

"Next Pool", 10,000 units aggregated in Virtual Power Plant

Organization

Next Kraftwerke

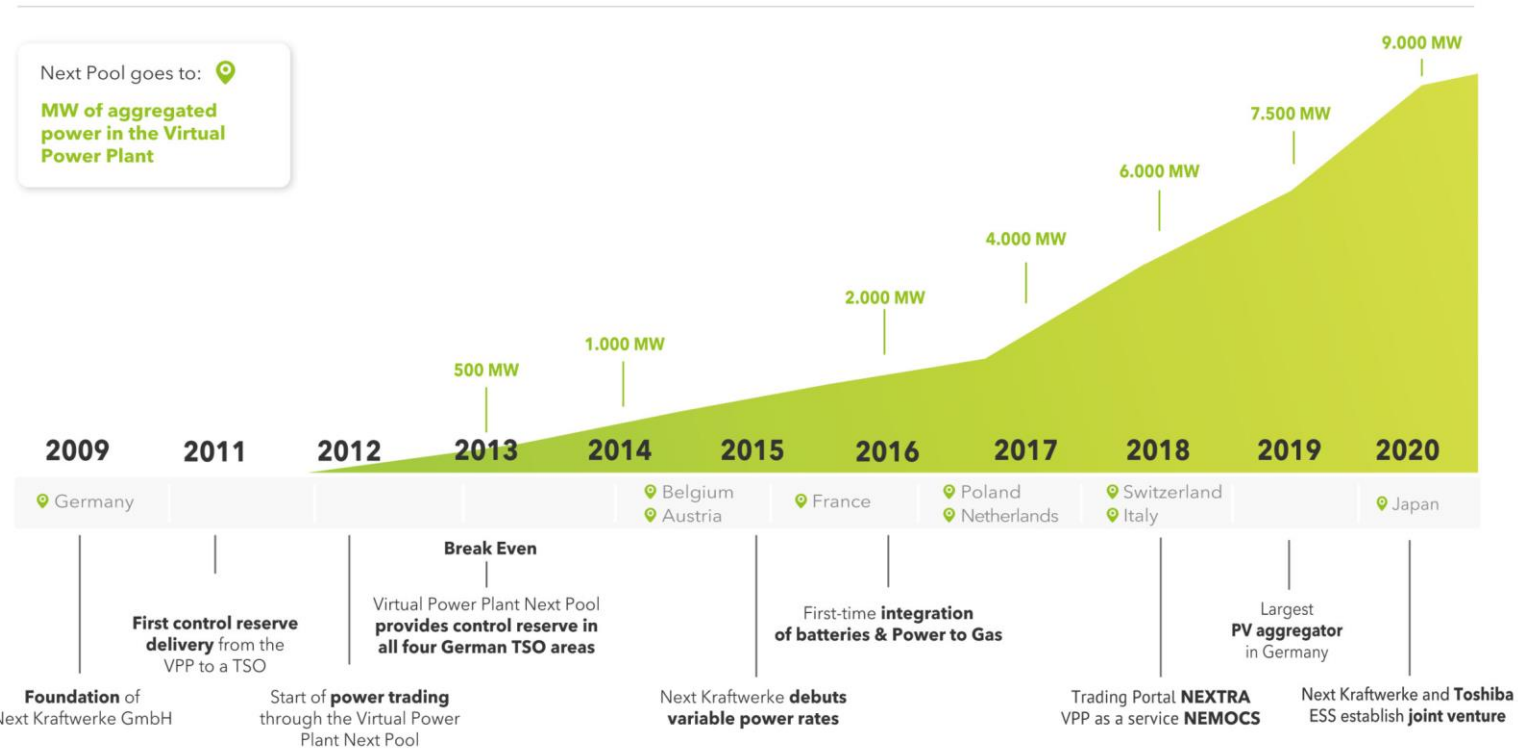
Launched time

2009

Overview

- Next Kraftwerke digitally aggregates distributed power sources from renewable energy via the remote control unit Next Box, and sells the aggregated power with added value in the trading market.

Milestones



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Barriers on developing the innovation

- Next Kraftwerke provides an answer to the challenges of the energy system of the future, which needs to integrate more and more volatile renewable energy sources.

Success factors to overcome the above barriers

- Next Kraftwerke has developed a control system, which networks the assets in the VPP and is able to monitor, coordinate and control them.
- It allows for intelligent shifting of the power production to times with high prices at the power exchange, while shifting the power consumption to lower price regions and provides balancing energy through the pool of aggregated assets.

Future action plan

- Shell acquires Next Kraftwerke to strengthen position in renewable energy trading.
- The complementary skills of the two companies will also support utility-scale large renewable projects by providing a wide range of hedging and risk management options.
- Additionally, it announced a joint venture with Japanese electronics giant Toshiba Energy Systems & Solutions Corporation (Toshiba ESS) in November 2020, to study the possibility of VPP solutions based in Japan.

