



We buy and recycle your excess heat

When planning your next data center investment – add the value of your generated excess heat to the revenue side. The benefits are both financial and environmental.

With SamEnergi, Vattenfall offers to buy your excess heat, transport it and reuse it where it is needed the most, heating up nearby residential and commercial buildings that is. SamEnergi makes the process of selling you excess heat easy. Making your business a small-scale producer and contribute to the circular economy, where energy can be transferred from those with a surplus to those in need.

Vattenfall in short

Vattenfall is a European energy company with approximately 20,000 employees. For more than 100 years we have electrified industries, supplied energy to people’s homes and modernized our way of living through innovation and cooperation.

Contact us

Sofia Päivärinne, +46-73 738 84 77,
samenergi@vattenfall.com

We are determined to enable the fossil freedom that drives society forward. To succeed we must become fossil-free ourselves. But that’s not enough. We are looking beyond our own industry to see where we can really make a difference. And that is where SamEnergi plays a key role. ■

How to become a partner - 5 simple steps

1. Contact Vattenfall early in the establishment process.
2. Receive help to find a suitable location for the data center.
3. Vattenfall develops a business case to buy the excess heat.
4. Final agreement.
5. Installation and commissioning of heat recovery equipment.

District heating networks in Sweden

- Askersund
- Gustavsberg
- Haninge/Tyresö/Älta
- Knivsta
- Motala
- Nyköping
- Storvreta
- Uppsala
- Vänersborg

- Vattenfall subsidiaries further operate the following sites:
- Fagersta, Grängesberg, Ludvika, Norberg (VB Energi)
 - Hemse, Klintehamn, Slite,
 - Visby (Gotlands Energi AB, GEAB)
 - Lilla Edet

SamEnergi makes a tangible product out of recovered heat

SamEnergi is Vattenfall’s business for purchasing excess heat from companies such as data centers. We seek to make it almost as simple to sell heat to us as it is to buy district heating from us.

Not new - but now more accessible

Recovering excess heat from businesses and supplying it to the district heating network is far from new as such. In Vänersborg, Sweden, excess heat produced by Vargön’s smelting factory has heated the town since the 80’s. But generally, collaboration terms have been freely negotiated and more or less only an option for heavy industries with large excess heat volumes. SamEnergi simplifies the

agreement format to lower the threshold for companies to sell their excess heat. The payment for sold heat can be either variable remuneration only or a combination of fixed and variable remuneration.

“Sweden’s sustainable green electricity and well-developed district heating infrastructure present a unique opportunity to maximize the potential of heat recovery. Through Vattenfall’s SamEnergi initiative, this creates exceptional opportunities for data centers to reduce their environmental footprint by delivering excess heat into the district heating networks”. says Sofia Päivärinne, Senior Business Project Manager at Heat Sweden, Vattenfall. ■



A partnership that turns algae production into heat

In Gustavsberg, east of Stockholm, Astra Real produces natural astaxanthin, a powerful antioxidant derived from algae. Through a collaboration with Vattenfall's SamEnergi solution, the excess heat from their production process now serves a vital purpose: warming up to 2,500 households in the local community via the district heating network.

From waste to heat

Sustainability has always been at the core of Astra Real's operations. Yet, the significant amount of heat generated during algae cultivation once went unused. Through the SamEnergi initiative, Astra Real has found a way to recycle this surplus energy, turning it into a resource for the community.

The process is simple yet impactful: the excess heat from Astra Real's production facility is captured and integrated into Gustavsberg's district heating system. This not only prevents valuable energy from going to waste, but also reduces the need for additional heat production by roughly 20 percent, saving more than 15 million kilowatt-hours of heat annually.

A boost for the local community

The repurposed heat is now warming thousands of homes and premises in Gustavsberg, reducing the community's overall carbon footprint.

Driving change through collaboration

This collaboration exemplifies how businesses and communities can work together to achieve shared sustainability goals. In this example, Astra Real has demonstrated how industrial byproducts can be harnessed to support sustainable energy systems, helping the company and the local community to take concrete steps toward a more environmentally responsible future. ■



**Interested in SamEnergi?
Contact us!**

Sofia Päivärinne
+46-73 738 84 77,
samenergi@vattenfall.com