

1. Project name

WORLDWIDE URBAN INDUSTRIAL AND TRANSPORT DECARBONIZATION.

2. Explain your idea in a sentence

The simultaneous modification of circulation pumps and autoclave systems can be useful to all families and to the world industries for energy production and purification. The system can be installed on all mobile transport and work vehicles.

3. Explain your idea in a paragraph

By combining two identical pressurized hydroelectric plants, for hot water and cold water, we can produce energy for twenty-four hours a day of year, distributing hot water to the heating system and to the services, while with the other plant the same services are supplied with cold water with cold water, but without gas boilers and even solar panels, partially reducing the energy production only in the phase of water withdrawal consumption and for heating and cooling of the dwelling. The same system can be mounted on means of transport by running engines with electricity produced on board the vehicle.

4. Explain why your idea is innovative in the context and in the country where it will be implemented. Alternatively, if your idea is based on an existing concept, explain how your idea differs from this.

The pressurized hydropower exploits the physical principles of water and air differently because the autoclave tank is inserted in series in the flow of water, which is one-way. The water enters from the bottom of the pressurized tank and exits sideways while the air cushion statically exerts pressure on the surface of the water, without making it expand, since the circuit is designed so that the water that enters is perfectly equal to the one that goes out. In fact, it is much cheaper to circulate the incompressible water to keep the pressure constant that allow the expansion of the volume of air and then compress it again, absorbing energy. The entry of water takes place despite the low prevalence of the circulation pump, thanks to the pressure stability that takes place in the impeller by means of the second feed which, at the same time, recycles the water of the autoclave. Obviously, the same amount of water introduced in this way is expelled at the same time as the tank is already full. The water expulsion takes place under high pressure without discharging the pressure stabilized by the same water that enters. The expelled water passes through a multistage pump used as a turbine, discharging the pressure and returning through a circulation pump with the

dual feed separated back into the autoclave. In the meantime, the current generator coupled to the turbine produces the current necessary for the operation of the system and for all connected domestic systems.

5) Explain how your idea will allow young people to fully participate in a changing economy and how you would use a location-based approach.

This idea can have a huge impact worldwide large amount of clean energy that it can produce for beneficial environmental effects, the occupational development which concerns all human activities. The pumps, the turbines, the electromagnetism of the motors and connected power generators are the heart of all the world's sustainable plants of the future, free from fossil and nuclear fuels. Science has forgotten that the energy that turns a turbine is produced by the flow and pressure of the fluid that flows through it. This system described in detail <http://www.spawhe.eu/pressurized-domestic-hydraulic-energy-system/> was found to be contrary to the first principle of thermodynamics by European patent examiners. But the thermal dynamics in this patent store have nothing to do with it because the energy production takes place without any combustion but due to the compressed air pressure on the water and the special circulation allowed by the pumps with the double separate power supply up to the impeller. However, the major hypocrisy is due to the silence of world science, legislators and international judges who do not recognize copyright to inventors who develop these solutions of public utility autonomously without having the economic means to combat bureaucracy and trade of patents between public and private bodies and not even the money needed to pay taxes not due on intellectual property that should be separated from industrial property. The inventors must be free to invent according to their own conscience, without being blackmailed by the political, economic and multinational centers of power.

6) Explain how you will design and test the idea with potential users to develop it in a sustainable project over the next three years.

These projects can be tested immediately, existing already, pumps and turbines. The only thing that does not exist is the pumps with the double supply separate until impeller, which provisionally can be obtained by hand from existing pumps, simply having to change only the supply that must be divided into two or four distinctly separated flows, which must not be encountered before entering

in the impeller. But it must be the public bodies worldwide that favor these solutions if they want to protect the environment and lighten the balance of payments due to the importation of fuels and the construction of obsolete purification energy works. But this does not happen because the world's public research bodies have failed the energy solutions in the water systems, the patent offices have declared them contrary to the principles of energy conservation, therefore, together with the multinationals boycott these sustainable solutions. This solution has not found public and private interlocutors because there is a strong link between public bodies and multinationals that also includes the sale of patents of public bodies to individuals. All they are interested to hide mistakes. In reality, thermal and nuclear energy should not even exist because any comparison of economy and technical and environmental efficiency would be merciless to them, while the solar and wind energy are discontinuous bulky and with low yields. The world would be better with compressed hydropower in place of all current energies, as it also dissolves oxygen in the water.

7. Explain how you will grow your idea in the future so that it can reach more people or be replicated by other people across Europe.

I created the website <http://www.spawhe.eu> where all the industrial, environmental and energy solutions that are not realized by research institutions and multinationals are published. In many cases, as in this case, accused by the Italian and European patent offices of violating the principles of energy conservation. I believe that, in order to create sustainable development, it is necessary above all a correct and transparent scientific information. Which in the absence of economic means, can also be done by publishing logical reasoning based on the experience of those who have worked in industry and the environment for a lifetime. I think that especially young people must learn global scientific reasoning, which goes beyond single scientific and technological specializations. Today, above all, in hydraulic and hydroelectric plants, science makes correct hydraulic calculations, but realizes wrong plants not applying synergistically the basic principles legislated by the fathers of science.

8 What do you hope to learn from participating in the competition?

I hope to learn that in public bodies worldwide there are also people able to reason with their own heads. Because in eleven years of work as an inventor of sustainable depurative and energy solutions I have not even met one. I only collected silences and over three thousand six hundred silent contacts on LinkedIn.

