# Tallinn DC-1 Shared Data Hall

Greenergy Data Centers (GDC) is the largest and striving to be the greenest provider of colocation and connectivity services in the Baltic region. We have the will and means to invest in the highest security, availability, and connectivity standards.

**Secure**
Your physical assets are guarded by multiple layers of security, encrypted authentication protocols, and infrastructure redundancy. Our monitoring and support are available 24/7.

**Sustainable**
GDC aims to use electricity from renewable energy sources, and our data centers have excellent power usage efficiency, targeting PUE < 1.2.

**Smart**
Our purpose-built data center and services are designed by engineers for engineers with scalability in mind. As a result, we provide seamless services that exceed expectations.

**Future-proof**
We embrace innovation and build our data centers with the best technology and knowledge available.

Our customer-focused, dedicated, and certified operational team provides 24/7 on-site support and extensive operational experience to assist and support migration planning and implementation.

# About the facility

**The first purpose-built data center in Estonia:**

- Flexibly sized data rooms over three floors

- 14,500 m² facility, including managing and support space

- Campus power 31.5 MW

- Level 3 to 4 infrastructure redundancy

- Carrier and operator neutral

- Armed physical security

- AI surveillance systems throughout the facility

- Security gates equipped with roadblocks

- Armed physical security 24/7/365 on-site

- Dedicated assembly and setup rooms

- Research and development space

- Office, conference, seminar, and meeting space available to customers

- Dedicated parking spaces and electric vehicle charging stations available

- Loading area

- Warehouses for storing

## Location

# GDC is less than 15 km from Tallinn city center, in a geographically safe location and away from possibly dangerous traffic or production facilities.

**Address:**
Alajaama tee 1,
76911 Hüüru,
Harjumaa, Estonia

- Northern Europe, Estonia—cool Nordic climate

- Low environmental risks

- The data center is situated 43.5 metres above sea level

- Easily accessible for pedestrians, vehicles, and trucks

**G GREENERGY**
**DATA CENTERS**

**Tallinn**

## Shared Data Hall

# Green, secure, and easily scalable colocation services. We provide the Rittal racks, green electricity, a reliable power supply and cooling system – you install your IT systems.

- Scalable and flexible colocation data hall

- Completed colocation room has a floor area of 836 m$^2$ of which 566 m$^2$ is ready for stacking

- 42U Standard Rack 600 × 1200 × 2200 mm or 42U Premium Rack 800 × 1200 × 2200 mm

- Carrier and operator neutral routing to customer dedicated connection point

- Hot aisle containment

- AI cooling optimisation

- Dual feed redundant power supply (UPS-es, generators)

- Oxygen reduction fire prevention systems

- Multi-level access control with anti-passback system

- AI-driven security solutions

- CCTV surveillance, analytics, and forensics

- Dedicated and flexible security solutions, including cages, available upon request

- Two meet-me rooms on the floor

- Loading area

- Warehouses for storage

- 24/7/365 NOC services

- Performance and analytical reports on request

## Access control

Your assets are guarded 24/7/365 by multi-layer perimeter defence solutions, such as 2D security fencing, intelligent surveillance cameras equipped with motion sensors, thermal imaging, and forensics for fast analytics. GDC folding gate access solution and road stops are managed around the clock by security personnel.

Even if someone does manage to slip past the outer perimeter, they are stopped by additional security measures, such as access-controlled doors and mantraps with multi-factor authentication, and various AI monitoring systems.

**Greenergy Data Center has three Protection Class areas: PC1, PC2, and PC3 (highest security area).**

# PC1 – GDC

facility territory, administrative areas, and stairways

# PC2 – GDC

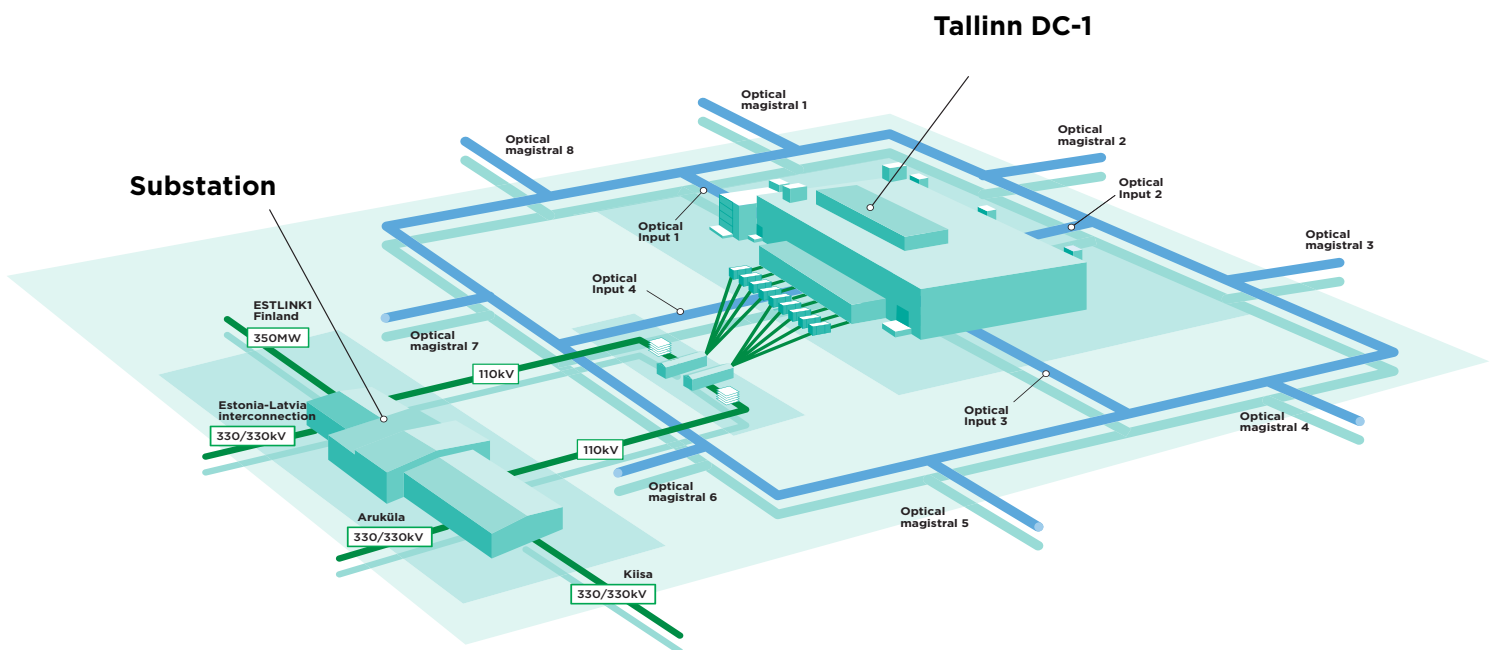support and tech rooms, loading areas, Power distribution areas

# PC3 – GDC

data rooms and vital tech rooms

# Power features

- Dual electrical power feed connection (2×110 kV AC) from Elering's (TSO) Harku substation (which has 2×330 kV AC connections, 6×110 kV AC connections, and ESTLINK-1 DC connection with Finland)

- SIEMENS end-to-end electrical infrastructure and management system

- 2×110/20 kV; 31.5 MW; 50 Hz; SIEMENS transformers

- 11×20 kV distribution SIEMENS dry transformers

- Up to 9×0.4 kV generator – SDMO 1650 kVA to 3500 kVA

- 2×100,000-liter fuel tanks with redundant fuel lines

- Redundant and modular UPS (A+B feeds) in data rooms

- Dual overhead busbar distribution system throughout the facility and into data rooms

- 3 MW allocated power for Shared Data Hall floor



**Tallinn DC-1**

**Substation**

Optical magistral 1
Optical magistral 8
Optical magistral 2
Optical Input 2
Optical magistral 3
Optical Input 1
Optical Input 4
ESTLINK1 Finland
350MW
Optical magistral 7
110kV
Estonia-Latvia interconnection
330/330kV
Optical Input 3
Optical magistral 4
Aruküla
330/330kV
110kV
Optical magistral 6
Optical magistral 5
Kiisa
330/330kV

# Cooling features

**Facility:**
- Maximum free-cooling utilisation

- Cooling systems operate with low GWP (Global Warming Potential) refrigerant

- Temperature and humidity ASHRAE recommended range for IT equipment

- Independent cooling modules with chillers, dry coolers and reserve chilled water tanks

- Redundant coolant water pipeline system which is concurrently maintainable

**Shared Data Hall:**
- AI cooling optimisation

- All CAH (Custom Air Handler) units are located outside the Shared Data Hall

- Uniform air velocity and cold aisle pressure controls

- 12×CAH dedicated units configured N+2 for each Shared Data Hall

- Variable speed technology to optimise efficiency

- Cold and hot aisle separation with monitoring and pressure control

# External connectivity options

Multiple and diverse fibre-optic routes into the GDC campus and facility.

Redundant meet-me rooms throughout the facility.

Managed cross-connection services.

## Compliance

**Systems and processes in accordance with ISO standards:**

- ISO 9001 Quality management systems

- ISO 14001 Environmental management systems

- ISO 27001 Information security management

- ISO 50001 Energy management

- EN 50600 Information technology. Data center facilities and infrastructures

- PCI DSS Payment Card Industry Data Security Standard

## Peering and meet-me rooms

- Fully optical backbone network

- Redundant optical routes

- Two meet-me rooms on the floor

- Optical cables between the whitespaces and meet-me rooms

- Optical cables between customer racks

- Optical connectivity from anywhere to anywhere inside the data center

- Fast and need-based expansion of the fibre network

## Customer Configuration Options

- Standard Rack 600 × 1200 × 2200 mm

- Premium Rack 800 × 1200 × 2200 mm

- Cage, 2 racks minimum

- Standard, Smart, or Managed PDU (16/32A) option

- Standard Transfer Switch (STS) option

- Remote Hands services

- Additional services upon request

## GDC benefits

# With us, your data has the smallest possible ecological footprint while utilising the benefits of secure large-scale data management.

- Excellent power usage efficiency, targeting PUE < 1.2

- Modular structure data center, easily scalable

- Multilayer perimeter security solutions

- Multi-level indoor security and access systems

- Accredited security protocols

- Carrier and operator neutral

- Critical infrastructure redundancy (N+1 / N+2)

- Low oxygen fire prevention system

- Customer-focused, dedicated, and certified operational team providing 24/7 on-site support

# The world is growing more and more data hungry!

We are relieving this hunger in an energy-efficient and sustainable way in the only large-scale purpose-built data center in the Baltics. With us, you benefit from the highest standards of security, availability, and connectivity.

Contact:
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