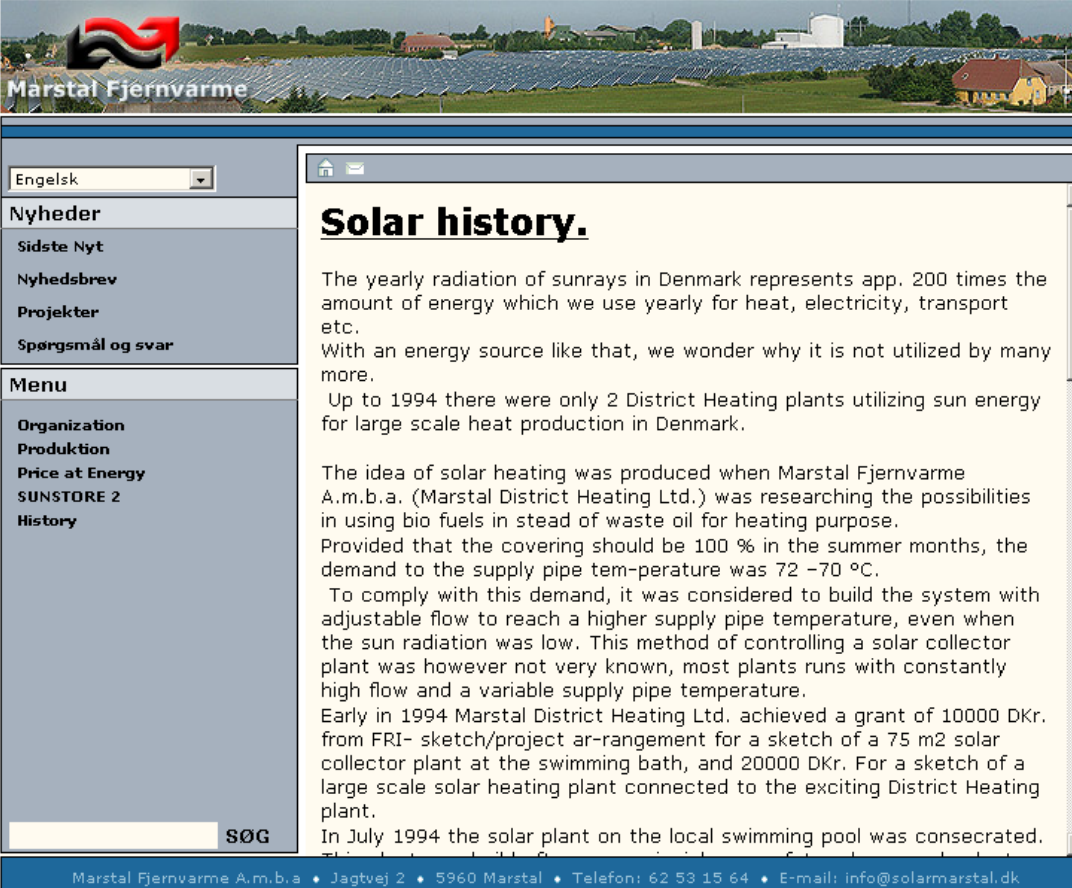


Noi che siamo curiosi . . . navigando in Internet . . .



In Danimarca sull'isola di Ærø il Solare termico NON è un'utopia !!!



The screenshot shows the website for Marstal Fjernvarme. At the top, there is a banner image of a large solar collector field with the text 'Marstal Fjernvarme' and a logo. Below the banner, there is a navigation menu with options like 'Engelsk', 'Nyheder', 'Sidste Nyt', 'Nyhedsbrev', 'Projekter', and 'Spørgsmål og svar'. The main content area features an article titled 'Solar history.' which discusses the use of solar energy in Denmark, mentioning the Marstal District Heating plant and its research into solar collectors. The footer contains contact information for Marstal Fjernvarme A.m.b.a.

Marstal Fjernvarme

Engelsk

Nyheder

- Sidste Nyt
- Nyhedsbrev
- Projekter
- Spørgsmål og svar

Menu

- Organization
- Produktion
- Price at Energy
- SUNSTORE 2
- History

SØG

Solar history.

The yearly radiation of sunrays in Denmark represents app. 200 times the amount of energy which we use yearly for heat, electricity, transport etc. With an energy source like that, we wonder why it is not utilized by many more.

Up to 1994 there were only 2 District Heating plants utilizing sun energy for large scale heat production in Denmark.

The idea of solar heating was produced when Marstal Fjernvarme A.m.b.a. (Marstal District Heating Ltd.) was researching the possibilities in using bio fuels in stead of waste oil for heating purpose. Provided that the covering should be 100 % in the summer months, the demand to the supply pipe tem-perature was 72 -70 °C.

To comply with this demand, it was considered to build the system with adjustable flow to reach a higher supply pipe temperature, even when the sun radiation was low. This method of controlling a solar collector plant was however not very known, most plants runs with constantly high flow and a variable supply pipe temperature.

Early in 1994 Marstal District Heating Ltd. achieved a grant of 10000 Dkr. from FRI- sketch/project ar-rangement for a sketch of a 75 m2 solar collector plant at the swimming bath, and 20000 Dkr. For a sketch of a large scale solar heating plant connected to the exciting District Heating plant.

In July 1994 the solar plant on the local swimming pool was consecrated.

Marstal Fjernvarme A.m.b.a • Jagtvej 2 • 5960 Marstal • Telefon: 62 53 15 64 • E-mail: info@solarmarstal.dk

eticaenergetica ha chiesto informazioni direttamente ai danesi . . .

- Fra: mirko [mailto:info@eticaenergetica.it]
 - Sendt: 31. januar 2006 22:23
 - Til: INFO@SOLARMARSTAL.DK
 - Cc: leoholm@mail.dk; p.mortsen@mail.tele.dk; nielsaage@mail.dk
 - Emne: No combined-cycle gas turbine plant
-
- We are a group of citizens who live in Bologna, a town located in the north of Italy (<http://maps.google.com/maps?f=q&hl=en&q=bologna,+Italy&t=k>), dealing with a problem concerning district heating, energy production, power plants and pollution.
 - The council of our city is planning to build a new power plant together with HERA spa – a multiutility of which the council is a share holder – to satisfy the energy demands of the west side of the city. The main reason why the council and HERA want to build a new plant is that the one now in use is out of date and small sized. The old plant was built to produce heating and hot water for large blocks of the area the new one should produce also electric power.
 - The new plant should be a turbo gas power plant with 40 MW electric power and 25 MW termic power.
 - Our main problem is that the new plant is planned to be built in a highly populated area, within a rotary road with a lot of traffic passing through, near a big hospital, schools and in the middle of the only green area in the west side of the city.
 - Another problem is that, to produce electric power and hot water, the plant must work even in summer, heating the air further more and polluting it.
 - The population of the area is worried about the high level of pollution caused every single day by the traffic and do not desire to get worse.
 - This is the reason we got organized to face the problem with the council and HERA spa, in order to find the best solution. So we are discussing with them regarding the place where the new plant is to be built (the first idea seems to be not the only one possible) and what kind of plant can satisfy our needs. Our desire is to look for less polluting solutions.
 - We know you have a great experience in the subject above mentioned, and on the basis that the council is giving us the possibility to find out different ideas, we would like to ask you if it is possible to come to our town to study with us all together the best solution.
 - We have created a web site <http://www.eticaenergetica.it> and an e-mail address info@eticaenergetica.it.
 - We look forward for your kind answer.
 - Mirko Pedretti, Silvia Lolli, Alberto Quarantotto, Gianna Gamberini, Marco Mariotti, Valeria Gualandi, Davide Esperti, Barbara Bergonzoni and 2970 more citizens who subscribed.

[WWW.ETICAENERGETICA.IT](http://www.eticaenergetica.it)

. . . e hanno risposto . . .

WWW.ETICAENERGETICA.IT



Marstal
DANIMARCA

18.365 m²

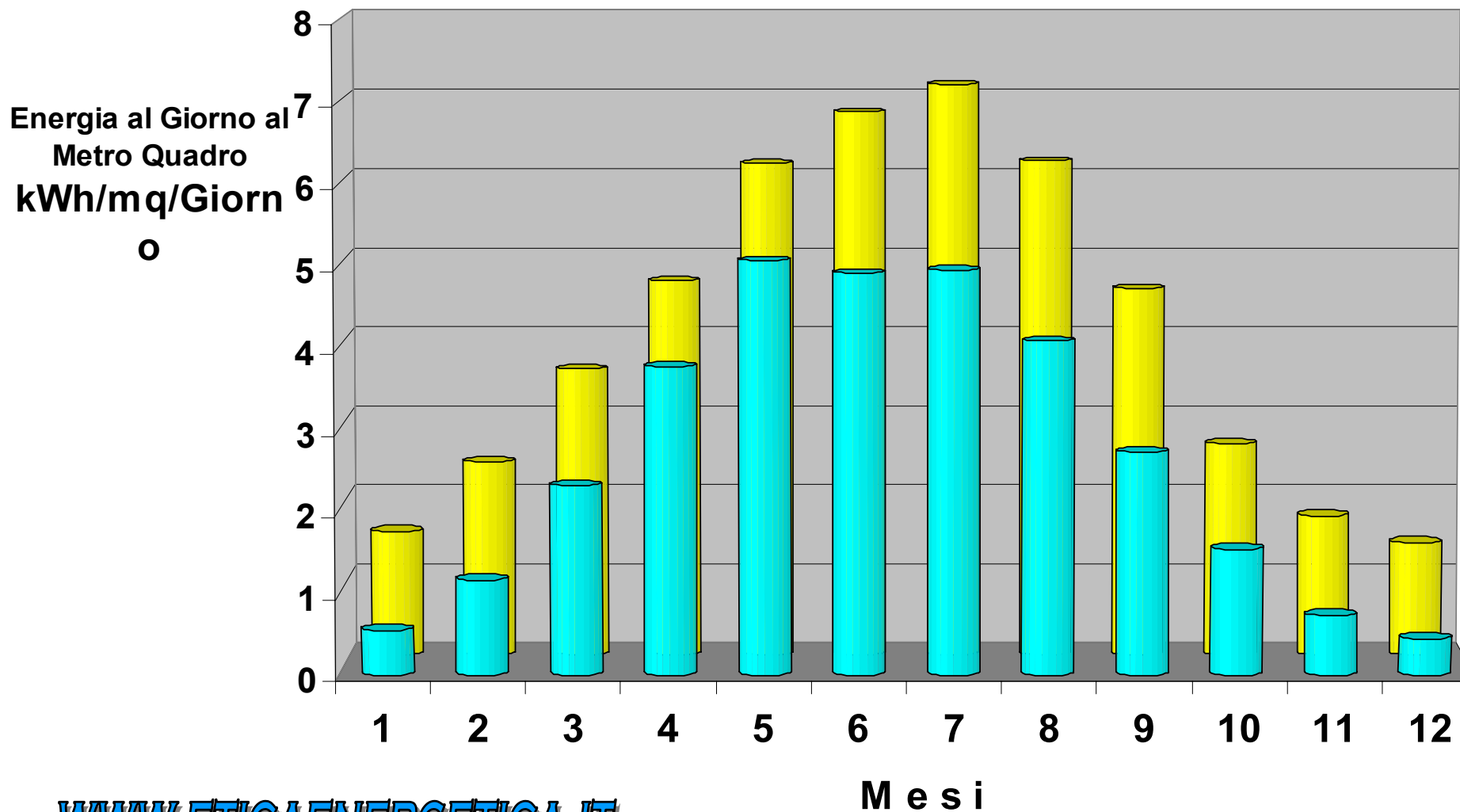
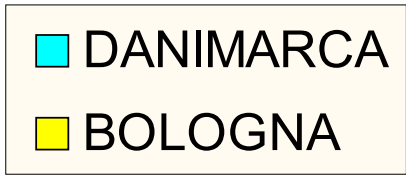
**PRODUCONO
CIRCA**

**8.500 MWh
/ Anno
pari a
890.000 mc di
METANO
RISPARMIATO!**

WWW.ETICAENERGETICA.IT

... E DA NOI ???

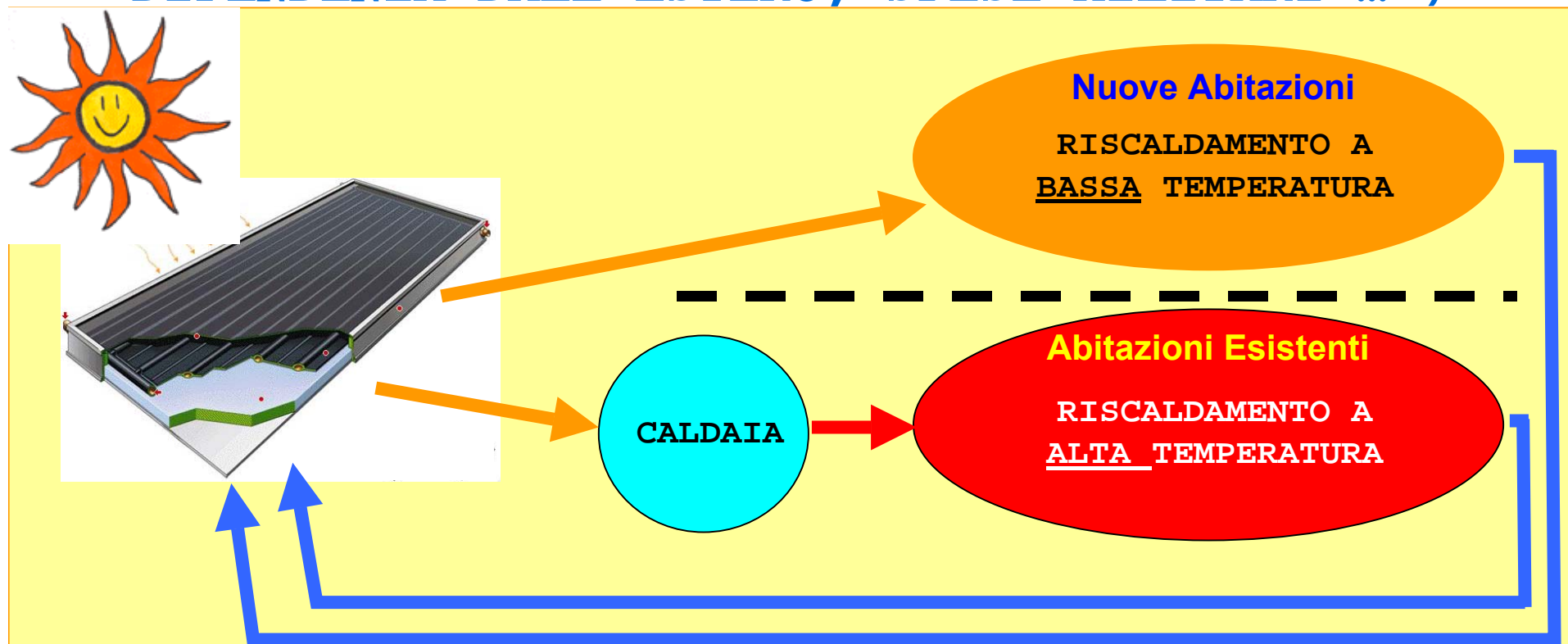
ENERGIA DAL SOLE



COME USARE L'ENERGIA TERMICA SOLARE ?

R I S P A R M I A N D O G A S

(E QUINDI SOLDI, INQUINAMENTO, SPESE SANITARIE, INFRASTRUTTURE "A TERMINE", DIPENDENZA DALL'ESTERO, SPESE MILITARI ...)



DUE CIRCUITI POSSIBILI

WWW.ETICAENERGETICA.IT