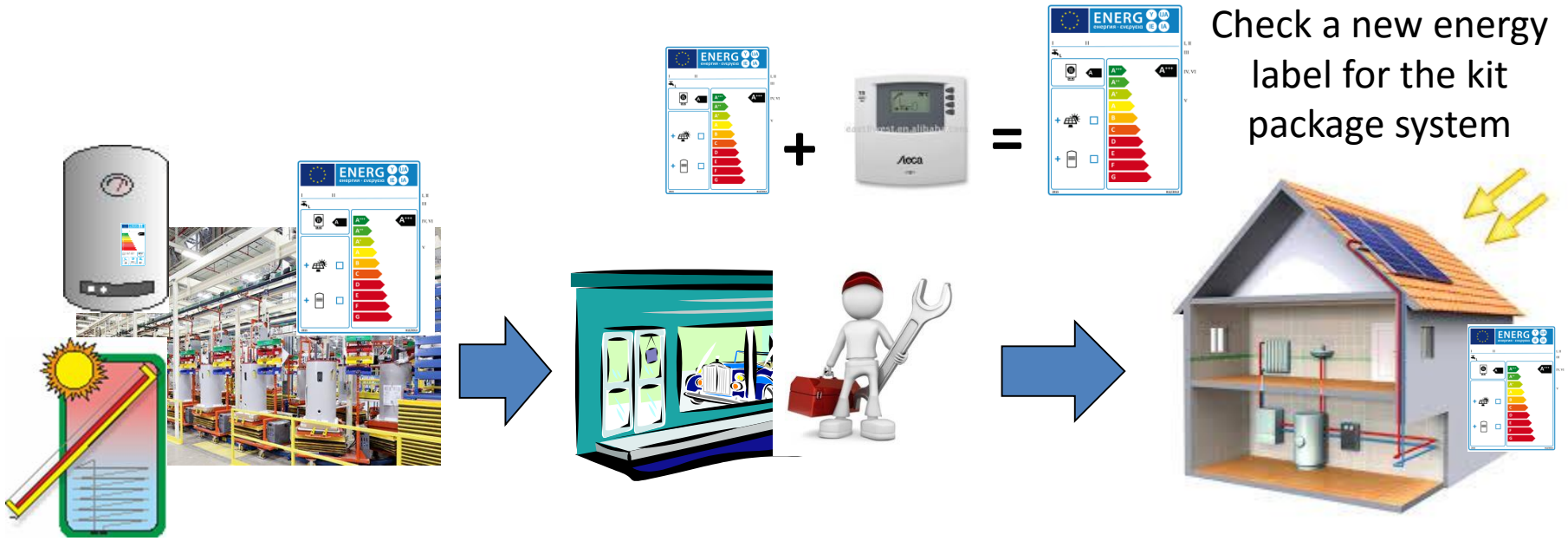
In order to calculate the efficiency of the package, the dealer or installer uses the data provided to each component by the manufacturer through product fiches.

Additionally to the package label, the dealer or the installer must also provide to the end-consumer the energy label and the product fiche for each package component.

Labelling responsibilities

Packages of water heater and solar device 4/5

The dealer or the installer add components to a pre-assembled package.



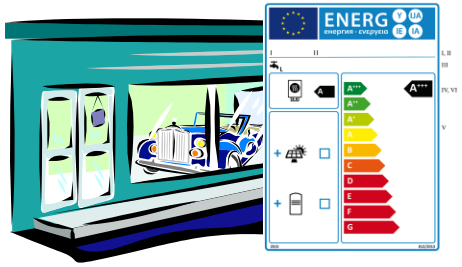
Labelling responsibilities

Packages of water heater and solar device 5/5

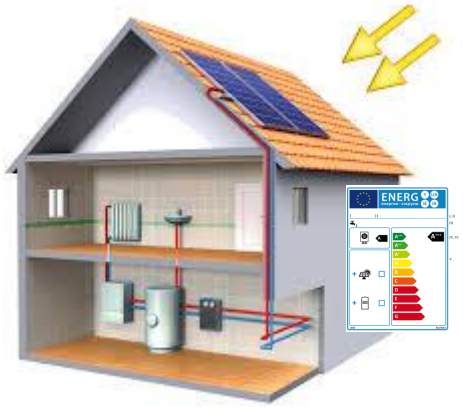
The dealer or the installer define the package from scratch.

Manufacturer I

Manufacturer II



Dealer/Installer



Consumers

Labelling responsibilities

Packages of combination heater, temperature control and solar device

As packages of water heater and solar device, these appliances could be place on the market by the manufacturer (or its representative), the dealer or the installer.

Therefore, responsibilities sharing is the same as above.

The actor who design the package will have to calculate package space and water heating efficiency, based on efficiency of each component.

Package label calculation

Water heater packages including solar device have a dedicated energy efficiency calculation

This calculation takes into account:

- Water heating energy efficiency of the primary water heater (output in %)
- Solar contribution (from fiche of solar device) and the auxiliary electricity

The result is for average climate condition.

The package fiche allow to calculate the result under colder and warmer climate condition.

Detailed calculation method on annex IV of Delegate regulation 812-2013.

Package label calculation

Combination heater packages including solar device have a dedicated energy efficiency calculation for space and water heating

For space heating, this calculation take into account:

- Space heating energy efficiency of the primary generator (boiler, cogeneration or heat pump)
- Contribution of the temperature control (if applicable)
- Contribution of a second boiler (if applicable)
- Solar contribution (from fiche of solar device and water tank)
- Contribution of supplementary heat pump (if applicable)

Detailed calculation method on annex IV of Delegate regulation 811-2013.

Package label calculation

Combination heater packages including solar device have a dedicated energy efficiency calculation for space and water heating

For water heating, this calculation take into account:

- Water heating energy efficiency of the primary water heater (output in %)
- Solar contribution (from fiche of solar device) and the auxiliary electricity

The result is for average climate condition.

The package fiche allow to calculate the result under colder and warmer climate condition.

Detailed calculation method on annex IV of Delegate regulation 811-2013.

Energy labelling on existing appliances

Energy Labelling applies for systems placed on the market. How should be managed the situation of a package is created on-site by the installer, based on existing appliance ?

For example, a house is equipped with a boiler which is not so old, and the owner wants to add a solar water heater.

Due to the existing boiler, the installer could propose to add:

- A solar water heater with electrical back-up: energy labelling for product applies in this case.
- A solar only system, the existing boiler will ensure the back-up. The finished installation will be a combination heater, but in this case, there is no obligation of setting a package label.
    - However, if the installer has access to data of the existing boiler, he could calculate the energy efficiency to argue the relevance of his solution to the end-user.