EHP Technologies Whitepaper

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Project Summary

Today's world is experiencing an unprecedented global energy crisis, with Europe at the center of it all. The Internal Energy Agency (IEA) estimated that the EU's coal consumption rose by 10% within the first six months of 2022 and is expected to increase with the arrival of winter. They further revealed that coal consumption would likely hit 8 billion tones, reversing a downward trend and equaling the all-time high consumption threshold set in 2013. With the rising energy crisis and subsequent increase in the use of coal and other non-clean energy sources, a more detrimental climate change impact looms on the horizon. According to the United Nations, human activities have caused approximately 1°C of global warming above pre-industrial levels; the sea levels rose by 20cm in 1880 and are projected to rise another 30-122cm by 2100. The stats also suggest that to limit global warming to 1.5°C; global net CO_2 emission must drop by 45% between 2010 to 2030 and near zero in 2050. The commission is targeting at least $26 Trillion in economic benefits in 2050, and it could potentially create 18 million jobs focusing on sustainable energy by 2030.

During the World Energy Outlook 2022, the major focus was on how the levers of technological change and innovation can be utilized to drive a secure transition towards a net zero emissions energy system. The solutions to the apparent energy problem facing us today are adopting renewable energy, financing innovative and revolutionary energy recovery technologies such as EHP technology, and planting trees, among other measures. Between 2010 and 2020, people without access to electricity shrank from 1.2 billion to 733 million. However, the world's global energy sources largely depend on fossil fuel, coal, oil, and gas, which are detrimental to us and our environment. The above sources reportedly account for over 75 percent of global greenhouse gas emissions and nearly 90 percent of all carbon dioxide emissions. Therefore, there is a need for cleaner energy or alternatives such as what EHP Technologies are proposing.

As a company, EHP Technologies heeded the call to sustainable energy and has deployed technological and financial solutions to solve the global energy crisis and mitigate the impact of climate change. Technologically, the company develops products that provide efficient heat transfer, waste heat recovery, decarbonisation, and heating and cooling systems using advanced engineering tools called EHP technologies to meet cleaner and more efficient energy demands. Economically, a financial model called the $EHP token, is deployed as a security token for holders to be part-owners of all EHP products. The token allows holders to enter into an investment contract with EHP Technologies.

Introduction

Energy is one of the essential needs of man as it powers our homes and industries. However, humans' risk themselves and the environment to produce and consume energy if proper measures are not put in place. The risks pose a real challenge in providing sustainable energy for everyone. Due to the importance of sustainable energy, the United Nations captured the need for clean, affordable energy in its sustainable development goal as number 7. The goal helps shape policies that provide guidelines and rules for using energy, such as natural gas and oil, which constitute more than 80% of the total energy production. Apart from setting guidelines for the various energy sources and usage, the commission also proffers several measures, such as planting trees, integrating heating and cooling, low carbon energy, and other heat recovery technologies like the EHP Technologies solutions.

At EHP Technologies, we are revolutionizing energy consumption with the development of EHP technology, the first and only known, fastest, most efficient, cost-effective, and simplest heat transfer system currently available in the world. EHP technology-powered products have become the first and only known 5th generation energy products in the world that have achieved up to 100% energy efficiency.

Problems and Solutions

Problems

To guarantee access to cleaner energy and ensure a healthier environment, we first identified the various problems that are precursors of the energy crisis and climate change. Specifically, most are energy-related or interconnected to the type of energy, usage, efficiency, and cost. We highlighted and will be solving the following problems;

- Increasing greenhouse gas emissions
- High carbon emission
- Cost of energy technologies
- Environmental pollution and discharges
- Energy wastes.

The EHP Technologies' Solutions

We believe that the energy crisis and climate changes are a result of human activities majorly, and require human efforts and ingenuity to solve them. A thorough understudy of the energy crisis and climate change challenges demands several approaches, including financial, social, and technological approaches. We will be adopting the following solutions;

Technological Solutions

The depletion of the ozone layer, greenhouse effects, energy crisis, and other climate changes result from cumulative human activities. Most of these activities are technological advancements hoping to solve human problems. To reduce such adverse effects, we need technical efforts to combat them.

A technological solution to the energy crisis and climate change refers to those technical measures taken to reduce CO_2 emission, the effects of non-renewable energy, and the heating and cooling of the environment. So far, various technological solutions have been adopted to solve the rising energy crisis and climate change. They include but are not limited to carbon capture, climate repair, utilization, storage, and recovery technologies like the novel EHP technologies.

We leverage various technologies, including EHP, to decarbonize the environment, achieve greener energy and increase energy efficiency in home and industrial applications.

Economic Strategies

Fossil fuel, coal, and other non-clean energy sources are the primary energy sources because of their availability. However, the United Nations has reported that they largely account for over 75% and 90% of the global greenhouse gas emissions and all carbon dioxide emissions, respectively. The stats so far suggest that those primary energy sources have more disadvantages than advantages to humans, hence the need for better alternatives.

The alternatives, therefore, are adopting cleaner energy sources or integrating heating and cooling recovery devices such as including EHP technologies devices. However, such innovation requires adequate funding to support research and development. To proffer a solution, we have introduced a net zero carbon and energy efficient technology that helps to save energy discharge to the environment and a utility token that helps users fund energy efficiency projects. We developed a technical device and a cryptographic token that allows users to crowdfund and purchase a heating and cooling system and energy-efficient projects.

Market Analysis

Market Overview

We are proffering solutions to the world energy crisis and climate change. Several global events, including the recent worldwide pandemic and Russian-Ukraine conflict, have exacerbated the global energy crisis. The situation leads to a soaring energy costs and an increase in unclean energy consumption. According to Institute for New Economic Thinking (INET), without intervention, total household consumer expenditure on energy in the UK is set to exceed defense and education expenditures put together. They reported that the total household consumer expenditure on energy is rising from £64bn in 2021 to around £200bn in 2022, which in turn has caused inflation in the UK to hit double digits and the cost of living to almost 20% increase.

The rising energy cost causes inflation and an increase in the cost of living, and it harms the environment since most of the energy sources are fossil, oil, and coal. To support the claim, preliminary data from the EU Member States reported that greenhouse gas emissions rose by 5% in 2021 from 2020, and both primary and final energy consumption increased to 6% in 2021 from 5% in 2020. Therefore, to ensure environmentally-friendly energy production and consumption, critical actions need to put ambitious emission reduction plans to meet UN climate targets. Some of these are short-term measures, while others are long terms.

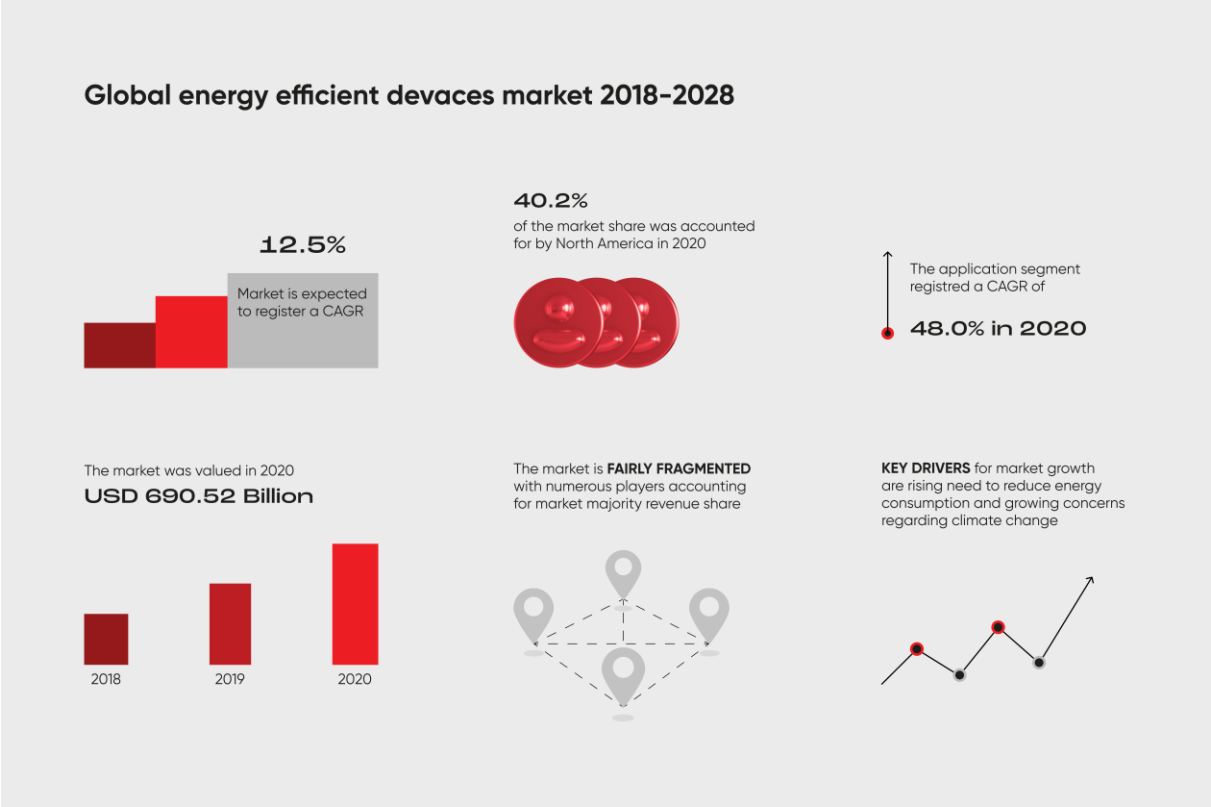
The short-term measures are what our EHP Technology systems are proposing; cumulatively, they will provide a long-term solution. For instance, energy production platforms and consumption terminals should implement heating and cooling recovery, energy-efficient devices, and energy-saving systems. According to Hans Bruyninckx, EEA Executive Director,

"Saving energy and strengthening renewable energy sources is critical to tackle the immediate energy crisis and achieve climate neutrality."

Energy Saving Market Share

Energy saving refers to reducing the amount of energy required for certain activities. It reflects the efficiency of the energy produced and helps to reduce gas emissions such as CO_2 and the corresponding greenhouse effect. There are devices such as energy monitors, led lighting, EHP Technologies' heating and cooling systems, etc.

According to Emergen Research, the global energy efficiency market is projected to reach $1,771 billion at a compound annual growth rate (CAGR) of 12.5% by 2028 from the $690 billion value in 2020.



Source; Emergen Research

Additionally, the data from the UN Environmental Program, The Energy Efficiency Market Report 2014 (EEMR 2014), estimates investment in energy efficiency markets worldwide in 2012 between USD 310 billion and USD 360 billion. From the data provided, investment in energy efficiency was larger than supply-side investment in renewable electricity or in coal, oil, and gas electricity generation and around half the size of upstream oil and gas investment. This data affirms that the energy-saving market is growing, and significant investments are ongoing.

EHP Technologies Market Segments

The various energy management or efficiency technologies come with varying ratings or capacities. For instance, EHP technologies record over 60% energy saving and efficiency. The technology boasts four energy goals in the use of EHP. They include; energy saving, heating and cooling recovery, decarbonisation, and wastewater recovery.

Energy Saving

With a holistic view, replacing existing comfort heating and cooling devices with systems using EHP technology may provide up to 67%-100% fossil fuel savings and corresponding cost reductions, by replacing fossil fuels with low-quality renewables and waste heat, which may not be utilized by conventional systems and equipment economically and rationally. This means a unique and very promising, sustainable opportunity for decarbonisation against global warming. For example, radiators with EHP technology can operate at temperatures as low as 35°C, efficiently. Such ultra-low supply temperatures comprise a large portion of globally available renewable and waste energy sources, which are not utilized. The European Roadmap for decarbonisation includes targets regarding the fifth-generation district energy systems to utilize such low-quality energy sources. As of today, these EHP-powered radiators are the only heating equipment to respond to such an ambitious goal of the EU.EHP-compatible devices and markets include;

Panel Radiators

The global Panel Radiator market size was valued at $5.1 billion in 2022 and is expected to progress at a CAGR of 7.5% between 2022 - 2029, reaching $8.46 billion annually by the end of 2029.

We estimated that the company will capture5.04% of this market with EHP technology products in 2029. Assuming that EHP Technologies will have 5.04% of this market in 2029, it will save 316,535,918.625 kg of CO_2 annually and generate over $400,000,000.

Boilers

The global Residential Boiler market was valued at over $38 billion in 2022 and is expected to progress at a CAGR of 5.12% between 2022-2029, reaching $53.9 billion annually.

We project that the company will capture4.17% of this market with EHP technology products in 2029. If EHP technology has 4.17% of this market in 2029, it will save 1,531,192,135.95 kg of CO_2 emissions annually while generating approximately $2.25 billion in revenue.

Electric Heaters

EHP Technologies will reduce the production costs of electric heaters by up to 53% with the same efficiency as conventional electric heaters. This means that systems with the same production cost as traditional systems, including EHP, will have up to 53% more efficiency.

The global Electric Heaters market was valued at $8.57 billion in 2022 and is expected to progress at a CAGR of 5.17% between 2022 - 2029, reaching $12.2 billion annually.

With the use of EHP Technologies' products, we project that the company will capture1.56% of this market in 2029. Assuming EHP Technology has 1.56% of this market in 2029, it will save 304,848,105.12 kg of CO_2 per kWh annually with 16 hours of use per day and, at the same time, generate approximately $200,000,000 in revenue.

Underfloor Heating Systems

The global Underfloor Heating market was valued at over $5.5 billion in 2022 and is expected to progress at a CAGR of 6.42% between 2022-2029, reaching $8.5 billion annually.

With EHP Technologies' products, it is estimated that the company will capture5.22% of this market in 2029. if EHP Technologies has 5.22% of this market in 2029, it will save 15,190,847,349.308 kWh of annual energy while also earning over $400 million.

Solar PVT (PHOTO VOLTAIC THERMAL) Systems

The global PV Panel market was valued at over $159.84 billion in 2022 and is expected to progress at a CAGR of 5.1% between 2022-2029, reaching $226.47 billion annually.

With EHP Technologies' products, we estimate the company will capture5.49% ($12.4 billion) of this market in 2029. If EHP Technologies has 5.49% of this market in 2029, the electricity production of these panels will increase by up to 28% and 7,849,719,516.76 kWh more electricity will be produced annually.

Parabolic Trough Collectors

The global concentrated solar market size is set at $4.18 billion annually in 2022 and is expected to grow at a CAGR of 8,21% from 2022 to 2029, reaching $7.26 billion annually in 2029.

We estimate that the company will capture4.35% ($300 million) of this market with EHP Technologies' products in 2029. If EHP Technologies has 4,35% of this market in 2029, the electricity production of these panels will increase by up to 30%. And 44,173,168.47 kWh more electricity will be produced annually.

Heat Pumps

The global Heat Pump market was valued at over $72.4 billion in 2022 and is expected to progress at a CAGR of 9.52% between 2022-2029, reaching $136.8 billion annually.

With EHP Technologies' products, it is estimated that the company will capture3.45% ($4.7 billion) of this market in 2029. Heat pumps will provide 1,856,376,000 kWh of energy savings per year.

By coupling low-temperature heating or high-temperature sensible cooling panels (Chilled beams) using EHP Technologies, the performance coefficients of heat pumps will extensively increase by efficiently integrating low-temperature renewable and waste energy sources with the low-energy (low-temperature heating or high-temperature cooling) systems and equipment with EHP Technology. The technology also has the capacity to eliminate the need for heat pumps, because it is possible to perfectly match heating equipment with low-temperature energy sources. Even more importantly, refrigerants used in heat pumps-leak and harm the Ozone layer. Although recent refrigerants are claimed to have zero ozone-depletion potential, their global-warming potential are relatively high. EHP Technologies is expected to reduce this critical issue by minimizing or eliminating the use of heat pumps. Although this seems to contradict the total electrification targets of the EU, it will reduce the electricity demand and will have a better decarbonisation effect.

Chilled Beams

The global Chilled Beam market was valued at over $374.8 billion in 2022 and is expected to progress at a CAGR of 2.03% between 2022-2029, reaching $431.5 billion annually.

With EHP Technologies' products, we project that EHP Technology will capture 4.89% ($21 billion) of this market in 2029.

If EHP Technologies has 4.89% of this market in 2029;

- With the use of EHP Technologies' products, it will save 56,394,383 kWh annually.
- EHP Technologies' products will save 1,353,465.19 kg of CO_2 emissions annually.

Roof Heating Systems

The global snow melting market was valued at $6.14 billion in 2022 and is expected to progress at a CAGR of 7.51% between 2022-2029, reaching $10.19 billion annually.

With EHP Technologies' products, it is estimated that the company will capture 5.58% (over $500 million) of this market in 2029.

If EHP Technology has a 5.58% of this market in 2029;

- With the use of EHP Technologies products, it will save 4.390.765.871,81 kg of CO_2 per kWh annually with 16 hours of use per day.
- With the use of EHP Technologies products, we will save 182,948,577,991.67 kWh per year.

Rooftop Air Conditioning Systems

The global packaged air conditioning system market size is set at $894.28 Million per year in 2022 and is expected to grow at a CAGR of 5.89% from 2022 to 2029 to reach $1,335.21 Million per year in 2029.

With the use of EHP Technologies' products, it is estimated that the company will capture 5.58% of this market in 2029.

If EHP Technology has a 5.58% of this market in 2029;

- With the use of EHP Technologies' products, it will save 1,307,563,411.734 kWh of annual energy.
- With the use of EHP Technologies' products, it will save 31.381.521,88 kg of CO_2 emissions annually.

Road Heating Systems

The worldwide Road Heating System Market, worth $5.71 billion annually in 2022, is expected to grow at a CAGR of 4.84% over the 2022-2029 period, reaching $7.95 billion annually by the end of 2029.

With EHP Technologies' products, it is estimated that the company will capture3.75% ($300 million) of this market in 2029.

If EHP Technology has a 3.75% of this market in 2029;

- With the use of EHP Technologies' products, it will save 573,185,569.88 kWh annually.
- With the use of EHP Technologies' products, it will save 13,756,453.67 kg of CO_2 emissions annually.

Greenhouse Heating System

The worldwide Greenhouse Heating System Market, worth $14.34 million annually in 2022, is expected to grow at a CAGR of 5,72% over the 2022-2029 period, reaching $21.16 million annually by the end of 2029. With the use of EHP technology products, it is estimated that the company will capture 4.05% of this market in 2029.

If EHP Technologies has a 4.05% of this market in 2029;

- With the use of EHP Technologies' products, it will save 16,357,885.08 kWh annually.

- With the use of EHP Technologies' products, it will save 392.589,24 kgCO_2 emissions annually.

Renewable Energy

The global renewable energy market was valued at $1030.95 billion in 2022 and is projected to grow at a CAGR of 8.6% from 2022 to 2030, reaching $1998.03 billion per year.

With EHP Technologies' products, it is estimated that the company will capture 3.06% of this market in 2029.

If EHP Technologies has a3.06% share of this market in 2029;

- With the use of EHP Technologies' products, we estimate to save 15,64 billion kWh of energy per year.
- EHP Technologies products can save 375 million tons of CO_2 per year.

District Heating

The district heating market size was US$ 173.97 billion annually in 2022. The market is expected to grow to US$270.35 billion per year in 2029 at a CAGR of 5.8% over the period 2022-2029.

The global impact of COVID-19 has been unprecedented and staggering, with the district heating industry witnessing a slow demand shock in all regions amid the pandemic. According to our analysis, this market exhibited stagnant growth of 0.3% in 2020 compared to the average annual growth in the 2017-2019 period. The spike in CAGR can be attributed to the growth of this market and its demand returning to pre-pandemic levels after the pandemic was over.

With EHP Technologies and EHP-based products, this industry will not need fossil fuels. The company is estimated to capture 4.62% of this market in 2029.

If EHP Technologies has a 2.91% of this market in 2029;

- With the use of EHP Technologies' products, it will save 45 million kWh of energy per day and 16.44 billion kWh of energy per year.
- With the use of EHP Technologies' products, it will save 11,736 tons of CO2 per day and 4.29 million tons of CO_2 per year.

District Cooling

District cooling uses a thermal storage system that reduces cooling energy consumption by 50%. Regarding capacity design and installation, these systems are flexible and can store up to 30% of potential output by keeping chilled water in tanks. They can save up to 30% to 45% more energy than traditional air-cooled and water-cooled air conditioning systems. Therefore, increasing electrical energy

demand and characteristics are expected to contribute to the growth of the global district cooling market during the forecast period.

The global impact of COVID-19 has been unprecedented and shocking for the district cooling market; district cooling systems witnessed a negative demand shock in all regions amid the pandemic. This market showed stagnant growth of 5.6% in 2022. However, the market is expected to grow from US$117 billion in 2021 to US$153 billion in 2029 at a CAGR of 4% over 2022-2029. The company projects it will capture2.91% of this market by 2029.

If EHP Technologies has a 2.91% of this market in 2029;

- With the use of EHP Technologies' products, 60.6 million kWh of energy savings per day and 22,2 billion kWh of energy savings per year will be achieved.
- EHP Technologies' products will also save 15654.6 tons of CO_2 per day and 5.79 million tons of CO_2 annually.

Geothermal Energy

Electricity demand is growing worldwide, and governments rely on renewable energy sources to meet their electricity demand. The distribution of this energy form, also at low temperatures with EHP Technology, is increasing widely around the world. Geothermal energy creates growth opportunities in the market because it is reliable, uninterrupted, and cost-effective. As the demand for electricity increases worldwide, concerns about electrical safety are also increasing. Pollution is immensely growing worldwide, and people are looking for healthier and cheaper alternative energy sources. Electricity production is not the only option with geothermal energy, which requires well-head temperatures above 100°C. The waste heat from electricity production may be recovered and low-enthalpy (below 100°C) geothermal wells may be directly used in low-temperature (Fifth-Generation) district energy systems in economically and environment-friendly manners, thanks to various EHP Technologies that may be embodied to the entire geothermal energy systems.

This type of energy is one of the clean energy sources as the energy found on the earth's surface is used for electricity generation and other uses. The demand for district heating and ground source heating and cooling systems is increasing rapidly worldwide. Installing this type of energy helps reduce greenhouse gas emissions, enabling the market to grow in 2022-2029.

EHP Technology will reduce the costs of geothermal heating systems by up to 58%, with the same efficiency as conventional heating systems. This means that EHP will be up to 58% more efficient than geothermal heating systems with the exact production cost as traditional systems or will save almost the same amount of energy.

The geothermal energy market size was valued at US$52.87 billion in 2022, and the market is expected to grow to US$83.27 billion in 2029, with a CAGR of 5.9%. This

market exhibited stagnant growth of 0,39% in 2022. The spike in CAGR can be attributed to the demand and growth of this market, returning to pre-pandemic levels once the pandemic is over. With the use of EHP Technologies' products, we can save 2.09 billion kWh of energy annually as well as 50.1 million tons of CO_2 per year.

Waste Heat Recovery

With EHP Technologies, up to 61% of Waste Heat, which causes a significant energy loss, is recycled to the systems and brings carbon emissions closer to zero. Only waste heat above 100°C can be economically and energy-rationally (Quality of energy) recovered with current technologies. This means being able to use up to 30% more of the total waste heat.

Waste Heat Market with a Temperature Above 100°C

The rapid population growth, increase in the rate of industrialization, and rising technological advancements increase the need for energy day by day. On the other hand, limited fossil energy resources are being depleted daily. It is assumed that approximately one-fourth of the energy consumption of many industrial facilities worldwide is lost with waste gasses thrown into the atmosphere. Recovery of this enormous amount of loss becomes possible with recycling systems. Recycling systems reduce the share of industrial facilities for their energy needs, reduce the damage to the environment and ensure the most efficient use of energy.

For example, in an industrial boiler, the efficiency is around 75%, and energy losses (pipe losses, radiation and convection losses, hot flue gas losses) are about 25%. About 20% of the energy produced in a conventional steam boiler separates from the system as waste heat and flue gases. The high rate clearly shows the importance of heat recovery systems for flue gases.

Waste heat generated from industrial production is about 150.35 TWh per year. Thanks to EHP Technology, it is possible to reduce this colossal waste heat rate. EHP Technology, with its very cost-effective model, will both eliminate the high initial costs of the systems used in waste heat recovery and will be able to recover the waste heat much more efficiently than current conventional systems. The potential heat recovery rate for large power plants is at most 20 percent, which otherwise, thermal wastes cost hundreds of millions of dollars. EHP can recover up to 48% of waste heat for less than 15% of conventional system costs.

The global Waste Heat Recovery market was valued at US$58.29 billion in 2022 and is expected to grow at a CAGR of 8.8% from 2022 to 2029, reaching US$107 billion. With EHP Technologies' products, the company projects that it will capture5.58% of the market share by 2029.

If EHP Technology captures5.58% of this market in 2029, products with EHP technology products may save 13.7 billion kWh of energy annually and 328,815.45 tons of CO_2 annually.

Waste Heat Market with a Temperature Below 100°C

Only waste heat above 100°C can be recovered with current technologies. This means being able to use up to 30% of the total waste heat. There is a significant waste heat loss of 70%. The lost 70% share of the waste heat market is expected to grow at a CAGR of 8.8% from 2022 to 2029 and reach $356.6 billion annually. With EHP Technology, we will regain this waste heat loss to our world and also capture up to 100% of the market by 2029.

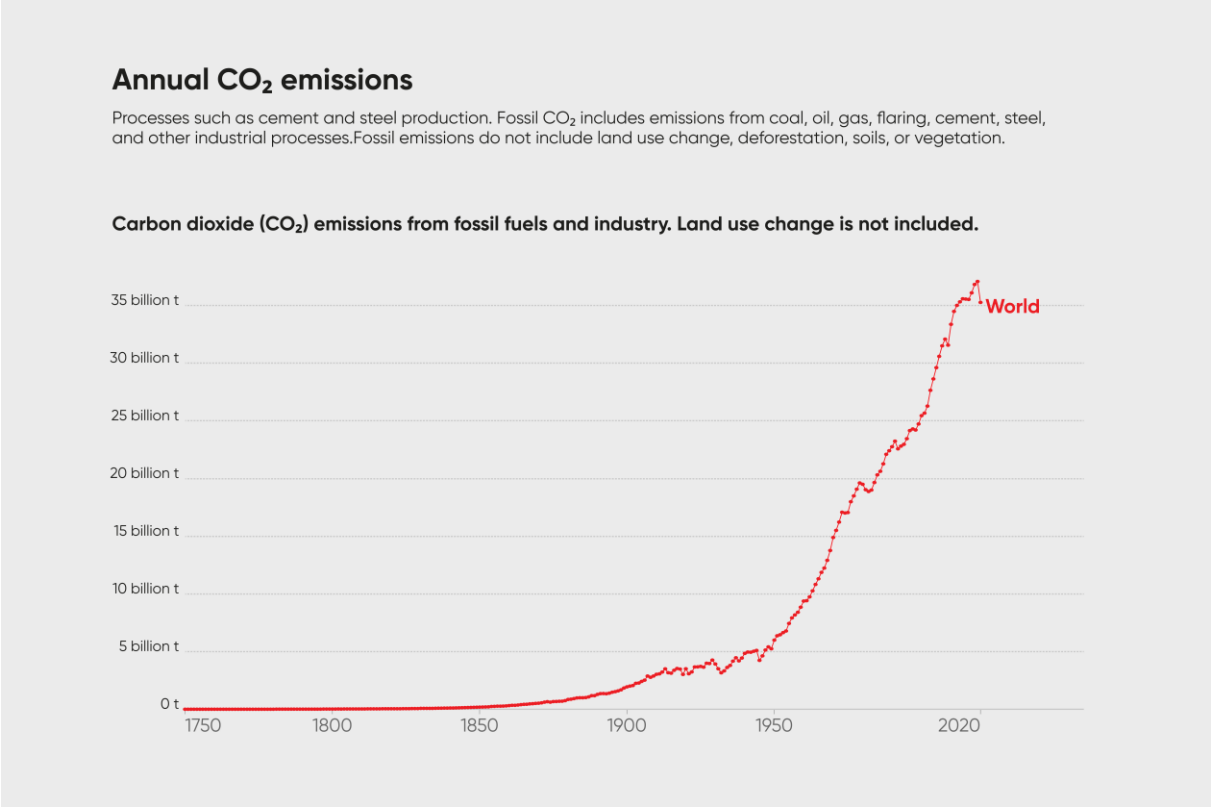
If EHP Technology has 100% of this market in 2029 and uses EHP Technologies' products, we will save 106.56 billion kWh of energy and 2,557,453.5 tons of CO_2 annually.

Energy Decarbonisation

Carbon emission is the emission of carbon dioxide into the atmosphere, which is formed from the combustion of carbon-rich fossil fuels (hydrocarbons: oil, natural gas, coal, etc.). This gas comes out as a result of individual and institutional uses. Such emissions pollute the air and make it harmful to both the environment and humans. Although the air pollution and global warming caused by carbon dioxide emissions didn't receive much attention initially, it has recently started to attract critical attention, with the extent of the pollution and the CO_2 content of the atmosphere which has already reached alarming levels. As of January 19, 2023 the atmospheric concentration in the atmosphere was 419.07 parts per million (ppm) and the global average temperature has already risen today by 1.1°C compared to 1850-1900 pre-industrial levels (approximately 250 ppm only). IPCC (Inter Governmental Panel for Climate Change) targets to limit this increase to 1.5°C, which is the threshold for drastic climate changes, droughts, floods, etc. that we have already started to observe. As a result of the global warming, several endangered plant and animal species face the immediate danger of extinction. The Paris Agreement goals involve to reduce the atmospheric CO_2 concentration such that the global warming will be limited to 1.5°C, which seems to be unreachable by today's technology and conventional equipment. We need innovative equipment, systems, and critical thinking that energy has also a quality as well as quantity. EHP Technology is the first technology that recognizes and responds to this fact such that all renewable and waste energy resources may be mobilized for decarbonisation with almost up to 100% utilization efficiency. Today low-quality energy sources are not used and wasted. In fact, low-quality energy sources comprise almost 70% of the entire energy sources. EHP technology can harness these energy sources efficiently and rationally as well as economically so that decarbonisation goals are satisfied on time.

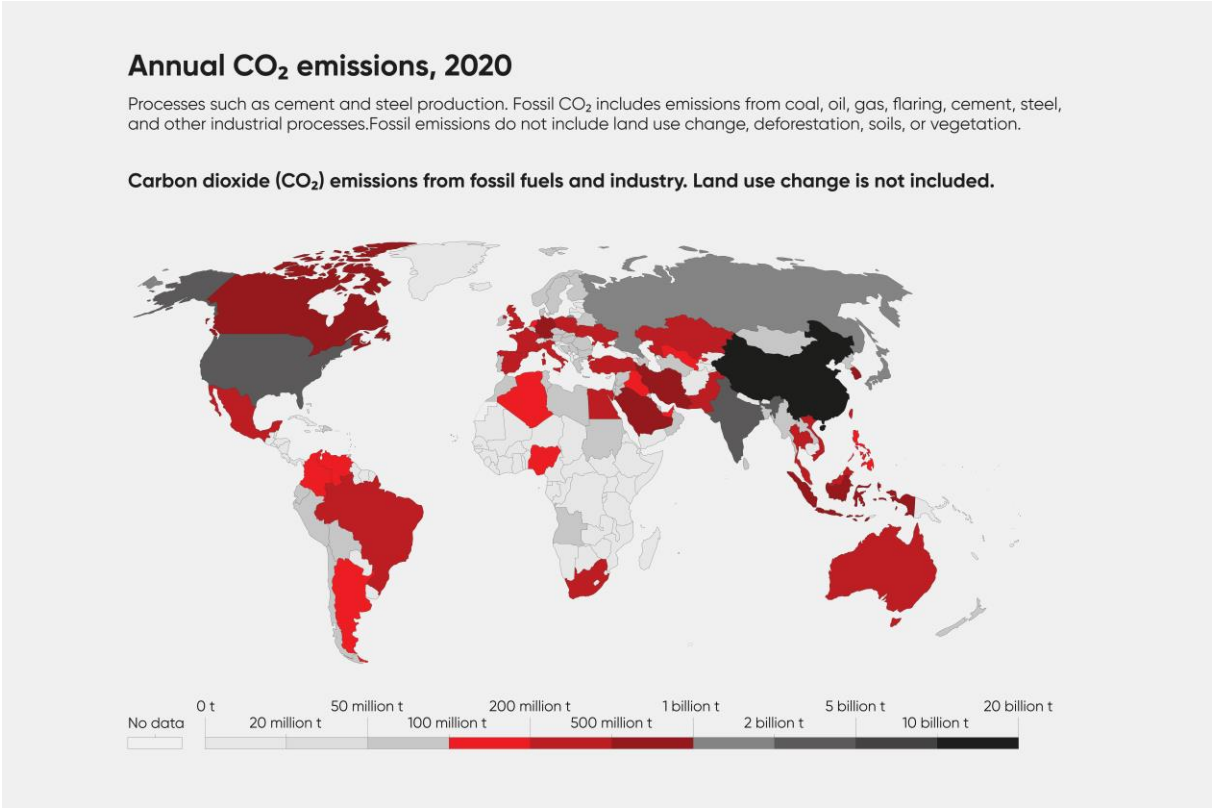
To prevent this when our world is in such great danger, the Paris Agreement was signed in 2015 on reducing, adapting and financing climate change within the scope of the United Nations Framework Convention on Climate Change (UNFCCC). The agreement entered into force in 2016.

To keep global warming to not more than 1.5°C – as called for in the Paris Agreement – emissions need to be reduced by 45% by 2030 and reach **net zero** by 2050. Emissions reduction does not mean the reduction in atmospheric concentration.



Source: Our World in Data based on the Global Carbon Project (2022)

We can see from the graph above that emissions were very low before the Industrial Revolution. The increase in emissions was still relatively slow until the mid-20th century. In 1950, 6 billion tons of CO_2 were emitted into the atmosphere. By 1990, this had almost quadrupled to over 22 billion tons. Emissions continued to increase rapidly; now, over 34 billion tons of CO_2 are released annually.



Source: Our World in Data based on the Global Carbon Project (2022)

According to the predictions of the International Energy Agency (IEA), the demand for fossil fuels will keep increasing until 2050, and accordingly, a 130% increase in carbon emissions will occur.

EHP Technology has become the first and only available technology in the world that can comply with the Paris Air Conditioning Agreement, thanks to its ability to integrate up to 100% of all qualities and quantities of Renewable Energy Systems including low-temperature waste heat EHP Technology contributes to waste heat recovery in terms of energy and cost and helps us save our planet by ensuring zero carbon emissions. With the adoption and utilization of EHP technology products, we predict that about 58.9% of the world's CO_2 emissions may be reduced by 2027.

Organic Rankine Cycle

The Organic Rankine Cycle (ORC) follows similar principles as the ancient steam Rankine bottoming cycles utilized in most thermal power plants to supply electricity. However, it uses organic fluid rather than water. The chances of picking out the most effective operating fluid counting on the obtainable heat supply and, therefore, the plant size ends up in multiple advantages: more efficient turbo machinery, limited vacuum at the condenser, and higher performance compared to both steam Rankine cycles and gas cycles, especially for heat sources lower than 400°C and power output lower than 20 MW.

Working fluids are often selected from an extended list of candidates, as well as hydrocarbons, hydrofluorocarbons, siloxanes, and also EHP of those elements. These distinctive characteristics create ORC, the foremost reliable possibility for unconventional heat sources like hot energy brines, biomass combustion, waste heat recovery from industrial processes, and thermal star applications.

The organic Rankine cycle (ORC) represents an improved version of the Rankine cycle and depends on an organic fluid with high molecular mass. Designed to get thermal and electrical power, ORC systems use different energy sources like standard fuels and renewable options like solar power, biomass, and geothermal energy. These systems can also exploit waste heat from gas turbines, incinerators, and industrial processes. Growth within the world market is ready to be driven by fast industrialization and climate change considerations that square measure prompting industries to shift off from ancient power towards clean energy generation.

The rise in the adoption of renewable energy in countries is resulting in the emergence of supportive regulations and the provision of economic incentives for the readying of renewable energy. Financial incentives like feed-in-tariff, subsidies, and tax edges are a number of the essential tools used worldwide to draw in investment within the renewable energy sector. These factors are expected to propel the organic temperature unit cycle (ORC) market expansion. Since the EHP Technology has wide operating temperatures, we can apply it in organic Rankine cycle systems under any desired conditions. It will be less costly, faster, and more functional than other working fluids. This way, more efficient results will be obtained.

The global organic Rankine cycle market size was valued at $415.12 million in 2022 and is projected to reach $1.07 billion by 2029, exhibiting a CAGR of 3.3% during the forecast period. With the use of EHP Technology products, it will save 26.8 million kWh of energy and 0.65 million CO_2 annually.

Electronic Card Cooling

Electronic cards emit heat when a current passes through them while working. The amount of heat depends on power, device features, and circuit design. The heat generated quickly increases the internal temperature of the equipment. If the heat is released over time, the device will continue to heat up, making it easier for the electronic cards to reach their target performance levels. If overheating occurs, the device will malfunction. Reliability studies have revealed that 50% of electronic system failures are due to high-temperature conditions. Critical temperatures must be avoided, and components must be operated within the prescribed temperature range. It is vital to cool the electronic board so that the device does not cause malfunction and the reliability of the electronic equipment is not compromised. There are several techniques used to remove heat from components and electronic boards. Common mechanisms include heat sinks, cooling fans, heat pipes, and thick copper. Oftentimes, circuits that produce more heat require more than one technology.

Our EHP Technology card cooling systems are the simplest, most cost-effective, most practical, and best solution for cooling electronic cards. It offers practical solutions to spread and remove the heat collected at a single point, which is one of the biggest heat problems of electronic cards. EHP Technology will reduce the costs of electronic card cooling systems by up to 67% with the same efficiency as conventional electronic card cooling systems.

Radar Cooling

Today, advanced military systems such as radar demand more capabilities and performance. The ever-increasing thermal load and heat flux of such systems pushes the practical limits of conventional air-based and single-phase liquid cooling solutions. In addition to thermal performance, size, weight and power constraints also lead to more advanced cooling methods.

In the 70s, radar systems had low heat flux and could often be cooled by blowing air over heated surfaces. By the 90s, it became clear that heat flows and air cooling were no longer sufficient, leading people to turn to closed-circuit single-phase cooling systems. Although this was more complex and expensive, single-phase cooling systems had a much greater capacity to remove waste heat than air cooling.

New-generation radar systems have not only started to exceed the cooling capacity of single-phase liquid cooling solutions but have also begun to make two-phase liquid cooling solutions insufficient. These cooling methods are insufficient as they cause undesirable heat concentrations and potential overheating. The radar panel must be cooled evenly to avoid degradation of the radar signal and excessive mechanical load on the connections. EHP Technology plays an active role in radar cooling as the world's first and only known three-phase heat transfer technology.

The global military radar market size was US$13.93 billion in 2022. The market is expected to grow from US$14.41 billion in 2021 to US$22.06 billion in 2029 at a CAGR of 6.27%.

Aircraft Electronics Cooling

Thermal management is a primary design concern for military and commercial aircraft electronics. Increasing power levels and simultaneous miniaturization of electronic devices cause difficulties, especially in aircraft electronics applications. Aircraft systems are being loaded with more functionality, and electronics are forced to shrink to allow more devices with high processing and connection speeds in Avionic Electronics Modules (AEM). In most of today's AEMs, thermal management consists of transmitting heat away from the device through a thermal network comprised of a solder layer, multilayer circuit board, board rails, and a compact heat exchanger.

EHP Technology promises the best to fulfill the above-mentioned essential requirements for aircraft electronics. It can provide adequate cooling for the AEM in environments with adverse forces such as gravity, vibrations etc.

The global aircraft electronics market was valued at $48.00 billion in 2022 and is projected to reach $75.81 billion by 2029, exhibiting a CAGR of 9.25% during the forecast period.

Satellite Cooling

A space environment is a place that pushes materials and designs to their limits. In electronic circuits, some of the currents are converted into heat energy, thereby causing the resistance in the circuit to increase. For regular operation, the system must be kept at the same temperature. For satellites in space, the sun-facing sides of the satellites are very hot, while the remaining faces are very cold. Satellites use radiative cooling to maintain thermal equilibrium at a desired temperature.

The thermal control system in satellites is divided into two central systems as a passive and active control. While a passive thermal control system is sufficient for most micro and small satellites, active control is required for larger satellites due to their higher power consumption. Conventional satellites create problems in terms of volume, weight, and cost. Every system to be used in satellite technologies is expected to be lightweight. Getting into space is challenging; one kilogram needs 32,900 kJ of energy to reach a low orbit. Since the cost of reaching this energy is very high, each kilogram is of great importance.

Cost is of great importance in military, commercial and scientific satellite studies. Especially in military applications, it is possible to achieve the performance obtained with heavy and large satellite designs, which are preferred in countries where budget opportunities are huge, with smaller satellites. EHP Technology provides the cheapest, most suitable, and lightest heat transfer system to be used in satellites because it occupies a much smaller volume with the same efficiency as other heating-cooling systems.

The global small satellite market size was $4.08 billion in 2022 and is projected to grow from $4.70 billion in 2021 to $10.75 billion in 2029 at a CAGR of 12.55% in the forecast period 2021-2028. On the other hand, the global medium and large satellite market size were $8.22 billion in 2020. The market is projected to grow from $11.21 billion in 2021 to $14.98 billion in 2029 at a CAGR of 4.2%.

Personnel Heating

We, humans, lack a thick coat of fur or a natural adaptation to cold in the form of significant subcutaneous fat insulation. The principal physiological protection of man against low environmental temperature is to prevent heat loss from the skin through the narrowing (vasoconstriction) of blood vessels in the body and to increase metabolic heat production through thermogenesis (a process in which the body produces heat). These mechanisms generally maintain body temperature

during nude exposure to moderately low temperatures (15°C to 28°C). Exposure to temperatures below these is uncomfortable, and body temperature begins to drop when exposed to temperatures near or below zero. Protection against this temperature is only clothing or warm shelters. However, clothing may also be inadequate when exposed to very low temperatures for a long time. Considering that military personnel work in harsh conditions in nature, extra precautions are needed.

Personnel heating systems with EHP Technology eliminate heating problems. The technology works with a single button when needed and puts an end to the negative effects of cold. It provides active heating for up to 96 hours with a load of only 1.5 kilograms while helping to eliminate the main cold-related problems such as colds, frostbite and hypothermia.

The global personnel heating market size was $1.4 billion in 2020, and the market is projected to grow from $1.7 billion in 2022 to $2.9 billion in 2029 at a CAGR of 7.9%.

About EHP Technologies

EHP Technologies, founded in 2009 and based in Switzerland, is a technology, R&D company poised to revolutionize heat transfer, energy consumption, waste heat recovery, and mitigate the risk of climate change. The company designs and analyses energy systems using advanced engineering tools and approaches, including heat transfer, waste heat recovery, decarbonisation, heating, and cooling devices.

The company is set to lead the next climate change solution using cutting-edge technologies, ergonomics, and best-practice business models. Through novel ideas, EHP Technologies is leading the revolution to end the world's energy crisis and carbon emission problem.

The company focuses on the following to achieve its dream;

- Waste heat recovery
- Zero carbon emission
- Heating and cooling energy efficiency
- Energy saving
- Cleaner fossil and water waste.

Based on R&D, EHP Technologies has been developing thermal systems, Waste Heat Recovery Technology, Chilled Beam, Electronic Board Cooling, Geothermal Heat Mining, Radar Cooling, Satellite Heating-Cooling, Space Capsule Life Comfort System, Airport Runway Heating Systems, Highway & Road Heating Systems, Roof Heating Systems, Floor Heating Systems, Water Heating Systems, Home & Office Heating Systems, Greenhouse Heating Systems, Renewable Energy System, etc. since 2009 to achieve high-efficiency and high-energy-saving future.

Our company recently introduced and patented a three-phase single heat transfer technology, called EHP Technology, that can operate in various geometric shapes without the need for secondary processing.

Areas of Application

EHP Technologies' systems and solutions are ready for applications in various energy demands and climate change needs. The company's solutions are applicable in industries where EHP Technology is used to save up to 67%-100% of ENERGY COSTS. They can be applied in the following sectors; steel industries, chemical industries, mining industries, automotive industries, pre-heating industries, steam & electricity generation, petroleum refining industries, metal production industries, paper, and pulp industries, cement industries, chilling industries, energy production industries, power plant producers, solar panel manufacturers, radiator manufacturers, textile industries, defense industries, heating system manufacturing, and cooling system manufacturing.

Typical applications, which are already in the field, are;

- Electric Heaters
- Solar Collector
- Hybrid Ceiling HVAC Panel
- Passive Cooling System for GSM Relay Stations,
- Panel Radiators
- Chilled Beam Units
- ORC-Cycle Power Generator
- Kalina-Cycle Cooling unit
- Photo Voltaic Thermal Units
- Energy storage Unit
- Heat Recovery for Energy Plants
- Roof Heating and Cooling units
- Underfloor Heating Units
- Electronic Board Cooling Units
- Highway Heating Units
- Human Body Heating Units
- Heat Recovery Units
- Satellite Heating and Cooling Units
- Greenhouse Heating Units
- Water Heating Units
- Geothermal Heat Transfer Units
- Plant Root Heating Units.

EHP Technologies' Innovations

Our innovative EHP technology deployed in various industries will revolutionize energy consumption, demand, and recovery. Ideally, a larger population of electricity or any form of energy users adopts fossil fuels, oil, coal, and other non-eco-friendly energy sources to power homes, industries, and machines. However, EHP Technologies is changing the trend by introducing economic and environment-friendly, efficient technology for heating and cooling. With the EHP Technology, homes and industries can achieve zero carbon emissions and 100% energy efficiency. The EHP Technology can be integrated into various energy heating and cooling appliances to recover waste heat with a cost-effective model. The heat recovery ratio for extreme power plants is at most 20%, costing hundreds of millions of dollars.

The technology can provide the following innovation;

1. EHP can recover approximately 48.6% of waste heat, which is less than 15% in conventional systems.
2. With the same efficiency, EHP Technology decreases 67% Water Heating systems production costs which increases ENERGY-SAVING.

3. It causes up to 53% decreases in Electrical Heaters production costs with the same efficiency as conventional electrical heaters.
4. EHP Technology uses Photovoltaic units for cooling will save up to 75% water for cooling the module, resulting in up to 28% more electrical production than conventional ones by spending up to 58% less power for pumps.
5. EHP Technology integration reduces the production cost of Steel Panel Radiators by up to 67% with the same efficiency as conventional radiators.
6. EHP Technology integration reduces the cost of Underfloor Heating systems by up to 47% with the same efficiency as conventional underfloor heating systems.
7. EHP Technology will cause the Roof Heating systems' costs to decrease by up to 47% with the same efficiency as conventional ones.
8. EHP Technology will cause the Chilled Beams systems costs to decrease by up to 43% with the same efficiency as conventional ones.
9. EHP Technology will cause the Geothermal Heating systems costs to decrease by up to 58% with the same efficiency as conventional ones.
10. EHP Technology is designed to decrease Heat Pump systems costs by up to 59.2% with the same efficiency as conventional heat pump systems.
11. EHP Technology will cause the Photo Voltaic Thermal Unit costs to decrease by up to 38.2% with the same efficiency as conventional ones. OR EHP-included heat pump systems with the exact production cost as conventional ones will have up to 38.2% more efficiency.

EHP Technologies' Energy Economic Approach

Apart from introducing the patented EHP Technology, we're adopting an economic model in our financial approach to solve the pending energy crisis and climate change by launching a financial product dubbed EHP token for our users. We found that solving the current energy crisis and the subsequent impact of climate change by providing cleaner energy requires more than inventing a technical and ergonomic solution, EHP Technology. Therefore, we introduced EHP tokens to proffer financial or economic solutions to cleaner energy.

EHP token is a security token that guarantees holders part-ownership of all EHP products. With the token, holders enter into an investment contract with EHP, and are entitled to certain returns from the sales of EHP products.

EHP Technology Architecture

EHP Ecosystem

This is the native ecosystem of EHP Technologies' products and services. It comprises the various components of the EHP system, including the following;

EHP Technology

EHP technology represents the company's patented technical solution to the global energy crisis and climate change. The EHP functions a heat transfer technology that is currently the only 3-phase (solid, liquid, and gas) in the world. With its integration of nanoparticles, EHP Technology heats up very fast and transmits energy quickly. During the evaporation of the heat inside the heat pipe, the nanoparticles function as a catalyst and increase the rate of evaporation of the liquid.

Conversely, during the re-condensation of steam inside the heat pipe, the nanoparticles collide with the wall of the pipe and fall back, thus ensuring to keep the heat inside. The approach makes the cooling of the EHP much slower. Users can integrate the system into various heating and cooling systems to achieve net zero carbon and efficient energy in homes and industries.

Ethereum Blockchain

EHP Technologies' economic model leverages blockchain to tap from the transparency, tamper-proof, democratic and decentralized peer-to-peer transactional principles. We chose the Ethereum blockchain for its sturdy, future-forward, secure, elastic, and interoperable nature. The various EHP Technologies' blockchain applications, including the security token, smart contracts, and the EHP core, are built on the Ethereum blockchain. Therefore, the Ethereum blockchain is the parent Blockchain of the EHP ecosystem.

EHP Token

This is the economic powerhouse of the EHP Technologies' ecosystem. The EHP token is an ERC-20 security token that confers on holders, an investment contract with EHP Technologies.

EHP Core

This is the application layer of EHP Technologies' ecosystem. On the EHP core, application programming interfaces (API), frameworks, scripts, user interfaces, logics, and sets of rules, including smart contracts, consensus, and decentralization

applications, are specified as it houses the software that allows communication with other systems like the Ethereum blockchain and other interoperable systems.

EHP Contract Layer

The smart contract is one of the most important functionalities of the blockchain. They are predefined rules guiding or determining the roles and actions of participants on the network. The rules are self-executing and automated according to "if or if not" on the network.

The EHP ecosystem uses the smart contract to set rules on the ROI acrued to each token holder, based on the number of tokens held. It also stipulates how token holders can interact with the platform.

EHP Tokenomics

EHP token is an Ethereum standard-compliant ERC-20 token designed to give value to holders as an investment tool. In line with the industry best practice, the EHP token will serve as a security token, and will confer on holder fractional ownership of all EHP products. Holders will be able to get returns on every EHP product sold in the market.

EHP Token Functionality

The functions of the EHP token are summarized as follows:

- $EHP holders have fractional ownership of all EHP products.
- The token is a de facto investment contract between investors and the EHP platform.
- **Revenue share:** 10% of the net profit generated from the sales of EHP products will be distributed to EHP token holders proportionally to their holdings.

Token Model

Token Name	**EHP Security Token**
Symbol	**EHPS**
Type	**ERC20**
Total Supply	**Security Tokens: 357,000,000**
Token for Sale	**Security Tokens: 250,000,000**
Token Price	**Public Sale: $ 0,3280**
Fundraising Goal	**$ 31.160.000**

Token Offering Distribution

Seed sale

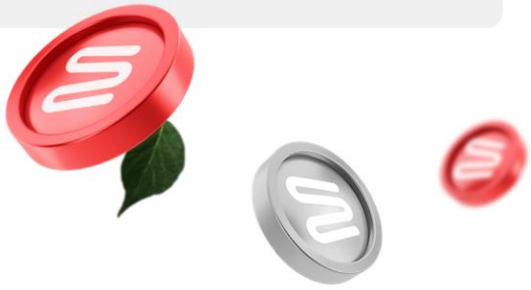
Amount:	100,000,000 EHPS
Price:	$ 0,0410 per token
Vesting:	6 Months Cliff / %5 in 7-8 Months, %10 in 9-17 Months

Public sale

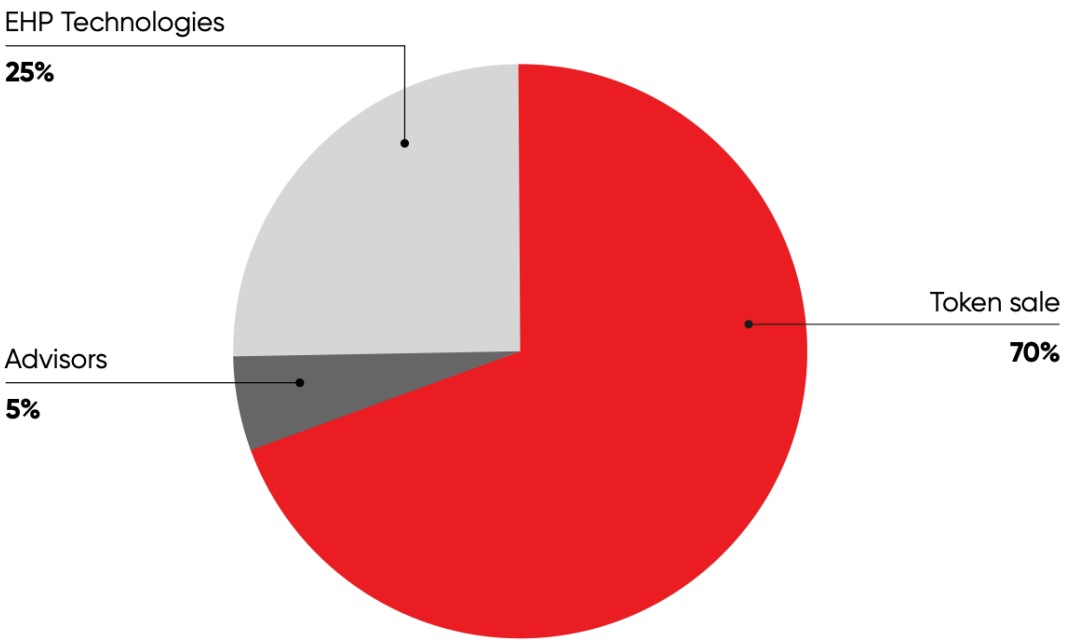
Amount:	30,000,000 EHPS
Price:	$ 0,3280 per token
Vesting:	2 Months Cliff / %10 in 3-12 Months

Private sale

Amount:	120,000,000 EHPS
Price:	$ 0,1435 per token
Vesting:	2 Months Cliff / %5 in 3-4 Months, %10 in 5-13 Months

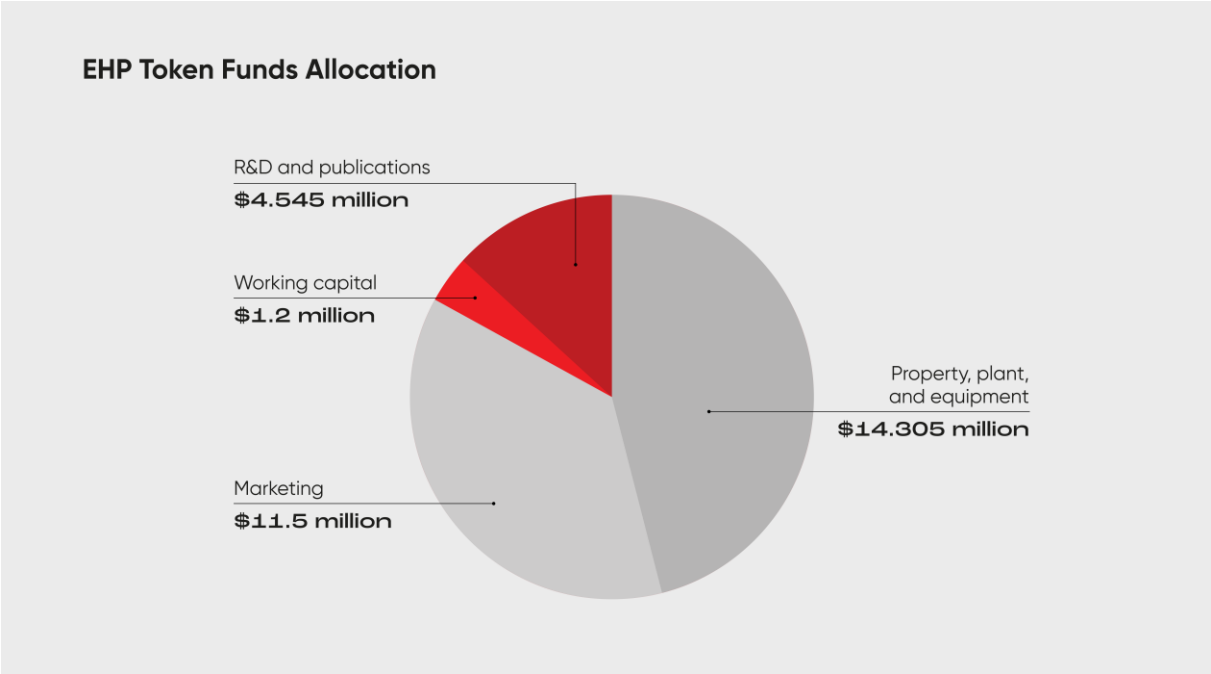


EHP Token Distribution



$EHP Token Funds Allocation

EHP Technologies expects to raise $31 million from the various token sales, and it will be allocated as follows;



The amount raised from token sales is based on our token valuation price, pegged at approximately $0.41 upon launch. The seed sale with 100 million EHP sold at a 90% discount will generate 100M (1-0.9) $0.41=$4.1M dollars of funds raised, where M stands for millions. Similarly, the private and public sales will generate 120M (1-0.65) $0.41=$17.22M and 30M (1-0.2)$0.41=$9.84M dollars, respectively. For the private sale, we offer an average of 65% discount; while investors who bought during the public sale will enjoy up to 20% discount. The discount includes any applicable platform fee. Therefore, the total amount raised from the token sales will be as follows:

$4.1M+$17.22M+$9.84M=$31.16M

How to Participate in the EHP Token Sale

The EHP token offering is open to the public through approved exchanges, the EHP platform and third-party markets. Participants can purchase using BTC, ETH, and other supported currencies.

Yearly Cost & Revenue of EHP Products

PRODUCTS	Cost Year 1	Total Income Y1	Cost Year 2	Total Income Y2	Cost Year 3	Total Income Y3
Aluminum Radiator	$17.115.000	$23.025.000	$19.682.250	$26.478.750	$22.634.587,50	$30.450.562,50
Electric Aluminum Radiator	$11.395.440	$14.175.000	$13.104.756	$16.301.250	$15.070.469,40	$18.746.437,50
Towel Warmer	$1.029000	$1.320.000	$1.183.350	$1.518.000	$1.360.852,50	$1.745.700
Electric Towel Warmer	$5.213.600	$8.610.000	$5.995.640	$9901.500	$6.894.986	$11.386.725
Infrared Heater	$8.890.000	$12.000.000	$10.223.500	$13.800.000	$11.757.025	$15.870.000
Underfloor Heating	$15.764.000	$22.400.000	$18.128.600	$25.760.000	$20.847.890	$29.624.000
Roof Heating	$2.905.000	$3.750.000	$3.340.750	$4.312.500	$3.841.862,50	$4.959.375
PV Cooling – PVT	$2.961.000	$3.900.000	$3.405.150	$4.485.000	$3.915.922,50	$5.157.750
	$65.273.040	$89.180.000	$75.063.996	$102.557.000	$86.323.595,40	$117940.550

Financial Projections

EHP 3-YEAR PROJECTIONS			
Year	Year 1	Year 2	Year 3
Revenue	$89.180.000	$102.557.000	$117.940.550
Costs	$65.273.040	$75.063.996	$86.323.595
Profit before taxes	$23.906.960	$27.493.004	$31.616.955

Return on Investment (ROI)

Based on an initial investment of $1,000,000

Seed stage

Year	Token Amout	Total Profit	Profit Share	Profit Share per Token	ROI
1	24.390.243,90	$23.906.960,00	70%	$0,0670	189,06%
2	24.390.243,90	$27.493.004,00	70%	$0,0770	189,06%
3	24.390.243,90	$31.616.955,00	70%	$0,0886	189,06%
				Total ROI	567,17%

Private stage

Year	Token Amout	Total Profit	Profit Share	Profit Share per Token	ROI
1	6.968.641,11	$23.906.960,00	70%	$0,0670	54,02%
2	6.968.641,11	$27.493.004,00	70%	$0,0770	54,02%
3	6.968.641,11	$31.616.955,00	70%	$0,0886	54,02%
				Total ROI	162,05%

Legal Setup

- EHP Technologies AG and Enover are Sister Companies
- EHP Technologies AG is a Swiss stock company and the issuer of the security token offering
- Enover is a manufacturing company that holds the patents for EHP technology
- A license agreement exists between the two companies, where Enover provides EHP Technologies AG with its patents and know-how.
- All EHP products will be manufactured in the new factory to be built by EHP Technologies AG.

Project Roadmap

Timeframe	Product Integration

2009	Start of the R&D phase
2011	Start of the prototype testing for more than 90 products according to ASHRAE standards.
2014	Start of the test phase in accredited test laboratories of notable universities like Esim, Intertek, HLK Stuttgart University.
2015	Test started on Gazi University.
2017	Test begin in accredited test laboratories of METU, Başkent University, TOBB University, of Economics and Technology.
2021	Special Edition of the Energies journal, a leader in the energy sector, announced that EHP technology will be the technology of the future. More than 20 publications have been published in the world's most respected scientific journals. 3 owned patents and 27 in the application process. 14 owned design registries and 2 in the application process.
2022	A total of 14 design registries are owned, while 2 are in the application process.
2023	Q1: Start of the marketing campaign and community building Q2/Q3: Seed and Private Sale Q4: Public Sale
2024 (Q1)	• Listing on top-tier CEXs • Factory construction for mass production • Building a distributor network in Europe
2025 (Q1)	Start of mass production

Team

DR. MALİK ÇAĞLAR

President

Mr. Malik Çağlar is the chairman of the board of directors of M.C. INVESTMENTS HOLDING-UK. founded in 1999. It was one of the first project management and professional consultancy, technical R&D groups specializing in the energy, mining, health and defense sectors. He has consulted and managed a series of projects valued at $USD 5.4 billion in the defense, health and energy sectors since 1999. He is actively engaged as an investor with corporations in North Africa, China, India, the UK, the USA, Jordan, and Syria.

ANIL ÇİL

CEO

Mr. Anıl Çil has worked professionally in Turkey's largest automotive group since 2005, with the titles of sales, CRM expertise and e-sales project officer. In 2013, he founded Qbicom Digital and provided performance-oriented services to customers in the digital transformation process and marketing issues, mainly focusing on health tourism, education, construction, e-commerce and production sectors. Mr. Anil has developed projects that enable brands and sports clubs to digitalize using the blockchain infrastructure. In particular, he participated in the team that performed one of the first Fan Token projects in the world. He actively provides services from London in tokenising, scaling, and completing digital transformation processes of energy, gaming, donation, sports and technology initiatives projects in England, Europe, and Turkey.

PROF. DR. BIROL KILKIŞ

Scientific Consultant

Prof Dr. Birol Kılkış had his engineering internships in Zwolle Holland at van Der Horst Lemet Chromium plants in 1968 and 1969. He was also awarded a scholarship acceptance from TU Delft on engine tribology. Later, he graduated from the Mechanical Engineering Department of Middle East Technical University with high honors in 1970. He received US AID graduate program scholarship. He completed his innovative research on heat transfer in fluidized beds in nuclear plants and conventional power plants with his local fluidization model for the first time in the literature, at the von Karman Institute for Fluid Dynamics in Belgium, with NATO Scholarship. He has received numerous academic awards and is also Fellow ASHRAE and Distinguished Lecturer RAL Exceptional and Distinguished Service Awards. In 2023, Prof. Birol was ranked in the top 2% in World Scientific and University Rankings by Total H Index 22. His overseas activities covered two interim periods, namely as the Director of Research and Development at the Heatway Company (Later Watts Radiant) in Missouri on radiant floor heating, ice and snow melting systems, USA, and as a contracting researcher for the US Department of Energy (USDOE), at the Morgantown Energy Technology Center on coal gasification, spanning a total of 19 years in the USA. He was also an adjunct professor at the University of Missouri Rolla. He acted as the project principal for snow melting systems for US Air Force bases, heat tracing of fighter jet aircraft during freezing periods, and snow/ice melting of helicopter pads on Navy Vessels.

PROF. DR. ATILLA BIYIKOĞLU

Technical Consultant

Mr. Atilla Bıyıkoğlu has received license degree in 1989 from Mechanical Engineering Department at Gazi University, MSc. degree in 1992 from Mechanical Engineering Department at M.E.T.U., and PhD degree in 1998 from Mechanical Engineering Department of Gazi University. He has worked as Assist. Prof. between 2003 and 2007, Associate Prof. between 2007 and 2013, and served as Chair in Mechanical Engineering Department at Gazi University between 2013 and 2017. He is among the founders of Clean Energy Research and Application Center of Gazi University and has been serving as a co-chair since 2018. He served as President of Turkish Society for Thermal Sciences and Technology (TIBTD) between 2018 and 2021. He served as president of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) Turkish Chapter for the term 2020-22. He still continues his duty as vice-president of ASHRAE Turkish Chapter for the term 2022-23. Additionally, he has been working in ASHRAE Region-At-Large as RAL Historian since 2018. He has studies on application of Thermodynamic Laws, entropy production, combustion, reacting flows, fuel cells, boron production, natural convection, cooling systems and coal gasification.

MERT ŞENGÜL

R&D Director

Mr. Mert Şengül graduated from Karadeniz Technical University, Trabzon, in 2010 with a BSc degree in mechanical engineering. He is the R&D director at EHP Technologies, managing production designing, CFD analysis, and prototype testing. Prior to working with EHP Technologies, he worked for Daikin company in heating, cooling, ventilation, air conditioning, VRV, plumbing systems, design, and marketing. He has also worked at Idealist Engineering as a mechanical project designer, at Panel Machine Inc. as a tunnel formwork designer and at Mesa Construction as a tunnel formwork designer. He can professionally use Autodesk AutoCAD, SolidWorks, and Ansys Fluent. He has a Natural Gas Interior Installation Engineering Qualification Certificate and a Conversion of Industrial Facilities to Natural Gas Engineering Qualification Certificate.

BÜNYAMIN YAVAŞ

Production Director

Mr. Bünyamin Yavaş is production director of EHP Technologies. He has been working for EHP Technologies since 2013. Bünyamin is highly experienced in mass production and prototype production. He is proficient in using CNC laser cutting, CNC press brake, electrostatic powder painting, welding, and milling cutters.

CANBERK İNAL

Design Expert

Mr. Canberk is an expert in Thermal Environment Engineering, welding methods, cooling technique, air conditioning principles, industrial air pollution control, fluid mechanics, and thermodynamics. He was actively involved in laboratory experiments and calculations, such as determining radiators' thermal capacities, underfloor heating systems' thermal capacity, and the thermal conductivity coefficient. He actively uses programs such as AutoCAD, SolidWorks, and MS Office.

Advisors

Viktor Larionov

Dr. Pavel Entin

Sandra Tusin

Disclaimer

The whitepaper explains the EHP Technologies project as a blockchain-powered, smart contract-enabled technology designed to revolutionize the energy sector and offer solutions to the current global energy crisis and climate change effect. All information provided in this paper is for educative and informative purposes and should not be seen as investment advice. EHP Technologies and its team will not be liable for misrepresentation and misapplication of the information in this whitepaper. The details regarding the $EHP and some other statements are futuristic and should not be misconstrued as a statement of certainty.

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