

27 billion KWh of heat are rejected by the industry into the environment every year - Circular economy can use this heat

Recovering only 20% of this heat will avoid 3 billion tons of CO2 emission every year.

PARIS, FRANCE, April 5, 2023

/EINPresswire.com/ -- According to the International Energy Agency (IEA), the total final consumption of thermal heat for industrial purposes is approximately 58 terawatt hours (TWh). Let us recall that approximately 50% of this thermal heat is not used and is rejected into the environment.

Also according to the (IEA), the average CO2 emission is approximately 0.5 tons of CO2 per MWh. Therefore, the total amount of CO2 produced would be approximately: $57,476 \text{ TWh} \times 1,000,000 \text{ MWh/TWh} \times 0.5 \text{ tons CO}_2/\text{MWh} = 28.74 \text{ billion tons of CO}_2$.

Being aware of the long term ahead for installing renewable technologies, what can we propose, as realistic actions, for effective short terms solutions?

We can quickly use, on the one hand, the heat in the circular economy and, on the other hand, avoid the generation of new pollution. Of course, the idea is not new. What is new is that a new tool, that has been searched for during over 150 years, is available today for extending the possibilities of the heat reuse. It is the continuous flash evaporation of heated water in a simple reservoir invented by Professor Dr. Alain Elayi. It is particularly interesting in situations where heat recovery is difficult to achieve or when we have low grade rejected heat. If handled properly, this new tool produces a huge economic impact. A case study in sea water desalination illustrate the new possibilities that this new tool offers.

The wasted heat reuse in sea water desalination can participate in solving the water crises. This new desalination technology is called MUDT (Multitasking Unconventional Desalination



Logo of Sciencetchnix

Technology). It has been patented by main industrial countries such as USA, China, India, European EPO, Australia, Japan... Even though MUDT is presented as a standalone optimized technology with its own breakthroughs, it is a part of the larger program of the wasted heat reuse. This is a link to the YouTube channel of MUDT :

<https://www.youtube.com/@mudt-Sciencetchnix>

About Prof. Dr. Alain Elayi: Renowned Physicist, Professor Dr. Alain Elayi worked with major institutes and nuclear companies such as EDF and Electrabel. He invented a method to recycle a part of the 70 billion KWh of heat rejected each day into the environment. He developed MUDT in order to use an ecofriendly and affordable desalination technology.

Personal website <http://alain-elayi.com>

About Sciencetchnix: Created in 1990 Sciencetchnix is a research company devoted to industrial applications. All the company's income was devoted to research, making it a non-profit organization in all but in his name until the invention of MUDT his last achievement.

<https://sciencetchnix.com>

Professor Dr. Alain Elayi

Sciencetchnix

+33 1 85 54 00 92

[email us here](#)

Visit us on social media:

[YouTube](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/626063763>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.