PRESS RELEASE

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Underfloor Radiant Heating by STEP HEAT can be Powered by Solar Energy

STEP Warmfloor is the "future of warmth," as powered by alternative energy sources, like wind and solar, for safe and sustainable heating solutions.

STEP HEAT can be powered by a Solar Flower.

ST LOUIS, MO- (OCTOBER 2021) — From solar to wind, green energy is the fastest-growing energy source in the world. It has many benefits for the climate, the environment, the economy, and communities. Most Americans (77%) say it's more important for the United States to develop alternative energy sources, such as solar and wind power than to produce more coal, oil, and other fossil fuels. Over the past decade, solar power has experienced the largest percentage growth of any U.S. energy source. Solar generated just over 2 billion kilowatt-hours of electricity in 2008. A decade later, it generated more than 93 billion kilowatt-hours, an almost 46-fold increase![1] But how are we using alternative energy sources like solar and wind power to heat our homes, offices, industrial operations, RVs, and boats? STEP HEAT, known for its radiant heating solutions, offers innovative, self-regulating, semi-conductive polymer heating elements, which are often connected to a 24V power supply from standard 120V, 208V, or 240V and can run directly to a solar panel or windmill. Solar panels can create DC energy output in either 12 or 24 volts. While, most radiant heating systems typically use 120 or 240 volts AC and need an inverter, the thin STEP HEAT heating membrane can run on either DC or AC power, making them all the more compelling choice for easy alternative energy compatibility. Now, everyone can harness "the Future of Warmth" and heat their homes, buildings, and more with clean, sustainable alternative energy.

"STEP HEAT has an important role to play in the future of energy as a green-building product company, and we've been on the impetus of energy diversification for quite some time," said President of STEP HEAT, Monica Irgens. "Our innovative technology moves our industry forward. The future remains bright for

[1] Renewable energy is growing fast in the U.S. but fossil fuels still dominate. Pew Research Center, January 15. 2020

renewable energy, and harvesting solar energy and converting it into electrical power has enabled us to power our radiant heating systems in new and progressive ways."

"Combining STEP HEAT's consumption efficiency and flexible powering formats makes it simple to integrate your radiant heating system with an on-site Solar PV or Wind system design to reduce (or eliminate) your electricity cost, lower your carbon footprint, and enjoy all of the comfort and wellness benefits that STEP HEAT radiant heat systems deliver," said STEP HEAT Distributor and President of Green Wave Distribution, Skip Mauro. "We recently specified STEP Warmfloor underfloor radiant heating by STEP HEAT for a net metering application. STEP HEAT's standard AC powering format is suitable as designed and requires no additional equipment expense to tie in the power supplies at the main electrical panel that provide low voltage current to charge the heating elements."

STEP HEAT AS A GREEN BUILDING TECHNOLOGY

Self-regulating (PTC nano-technology) allows the STEP HEAT element to heat with maximum power in cold environments, using less energy to achieve the desired temperature. Calculations indicate that STEP HEAT green radiant heating technology uses 40-60% less energy to reach the same heat output compared to other radiant heating methods like cables and hydronics. To date, millions of square feet of STEP HEAT have been installed in residential, industrial, and commercial projects worldwide, even warming the batteries for NASA's GPS and all seismic sensors on the South Pole.

STEP HEAT, when properly installed, is easy to install and without failures during installation. Simply cut the element to the appropriate length and connect the electrical components before securing the panels to the sub-floor with approved adhesives. Best of all, there is no need to order customized mats to fit a project as elements can be easily cut to size at the build site. It's also a healthy alternative to forced heat systems because it does not transport allergens and dust, making it the best solution for those that suffer from asthma and allergies. STEP HEAT is the future of heating, one of optimized energy efficiency, warmth, safety, and wellness.

About STEP HEAT

STEP HEAT is transforming the way we heat our homes, delivering healthy warmth for a consistently comfortable environment. Its radiant heating systems warm up a room by first heating cold objects within it. This avoids spreading allergens, which can happen with forced air systems that provide warmth by blowing heated air into rooms. Because STEP HEAT's floor-installed heating elements are self-regulating, they decrease electrical power usage as ambient temperature increases, making them energy-efficient, without risk of overheating. STEP HEAT radiant heating systems are manufactured in St. Louis, Missouri. The Self-regulating Technology of Electro Plastics from which the company derives its name was first developed in 1981 as a method of heating automobile seats, but has since been adapted for application to homes, roofs for deicing, tiny homes, recreational vehicles, and boats. In 1994, Stephan and Monica introduced the United States to their radiant heating system through Electro Plastics, Inc. To date millions of square feet have been installed for various applications throughout the world.

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