





## Aurora in brief

Since 2013, Aurora has established itself as a significant and reliable electricity distribution company. Measured by distribution volume, Aurora is Finland's third largest electricity distribution company. We distribute ca. 5 TWh of electricity per year to our large industrial customers, which is equal to ca. 6% of Finland's total electricity consumption and ca. 13% of industrial electricity consumption. Our clients include the Kilpilahti hub for circular and bio economy and Outokumpu Tornio industrial area.

High quality operations is key to Aurora's success. Safety and high network availability form the basis of everything we do. The best practices have been formed by years of experience in high voltage industrial networks and we systematically continue to maintain and develop the know-how of our personnel. In 2022, Aurora has not had any work-related accidents.

Aurora's international long-term infrastructure financing secures capital for required network development and maintenance.

### Aurora's key figures for year 2022:

**ca. 580**  
transformers

**5 TWh**  
Distributed electricity

**99,99%**  
Network availability

**>€260m**  
2014-2022 reliability and  
replacement investments

**6%**  
Of total electricity consumption  
in Finland



# CEO's recap

The year 2022 will forever be remembered for the war in Ukraine and the change in the geopolitical environment, which led to the historic decision of Finland to rapidly join NATO. The solidarity and unity of the West has fortunately remained strong despite very difficult circumstances and has even improved depending on from which part of the world you are looking at the matter.

These changes in the world order will have an impact for a long time and there will be no going back to the way things were. NATO membership is and will be very important for the small, progressive Finland and Russia's neighboring country, in order to ensure the financing of investments that are important to its future. For us infrastructure players, when we finance essential assets of society and industry with investment horizons of many decades, both country risk factors and the stability of the general political and regulatory environment are vital pre-conditions. If these are not met, international financiers will look elsewhere, which would make it difficult to achieve our ambitious green transition goals – where would we get the billions needed to secure these investments in that case? Hopefully, the new parliament takes this point seriously into consideration in its decision making.

For us, 2022 was also a year of significant changes. In the beginning of 2022, we raised a 110 million euro green financing package. In June our previous owners InfraVia Capital Partners, Pantheon Ventures and Access Capital Partners agreed to sell their shareholding in Aurora Infrastructure Oy to Equitix. The transaction was completed at the end of the year after approval from the authorities. The deal was made in the middle of a geopolitical storm, so without NATO membership in sight, Finland's stability and the predictability of the development of Aurora's business model, as well as the history and future prospects of its customers, the deal would certainly have been more difficult to close.

In addition to the important issues mentioned above, sustainability has become a key topic in all financing plans. We have noticed a clear change in this during recent years and luckily, we can enjoy the trust of markets in fulfilling our role as an enabler of the industrial green transition.

## Sustainability highlights for 2022:

- 1) The reliability of our networks was at an exceptionally high level even for us, which is the result of years of excellent and proactive work.
- 2) Zero accidents as in the past.
- 3) We allocated 80mEUR of investments to green financing for the first time.
- 4) Our employees' own assessment of their ability to work was 8.7/10.
- 5) We decided to donate a 230kW back-up power generator to Ukraine, which can for example secure a hospital's power supply even during power outages.

As a worker at Aurora, you can only look back with pride at 2022 and our shared history with the previous owners. However, new and steady winds are now ahead with Equitix, which has an investment horizon of several decades. We live in interesting times and will turn a new page in Aurora's history in 2023 as we welcome Nokia and its smart campus to be built in Oulu as our new customer.

## Tony Lindroos

CEO Aurora



# Aurora and UN Sustainable Development Goals

Aurora is committed to UN global sustainable development goals (SDG) related to sustainable infrastructure, environmental protection and code of conduct.

We acknowledge the importance of shared global sustainability goals which is why we have chosen five selected SDGs as the backbone of our sustainability work. The SDGs have been selected as the most applicable for infrastructure business and have been adopted also for our owner's other portfolio companies. Aurora's board of directors evaluates and approves the sustainability targets annually.

The contents of each SDG category and examples from our 2022 metrics are described below.



## SDG 5 Gender equality

- We ensure gender equality and equal treatment of genders
- Aurora metric: gender ratio

### Examples of 2022 metrics

- 12% of FTEs are women
- 50% of board members are women
- All those entitled to parental leave used their leave



## SDG 13 Climate action

- High availability of our networks reduces our customers' unit emissions
- We calculate and monitor Aurora's carbon footprint every year
- We recycle components removed from use
- Aurora metric: network losses, recycling-%

- Carbon footprint of operations decreased by 7% compared to last year



## SDG 8 Decent work and economic growth

- We ensure safe working environment for all workers, including our subcontractors
- We are committed to well-being of our employees
- We employ locally
- Aurora metric: job satisfaction, absence-%, training of personnel

- Safety 100%
- Absence due to illness approx. 1%
- 100% of personnel participated in trainings during the year



## SDG 9 Industry, innovation and infrastructure

- We maintain and develop reliable electricity distribution network for our customers' needs
- We assess network losses as part of our investment criteria
- Aurora metric: preventive maintenance completion-%, investments

### Examples of 2022 metrics

- Preventive maintenance completion >99%
- Investments to the network: 15,5 mEUR



## SDG 16 Peace, justice and strong institutions

- We apply code of conduct
- We maintain high level of cyber and information security
- Aurora metric: four eyes principle used, cyber security assessments

- SDG 16 targets were fully met

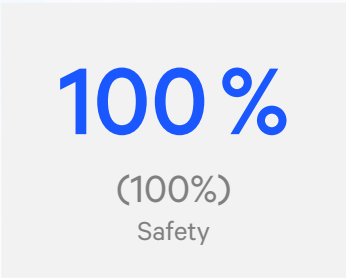


# "Safety first" is the cornerstone of our operations

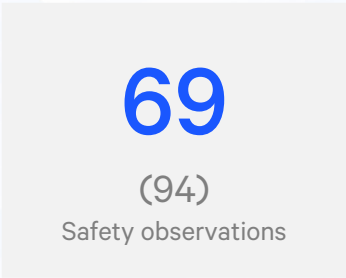
For Aurora, it is important to maintain a flexible and safe working environment each and every day. High electricity network availability means less production losses to our customers. This is our customer promise, which we have been able to maintain even during changing circumstances. Aurora co-operates with its customers to perform preventive maintenance works and component replacements during customer normal operation or customer maintenance shutdowns. Availability in Aurora's networks was even higher than in previous years, being more than 99,99% on a group level.

During 2022, neither Aurora's employees nor Aurora's contractors had safety deviations that led to work-related absences. We record all safety observations in Aurora's safety system. We regularly monitor findings and use them to improve our safety.

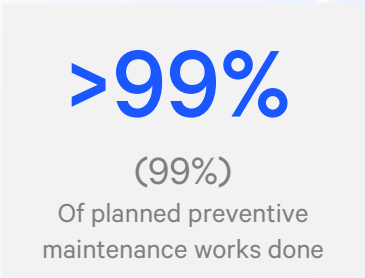
The indicators below are important for improving safety and to prevent harmful deviations. Previous year actuals are in parentheses.



No work related safety incidents



Safety observations are reviewed regularly to promote safety and well-being and to develop safety best practices



Preventive maintenance works were performed on time





# Ensuring excellent availability

With the increase in industrial electricity consumption as a result of the electrification of industrial processes, availability of the electricity network becomes an even more important necessity for operations, which also means that the electricity network assets must be renewed and developed. A reliable electricity network ensures that the operations of customers are not interrupted due to an electrical failure.

In the past year of 2022, Aurora Tornio completed a new main 110kV GIS switchgear in the Tornio industrial area, which significantly improves the connection between the Outokumpu industrial site and the national grid. With the system, a new 110 kV connection line from the Sellee substation could be brought to the industrial area, which significantly improves the on-site operational reliability. Now electricity loads can be distributed more efficiently in the area and there are more connection options also during a disturbance or maintenance shutdown.

In association with the investment into the new 110kV GIS system, a new control and maintenance building was completed, providing enhanced conditions for efficient and safe operation of the network, improving also network monitoring.

Aurora’s cumulative investements in electricity networks 2014-2022 (Meur)



## The impact of responsible investments for the network and the community

Aurora’s operations have strong impact to local employment. We employ hundreds of workers each year. During 2022 we invested ca. 15,5M€ and had 80 subcontractor companies working in our investment projects.

Suppliers must follow Aurora’s operational guidelines, and that is why we have developed our responsible procurement even further. At the end of 2021, we conducted a sustainability survey for our suppliers. By February 2022, all major suppliers had confirmed compliance with Aurora responsibility requirements. Aurora’s procurement responsibility requirements can be found on our website: [Responsibility requirements - Aurora Infrastructure Oy](#)

# Green financing as part of implementation of investments

The green transition and decarbonization of industrial activity will require significant capital and know-how. In 2021, Aurora implemented a Green Finance Framework to support investments that contribute to the transition to a greener electricity system. Aurora's Green Finance Framework and performance for year 2022 has been audited by a third party. At the beginning of 2022, we completed a 110MEUR refinancing of debt.

Green financing is an important part of Aurora's strategy. The purpose of the new facilities is to finance or refinance investments in new or existing eligible green projects, as defined under Aurora's Green Finance Framework, such as projects that enable the connection of new production or consumption to a low carbon grid, reduce network losses or enable smart solutions that save energy and the environment. At Aurora, we support our customers on this journey as a specialized electricity network expert, and thanks to the green financing package, we have ensured flexibility and financial ability for future green investments.

**"This is once again a milestone for us to be amongst the first of our peers to raise such green financing and it also proves the belief markets have in Aurora and its role as a key enabler of the green transition."**

– Tony Lindroos, CEO Aurora

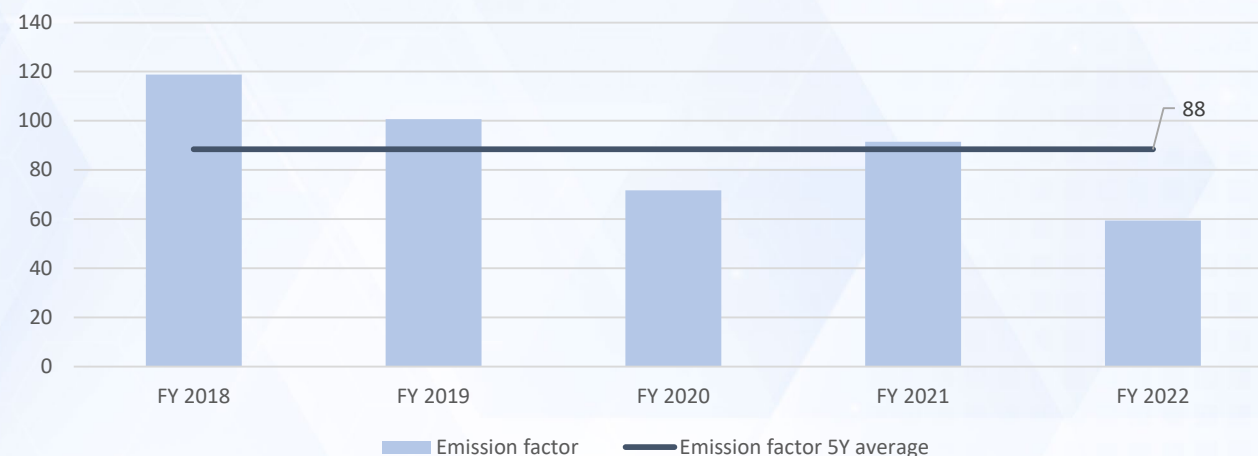
Aurora's electricity network investments connect our customers to the low carbon network of Finland (emission factor 5-year average 88 gCO<sub>2</sub>/kWh) and enable process improvements required by the green transition. In addition, the investments have reduced electricity losses and improved the reliability of the network

## 80 m€

Allocated to green financing in  
2022



Emission factor for electricity consumed in Finland (gCO<sub>2</sub>/kWh)





“Electricity delivered to our customers and produced with renewable energy sources enables reduction of emissions despite the increase in energy demand”



# Reliable electricity networks enable the green transition

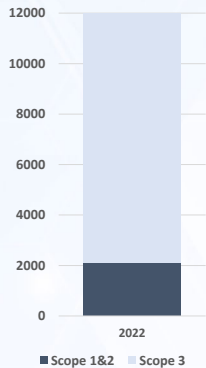
The green transition of industry imposes requirements on the electricity grid systems. Emission reductions and electrification of industry are based on renewable electricity, requiring sizable electricity grid investments at industrial sites and connecting renewable energy to meet the growing demand.

Aurora’s smart network solutions play an important role in reducing the carbon footprint of industrial sites. Electrifying industrial processes often means increasing or optimizing grid capacity and analyzing customer’s consumption profile. Careful planning of network solutions is important, because choices made often have significant impact to network availability and electricity losses.

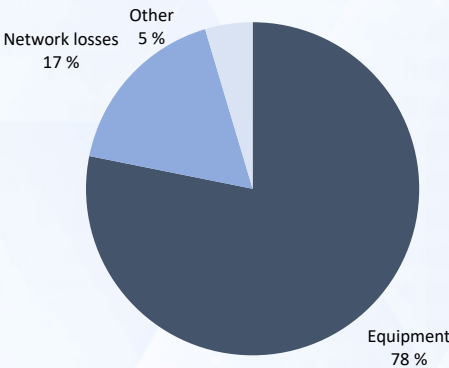
Aurora’s carbon footprint consists mostly of network investments. Also, network losses are considerable, which Aurora managed to significantly reduce from 2021. Our responsible customers are committed to increasing the share of renewable energy in their electricity procurement. For our part, we always consider network losses as part of technology choices.

## Our carbon footprint in 2022:

CO2 Emissions (tCO2e)



Emission By Category (tCO2e)



**SF6 gas:** SF6 is an insulating and cooling gas used in various types of electrical components. Aurora uses SF6 in network’s switchgears and breakers. SF6 is a green house gas and harmful to environment if emitted in atmosphere. Aurora had no SF6 leaks.



# We care about our employees

There were 26 Aurora employees at the end of year 2022, of which 20 worked in network operations and maintenance.



All Aurora employees are entitled to **MyAurora** well-being plan. Idea of the plan is to promote health, activity and to facilitate everyday life, allowing also more freedom to employees to select areas of interest.



Aurora has a **formalized charter in place** promoting gender equality in recruitments and promotions, family friendly work arrangements, gender neutral pay and fair treatment of employees and stakeholders irrespective of background or age.



In 2022, **Group-wide trainings** included MS Teams training and cyber security training. In addition, our employees also participated in i.e., work community coaching, electrical works and project management training.



In 2022, we completed Tornio's new, modern office space. The health and well-being of the employees is important to Aurora, and therefore the working conditions are also constantly being improved.

8.7

Employee well-being score  
out of 10





# We support those in need

*At Aurora we annually support non-profit organizations chosen by the personnel from each site.*

## Punainen Risti

### Red Cross – all offices

In the past year, Ukraine and Ukrainians have often been in the thoughts of the people of Aurora. Thus, most of the donations in 2022 have been directed through the Red Cross Relief Fund to support the victims of the humanitarian crisis in Ukraine.



### Generator donation - Kilpilahti

In December, Aurora donated a back-up power generator to Ukraine. The 230 kW diesel generator installed in a transport container can generate electricity for example for a hospital during a power outage.

### Scholarships – Kilpilahti

As traditionally, Aurora supported scholarships to Porvoo high schools Linnakosken Lukio and Borgå gymnasium. With the scholarships, Aurora wants to encourage young people to study natural sciences (math, physics, chemistry) and electrical engineering.



### Rescue helicopter Aslak - Tornio

Aslak is a privately funded initiative in Northern Finland extinguishing, searching and rescuing in case of emergency in sparsely populated Lapland. Aurora has been supporting Aslak since 2015.





Aurora Infrastructure Oy  
Vuoritontuntie 22, 02200 Espoo  
+358 20 764 1088