

## Top 10 Renewable Energy Solution Providers in Europe—2019

**R**enewable energy has taken centre stage in our endeavour to a less carbon-intensive and sustainable energy future. In Europe, the renewable energy industry is witnessing rapid growth bolstered by innovation and technological advancements including data analytics, AI and cloud computing. The sharp cost reduction and affordability are also playing a significant role in popularising the renewables in domestic as well as commercial level. In addition, policy interventions by governments across Europe contribute to the rapid development and deployment of technologies for harnessing renewable energy.

This has paved the way for a number of cutting-edge renewable energy solutions to hit the European market with innovative features for ensuring a sustainable environment. The various renewable projects in the Europe has generated 245.8 TWh of electricity for the first and second quarter of the year 2019 which is 21.3 per cent more than the combined 202.7TWh produced from gas, coal lignite, oil and peat during the same period, as per the report by EnAppSys, a energy data analyst, that analysis market activity across European energy markets.

Understanding the changing times, Energy CIO Insights has compiled a list of top 10 renewable energy solution providers in Europe to guide businesses in harnessing the power of technology to tackle today's umpteen challenges, reduce workload, and increase efficiencies.

In the wake of these developments in the renewable energy landscape, we are glad to feature Switzerland-based tiko Energy Solutions on our annual list of renewable energy solution providers in Europe. The company is leveraging the perfect balance of specific hardware solutions and operational systems to aid clients in effectively decentralising their energy grids.

With several innovative technological capabilities and success stories up its sleeves, these companies are continually proving their expertise in the field of renewable energy solutions. We hope this issue of Energy CIO Insights will help you build a partnership to migrate to a technologically-driven and sustainable power generation environment.

We present to you Energy CIO Insights' "Top 10 Renewable Energy Solution Providers in Europe—2019."



**Company:**  
tiko Energy Solutions

**Description:**  
Leverages the perfect balance of specific hardware solutions and operational systems to aid clients in effectively decentralising their energy grids

**Key Person:**  
Sandra Trittin  
Co-Founder & Head of  
Business Development

**Website:**  
tiko.energy

# TIKO ENERGY SOLUTIONS

## DECENTRALISED ENERGY MANAGEMENT



Sandra Trittin

**C**oined during the post-French Revolution era, the term ‘decentralisation’ describes a leadership structure where decision-making authority does not rest upon one person. And owing to the success of this model of distributing responsibilities among a larger group, decentralisation has not only found its relevance as a unique employee administrative model but also as an efficient technological assets management and scaling approach. In particular, these feature sets are apt for the energy sector, where a decentralised architecture can enable businesses and common citizens to utilise electricity in the most optimised and cost-effective way for themselves, others and the community as a whole. Among the several steps that energy firms are taking towards

incorporating decentralised energy systems today, virtual power plants (VPPs) are continuously emerging based on not only big loads and production units but also including assets from individual homes like batteries, heating and cooling systems. However, to leverage VPPs new business and services models are required and energy firms are struggling to develop and implement these.

Enter tiko Energy Solutions, a Swiss company that offers groundbreaking energy management solutions to aid energy firms to digitalise and decentralise their energy services and grids. “Our white label solutions allow energy companies to share power management capabilities of their assets and build innovative distribution and business models efficient and impactful,” says Sandra Trittin, co-founder and head of business development at tiko Energy Solutions.

The company currently has two core offerings, a unique VPP, and a smart energy management system. tiko’s VPP provides functionalities almost like a conventional power plant and delivers the full-spectrum of leading-edge energy services. “The round-the-clock availability of our VPP and its ability to measure and leverage the client’s energy usage gives the utilities a competitive edge in the market,” states Trittin. At the



same time, the company’s smart energy management system allows users to attach millions of energy assets, irrespective of their brand, “and enables them to optimize the storage and distribution capabilities of all their assets,” adds Trittin. Users are able to monitor and

throughout Europe. And based on the insights that it has gained over the years, tiko has identified three pillars for the development of new business models which need special care, marketing/sales, installation and monetization of the VPP. To support this tiko has developed several support applications for its clients to

frequency response market. To achieve the desired outcome, tiko provided hardware and software solutions that leveraged machine learning algorithms to bolster the energy sharing efficiency of Sonnen’s batteries. In another instance, tiko helped France-based electric utility company, ENGIE, connect their heat pumps and direct heaters into a VPP to bolster their demand response strategy better and offer a unique and differentiating service to their clients.

Looking ahead, the company plans to expand the capabilities of its portfolio to help clients that are working in the emerging smart charging space. tiko is also developing solutions that incorporate blockchain to enhance the flexibility of its offerings for source certification, microgrid optimization, peer-to-peer energy lending, and community-oriented solutions, also in countries other than Europe. By striking the perfect balance between technology solutions and extensive industry knowledge, Trittin believes that tiko is perfectly positioned to revolutionise the energy sector through its decentralised energy management approach. **EC**

“Our white label solutions allow energy companies to share the power management capabilities of their assets and build innovative energy distribution models seamlessly and quickly”

optimize their energy consumption. And with the solution’s eco-mode functionality and alarming services, homeowners can remotely control their assets and keep the comfort without any hassle.

Since tiko’s inception in 2012, the company has worked on energy projects

mitigate their challenges efficiently.

With a behemoth of such capabilities, tiko has grabbed the attention of energy companies of all sizes and is igniting numerous success stories with its clients. In one instance, tiko assisted Germany-based energy firm, Sonnen, aggregate the capabilities of their batteries for the fast