

Lauren Edelman

Energy Specialist, Facebook

Facebook has set a goal to support our global operations with 100% renewable electricity in 2020 and beyond. Facebook has contracted over 5 GW of renewable energy, making us one of the largest corporate purchasers in the world. In 2019 we achieved 86% renewable electricity and are on track to meet our 2020 goal. Facebook is also committed to building some of the most advanced, energy-efficient data centers in the world. In Denmark, in addition to our typical efficient hardware, outside air cooling, and wind energy supply, we also installed infrastructure to capture the excess heat generated by our servers and recycle it into the local district heating system operated by Fjernvarme Fyn. Both our data center and Fjernvarme Fyn's heat pump facility were located and designed with heat recovery in mind from the outset of the project in 2014. The current goal is to recover and donate 100,000 MWh of energy annually from our servers — enough to warm 6,900 homes. The project is among the largest data center heat recovery solutions in the world. The presentation will discuss Facebook's commitment to renewable energy and energy efficiency, with a focus on the innovative heat recovery solution that evolved from a multidisciplinary team of Facebook and Fjernvarme Fyn engineers, architects, designers, facility operators, and energy professionals who worked to test the limits of commercially available technology at scale.

