

COMPANY PROFILE

Munich-based Orcan Energy AG is a leading cleantech company whose efficient energy solutions enable companies from different sectors of industry to convert their unused waste heat into clean power easily and efficiently, thereby reducing costs and contributing to environmental conservation. Orcan Energy was founded in 2008 by physicists Dr. Andreas Sichert (now Chief Executive Officer), Dr. Andreas Schuster and Richard Aumann, and currently employs around 60 people. Since June 2015, Wolfgang Brand has acted as the company's Chief Financial Officer, completing Orcan Energy AG's two-person management team.

The efficiency PACK developed by Orcan Energy, a compact micro power plant, converts waste heat energy, for example from industrial companies, into electricity. Users of the efficiency PACK thus benefit from carbon-free power generated at the extremely low cost of around 0.04 euros per kilowatt hour. A large-scale rollout of the technology could reduce costs to as little as 0.03 euros. This means that Orcan Energy provides the lowest power generation costs from waste heat in the entire industry worldwide. The power is fed directly into the grid or can be used immediately.

Orcan Energy's portfolio includes integration solutions (employing waste heat as a component) that are ready for series production as well as plug & play electricity generation modules that use Organic Rankine Cycle technology to convert waste heat into carbon-free electrical energy. Based on intensive research, development and market trials, Orcan Energy is now the technology leader in the low temperature segment upwards of 60 degrees Celsius.

Because Orcan Energy exclusively utilizes tried-and-tested standard components to produce the efficiency PACK, which boasts an innovative design, operation of the solutions is particularly stable and low-maintenance. Since the Orcan technology is also extremely flexible in terms of the source of waste heat, it can be used in virtually all scenarios in which waste heat is generated – in foundries, biogas installations, glass-making plants, building materials production, breweries, and ship and truck engines.

In Europe, 70 Orcan systems are now in use that have already generated around 7 gigawatt hours of power in total. At present, Orcan Energy's efficiency PACKs are predominantly in operation at biogas installations in Germany. An increasing number of ship operators are also investing in efficiency PACKS because Orcan Energy's waste heat recovery system can be used for both existing and new combustion engines in ships.