Turning Data Center Power Equations Up-Side Down

ELEMENTICA

Minimum Latency

- Stockholm is northern Europe's main IP hub
- 15 m/s average ping time to/from Frankfurt
- Swedish Ericsson and Stokab operate fiber networks worldwide – equivalent of 68 rounds around the globe
- Parent company Bahnhof operates Sweden's most experienced ISP

High Performance

- Elementica handles more power and heat generation per rack than standard datacenter industry solutions
- 21MW+
- Proven technology (we already run 3 heat recovery data centers in Stockholm)

Central Location

- Quick and easy access
- Close to two regional airports
- Top-floor delivery bay
- Adjacent office space available at market price
- Based in the EU w/strong data protections laws

Heat recovery = Lower costs

- Heat recovery cuts energy price in half
- Simple pricing per reserved kW and consumed kWh only

Data Dense

- PuE 1.1
- Fits up 42 units and 25 kW+ per rack (!)
- Fully compliant with liquid cooling solutions
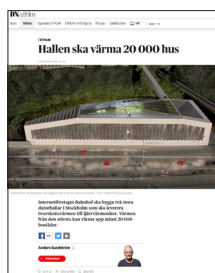
Future Proof

- Industry-standard cages and racks
- Long-term stable electricity price
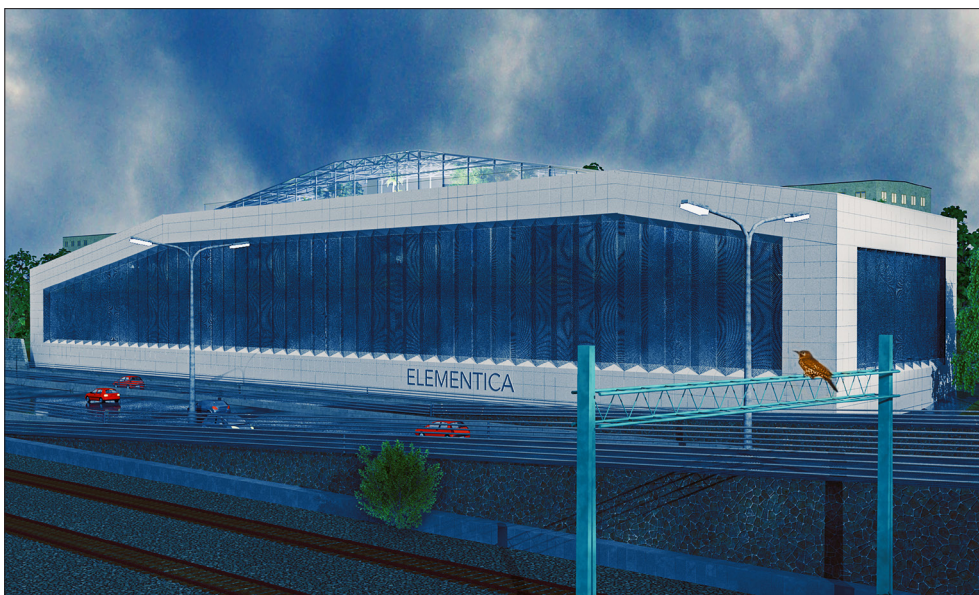- Tier 3 equivalent
- 110kV feeds w/onsite 10kV gen-sets

Triple Green

- 97% energy recovery
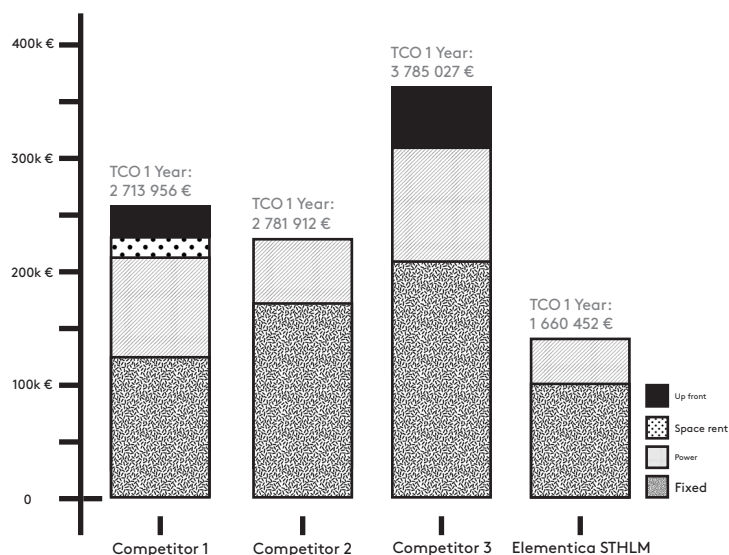- *Climate Positive*
- 100% carbon-free

Positive PR included

Hallen ska värma 20 000 hus

Internet hub of northern EU

Price comparison w/competitors*

Competitor 1 — TCO 1 Year: 2 713 956 €
Competitor 2 — TCO 1 Year: 2 781 912 €
Competitor 3 — TCO 1 Year: 3 785 027 €
Elementica STHLM — TCO 1 Year: 1 660 452 €

Legend:
- Up front
- Space rent
- Power
- Fixed

* Examples at 1 MW reserved and 720 mWh per month in energy consumption
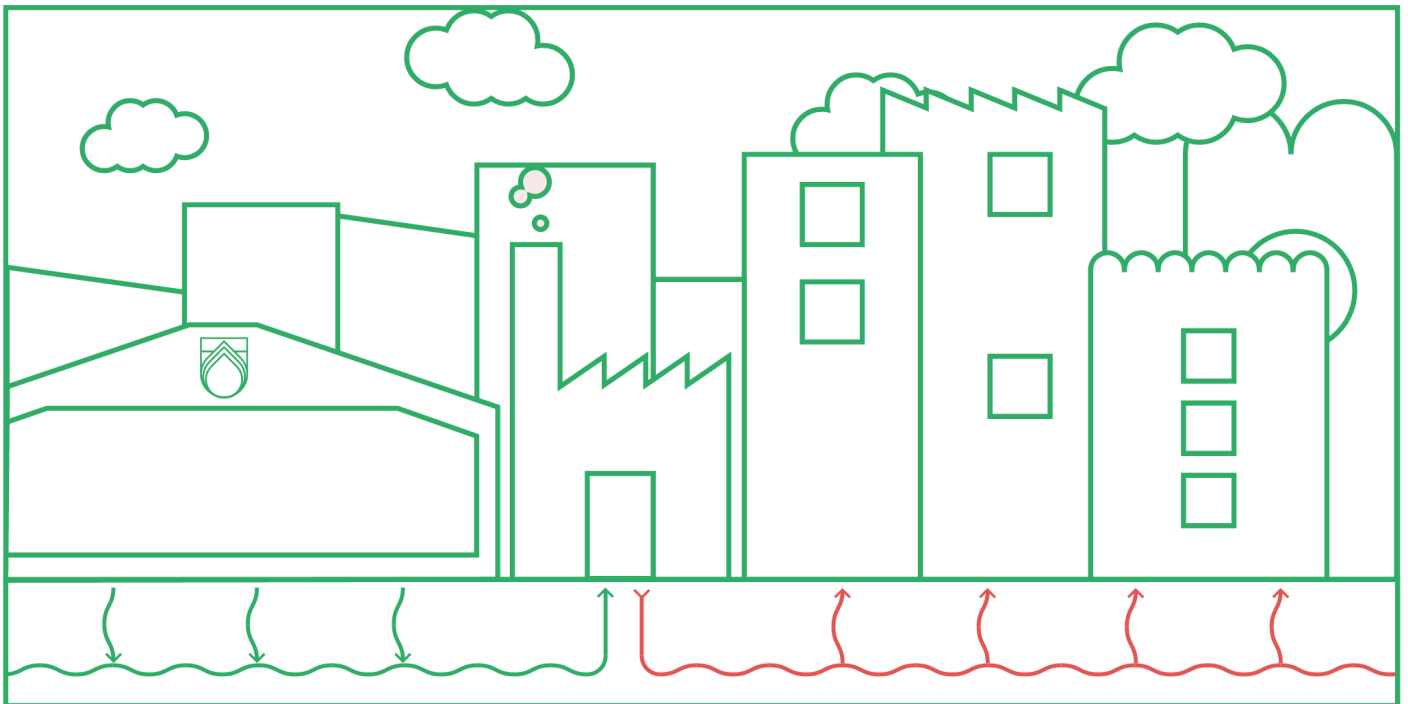
EU electricity price projections*

Sweden
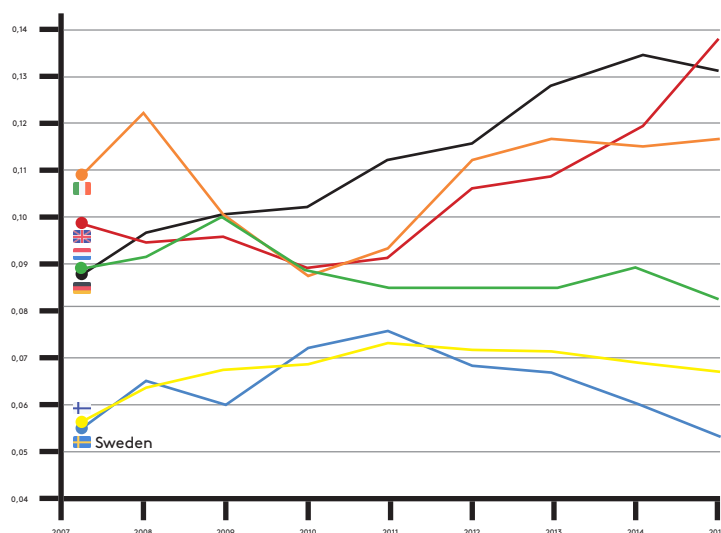
* Source: EUROSTAT bi-annual data for industrial consumers

Triple Green is an environmental certification for data centers which fulfill a set of tough requirements on renewable energy and energy efficiency. The initiative was started by Bahnhof AB.

1.

The data center must be powered by renewable energy only.

2.

Heat from the servers is collected and used for heating of nearby households.

3.

The household heating replaces other energy sources, and everyone profits in the process.