

## eChiller – The World’s Most Sustainable Refrigeration Systems

Efficient Energy Becomes the First Manufacturer to Produce Climate-Neutral Chillers

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Efficient Energy, the German clean cooling pioneer for sustainable refrigeration technology, is setting new standards for sustainability and climate protection in the refrigeration industry: From 2022, the clean tech company will produce its eChiller product series as climate-neutral refrigeration machines and, as such, become the refrigeration industry’s only supplier worldwide to offer climate-neutral chillers.

### **Climate protection pioneer paves the way towards a climate-neutral industry**

The refrigeration and air-conditioning equipment used by the global refrigeration industry accounts for around 8 percent of the world’s CO<sub>2</sub> emissions. But these are only the direct and indirect emissions caused by the fluorinated refrigerants and energy-intensive processes used by conventional technologies: If the emissions of a chiller life cycle analysis are used as the basis, and the *entire* net impact on the environment – from raw material extraction to disposal – is calculated, the bottom line is even more alarming. HVAC industry pioneer, Efficient Energy, is the only supplier of chillers to have gone this extra mile to date and is setting new standards in doing so.

Together with climate protection expert [ClimatePartner](#), the carbon footprint of the entire eChiller product family was calculated and documented, from the raw material and logistics data through to packaging and disposal. The CO<sub>2</sub> equivalent emissions of these products were then offset by a recognised climate protection project that is certified in accordance with international standards and, additionally to climate protection, also contributes to many of the United Nations’ Sustainability Development Goals (SDGs).

By combining the use of water as a climate-neutral refrigerant and the use of green electricity, Efficient Energy can offer its customers comprehensive, climate-neutral cooling that allows the operator to reduce its carbon footprint in this area to zero.

“Not only are we pioneers of sustainable refrigeration technology and stand for water as a refrigerant, but holistic climate protection and sustainable business belong to our unambiguous corporate values. With Efficient Energy itself having been climate neutral since 2020, it’s the next logical step of our Green Pledge that our products should also be climate neutral. I hope as many companies as possible will be as resolute as us in implementing their sustainability goals, and will have the courage to take the next steps towards a climate-neutral industry,” comments Efficient Energy CEO, Georg Dietrich.

### **Climate-neutral eChillers help climate protection project to construct small hydropower plants**

As a climate-neutral company, Efficient Energy has already been helping the climate protection project in Virunga National Park in Congo to construct small hydropower plants since 2021. With the offsetting of the eChiller products, Efficient Energy’s promotion of the project is taken to the next level. The aim of the climate protection project is to use the hydroelectric power plants as an alternative energy source, and thereby avoid deforestation for lignite production – saving trees that serve as the habitat of a third of the mountain gorillas still living in the wild, thus providing them with protection.

“Our products carry the independent label climate neutral, thereby rendering their climate neutrality transparent for our customers and allowing them to learn more about the climate protection project,” adds Thomas Bartmann, Head of Sales and Member of the Efficient Energy Executive Board.

### **Water – the most sustainable of all refrigerants**

Efficient Energy’s eChiller product range employs Blue<sup>zero</sup>® technology which allows water to be used as a refrigerant and dispense entirely with environmentally harmful and sometimes hazardous F-

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gases. Blue<sup>zero</sup>® technology is ideal for cooling data centres and server rooms, industrial processes, machines and switch cabinets as well as for building air conditioning.

Further information on the climate neutrality of Efficient Energy and its products as well as the supported climate protection project can be found under the following links:

- **Climate neutrality of Efficient Energy and eChiller:** <https://efficient-energy.de/en/refrigeration-technology-supplier/sustainability/climate-neutrality/>
- **Climate protection project:** Hydropower plants in Virunga National Park, People's Republic of Congo <https://efficient-energy.de/en/refrigeration-technology-supplier/sustainability/climate-neutrality/>

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### About Efficient Energy

Efficient Energy GmbH is a manufacturer of sustainable refrigeration technology and is based in the greater Munich area. The rapidly expanding clean tech company, which has been on the market since 2018, is pioneering clean cooling and clean heating with its Blue<sup>zero</sup>® technology which lets water (R718) be used as a refrigerant. The climate-neutral certified chillers of its eChiller product family dispense entirely with environmentally harmful fluorinated refrigerants and set new standards in energy efficiency and safety in the refrigeration industry. Efficient Energy has set itself the goal of actively shaping the climate revolution with customer-orientated, innovative and environmentally friendly solutions. The company has received several awards including the European Commission's *European Business Award for the Environment* for Europe's most innovative and sustainable product solution in 2018/2019, the G20 Innovation League's *Cleantech Top 20* for its outstanding contribution to solving the global climate crisis, and was ranked Germany's number 3 tech industry growth champion by Deloitte's *Technology Fast 50 Award 2021*.

<https://efficient-energy.de/en/>