

Energy Balance Agricultural Company Zaganelli Ruggero

Total surface area Az. Agraria It has 18.00

Coppice wood area Ha 6.00

SAU (Used Agricultural Area) It has 12.00

Of which: has 5.00 specialized vineyard with intensive sixth

Has 1.50 specialized olive grove

It has 5.50 arable land

Annual agricultural diesel consumption 3,000.00 liters

Annual consumption of methane for heating

and cooking food s.m.c. 2,000.00

n ° 2 photovoltaic systems from Kwp 15.12

and from Kwp 6.00

Annual electricity production

from renewable sources (photovoltaic) KW 28,000.00

Energy used from non-renewable sources (diesel)

L 3.000 x 0.830 = Kg 2.490,00 = g. 2,490,000:

250g. CV / h = CV / h 9,960: 1.36 (Kg / s 102: Kg / s75) = KW 7,323.50 -

Energy used from non-renewable sources (methane)

(Considering a conventional higher calorific value of methane gas equal to 38.5 MJ / Smc, and that 1 Kw / h is equal to 3.6 MJ, the conversion in kW is simple (38.5: 3.6 kW / Smc ): A standard cubic meter of natural gas (Smc) corresponds to 10.69 kW. In analogy to the transformation of agricultural diesel into KW, account must be taken of the efficiency which is around 35%

M.C. 2,000.00 x 10.69 x 0.35 = KW 7,483.00 -

Annual consumption of grid electricity throughout the Company

Agraria including the Agriturismo Piantarosa KW 11.164,00-

Electricity Surplus Produced From Source

Renewable KW 2,029.50

=====