

How EMMA Works

EMMA (Energy and Micro-generator Manager) prevents the unwanted export of electricity produced by your renewable generator, saving you money and reducing your carbon footprint. This leaflet gives a simple explanation of how EMMA works using the following scenarios as examples:

1A: No household demand for electricity. Without EMMA.

1B: No household demand for electricity. With EMMA.

2A: 1 unit household demand for electricity. Without EMMA.

2B: 1 unit household demand for electricity. With EMMA.

2C: 1 unit household demand. With EMMA. No generator output.

This document covers the standard EMMA model. Other models, such as EMMA GVS (Grid Voltage Stabilisation), have additional functions and features.

Notes

FIT = Feed-In Tariff

All costs are indicative. The 3p you receive for each unit of exported power is based on estimated FIT rates. However, we are not yet aware of anyone being paid for metered exported power, suggesting that the electricity diverted by EMMA is worth 3p more per unit to you than shown here.

Household electricity needs are separated into House needs (indicated by the House symbol) – including appliances, house alarms, lighting, televisions etc. – and Hot Water needs, indicated by a Hot Water cylinder.

In addition to heating water, EMMA can also direct your surplus electricity to space heating, underfloor heating, storage heaters, charging electric vehicles, multiple immersion heaters etc. as per your preferences.

For more information see www.CoolPowerProducts.com

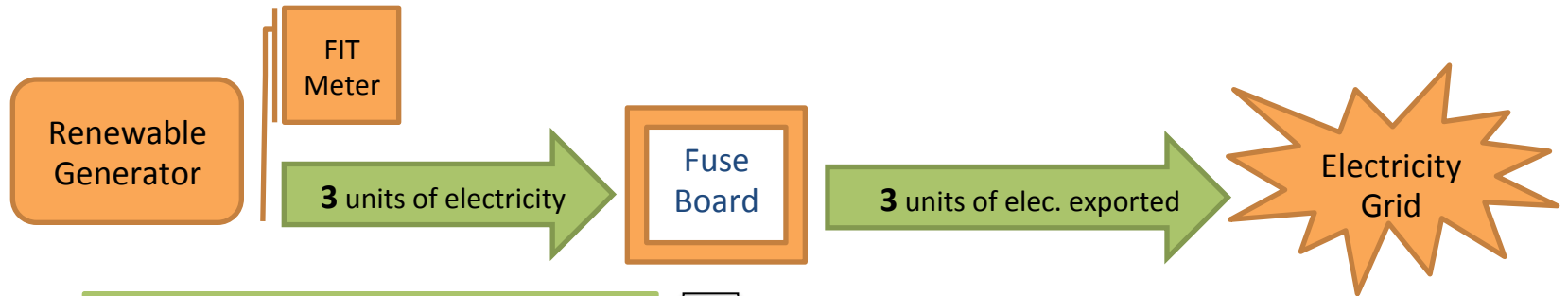
EMMA... PUTS YOU IN CONTROL

ENERGY AND MICRO-GENERATOR MANAGER

FOR SOLAR PV, WIND & WATER TURBINES

The owner was over the moon when the ESB meter stopped and EMMA started diverting his surplus solar PV power to his hot water and heating systems... in mid-February

1A: No household demand for electricity. Without EMMA.



3 units of electricity are being generated, but there is no immediate demand for electricity in the house.

0 units
(no electricity currently needed)

EMMA is based on the principle that you pay more to import a unit of electricity than you are paid for exporting a unit (if, indeed, you get paid for exported electricity at all).

Also, energy losses during import and export (transmission of electricity across the grid) make unnecessary imports and exports environmentally unfriendly.

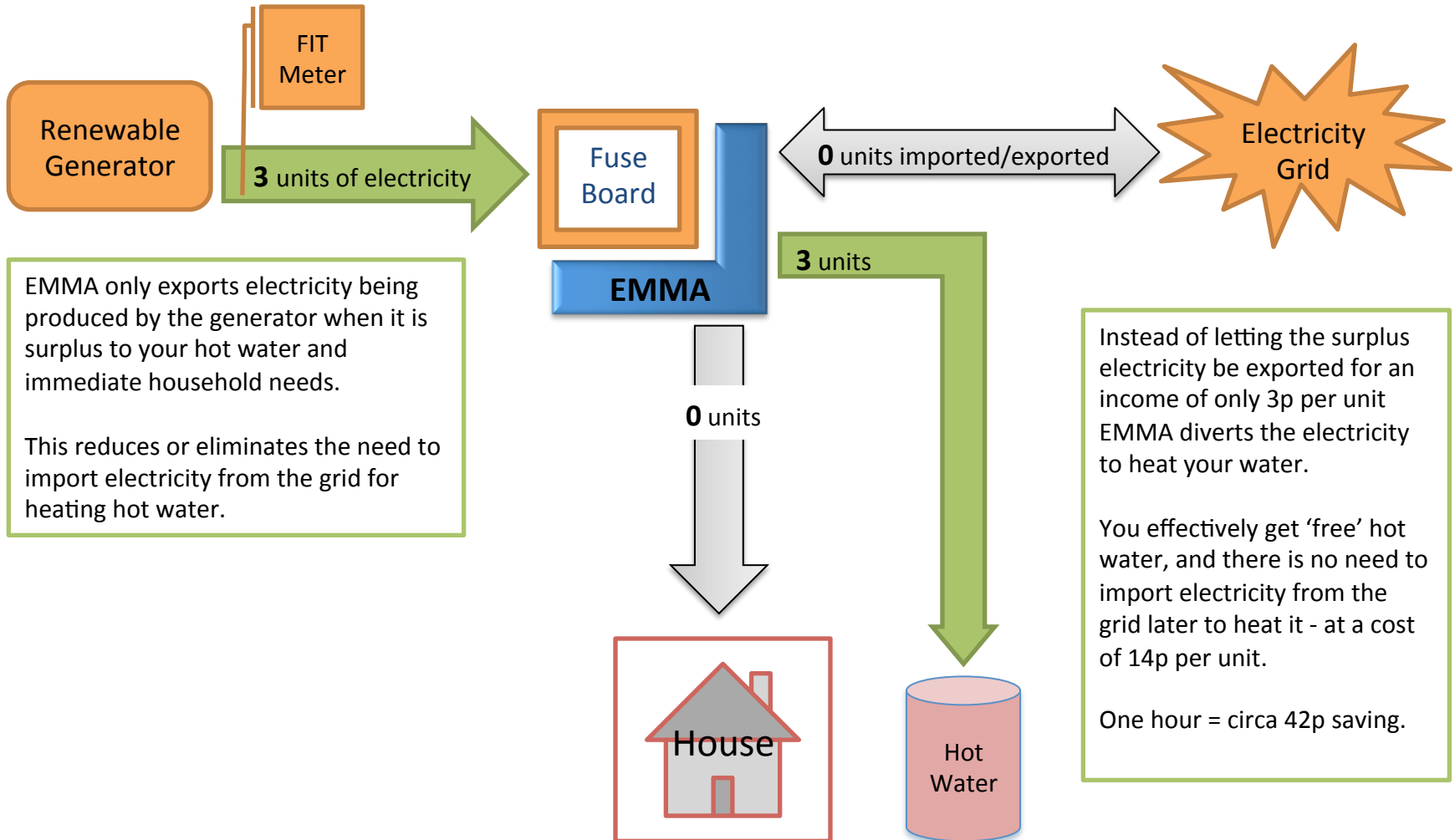
Therefore, by using as much as possible of the electricity produced by your renewable generator onsite, you save money, and minimise your carbon footprint.

Without EMMA, surplus electricity produced by the generator is automatically exported for an estimated income (Feed-in Tariff) of circa 3p per unit.

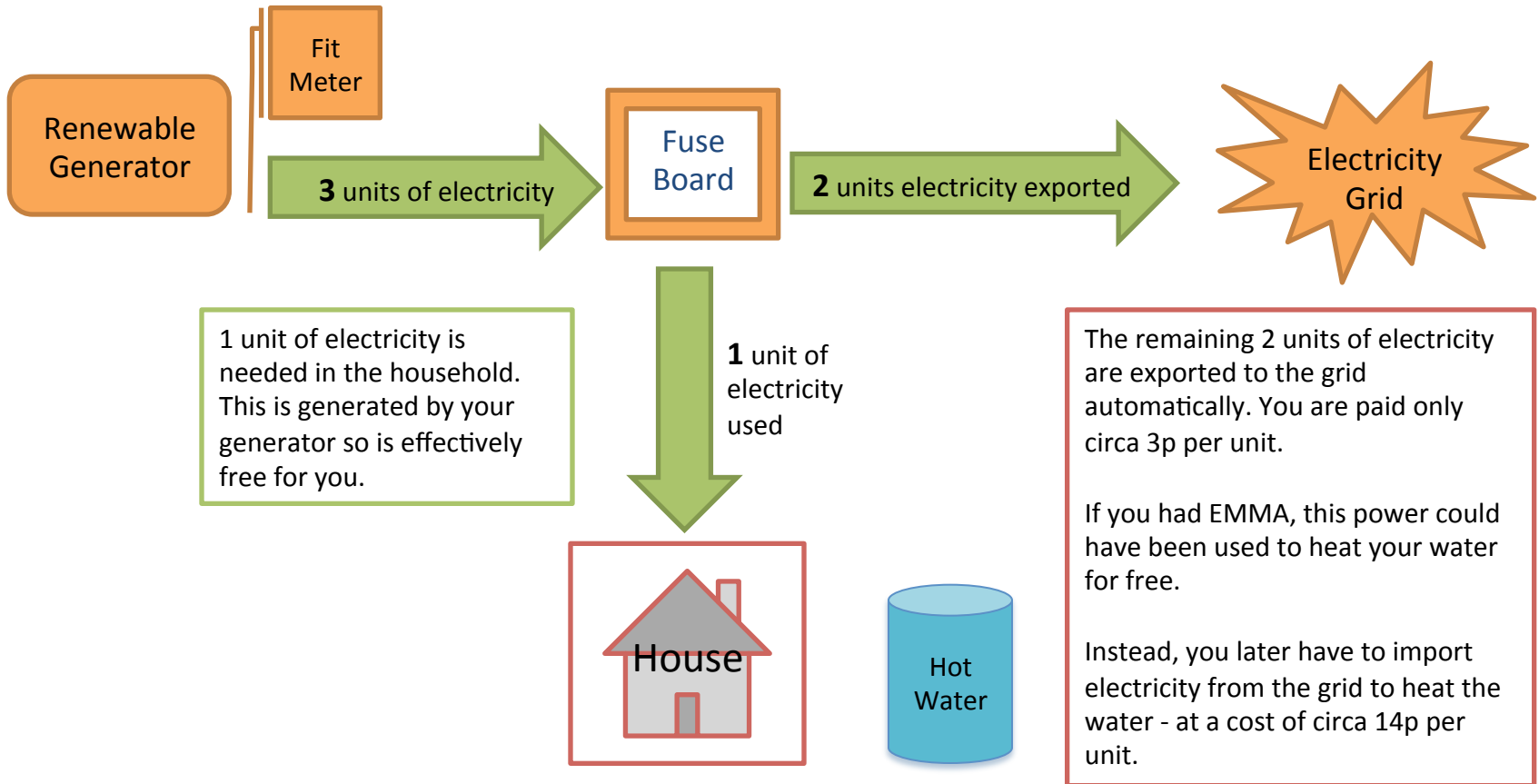
This power could have been used to heat your water for free. Instead, you later have to import electricity from the grid to heat your water - at a cost of circa 14p per unit.

EMMA would have prevented this unnecessary export and import of electricity, so would have saved you money.

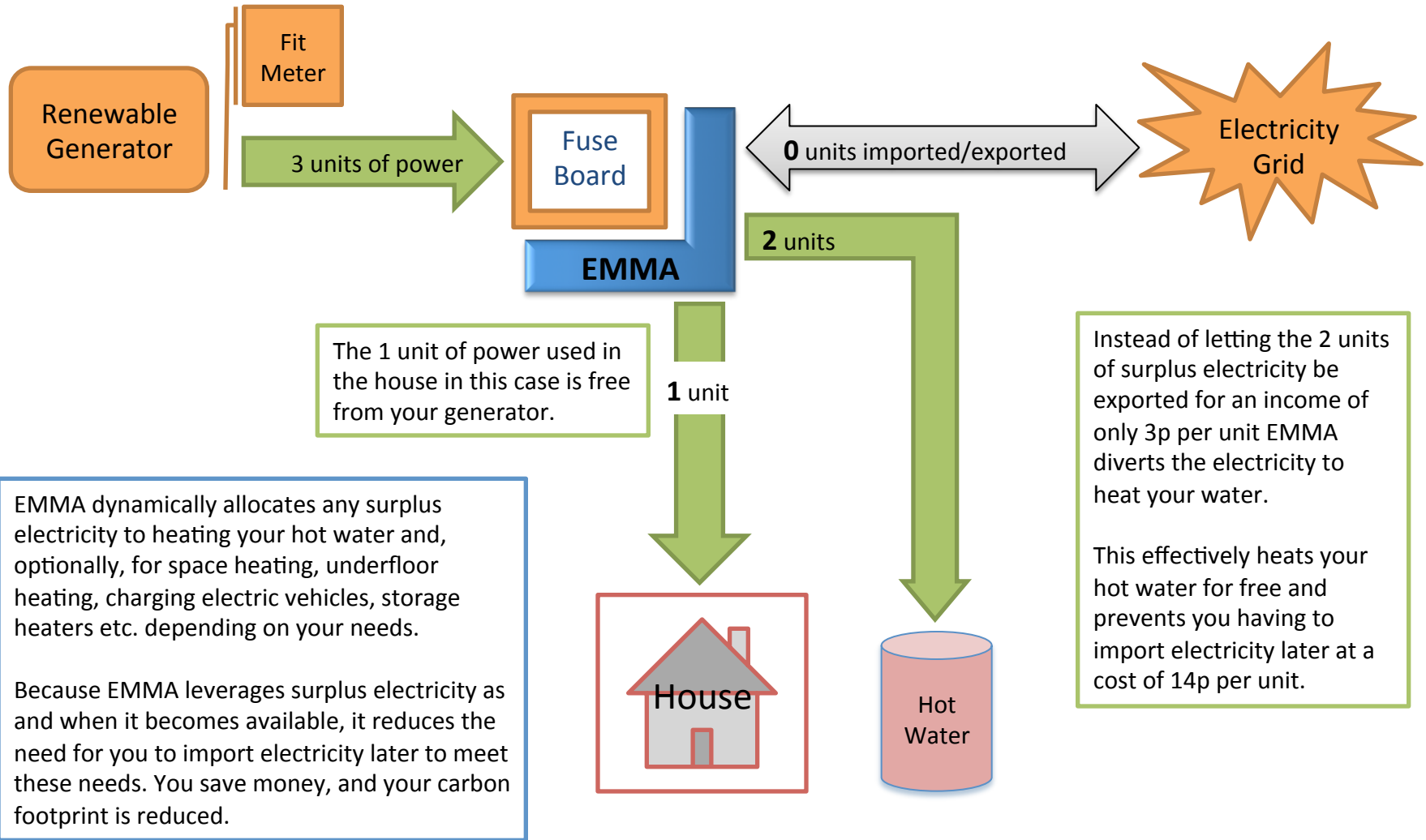
1B: No household demand for electricity. With EMMA.



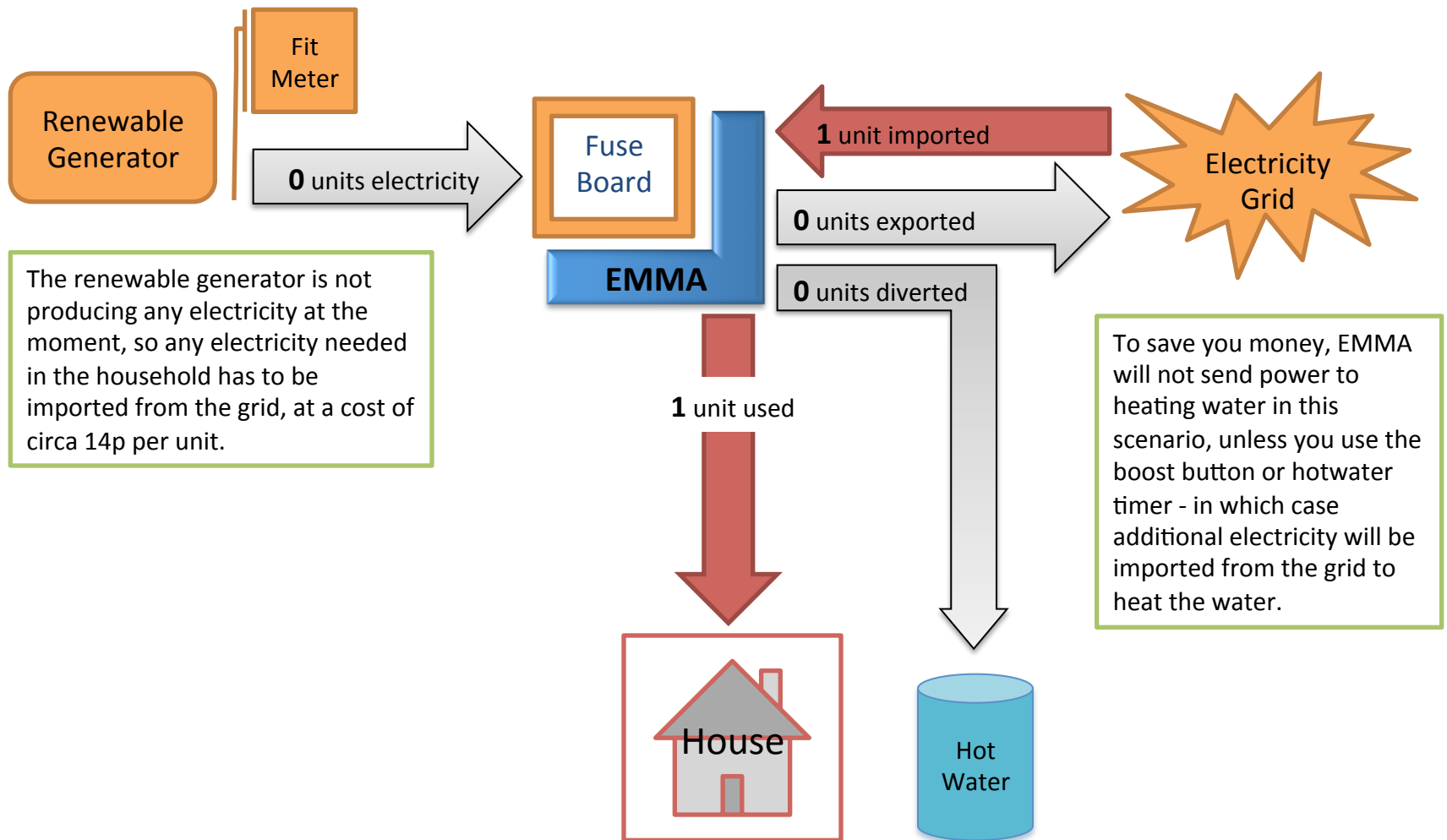
2A: 1 unit household demand for electricity. Without EMMA.



2B: 1 unit household demand for electricity. With EMMA.



2C: 1 unit household demand. With EMMA. No output from generator.



Call Us Today

Cool Power Products Ltd.

We have distributors of EMMA throughout Europe. Please contact us and we will put you in touch with your local supplier.

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Email: **info@coolpower.ie**



For more information on EMMA, including brochures, photos, case studies, distributor maps and technical information visit our website at:

www.CoolPowerProducts.com

If you are interested in becoming a distributor of EMMA, please call us or email info@coolpower.ie

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