



# Aurora Sustainable Development Goals Report 2020







## Aurora – Smart electricity distribution as a service

Since late 2013 Aurora has operated as a reliable electricity grid partner. Measured by distribution volume, Aurora is Finland's fourth largest electricity distribution company. We distribute ca. 5TWh of electricity per year to our large industrial customers, which is equal to ca. 6% of Finland's total electricity consumption and ca. 14% of industrial electricity consumption. Our clients include the Kilpilahti petrochemical industrial area 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. 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.

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

### Aurora's key figures for year 2020:

Distributed electricity

**5 TWh**

2014-2020 reliability and replacement investments

**€233m**

Network availability

**99,99%**

**6%**

of total electricity  
consumption in Finland

# Aurora and UN sustainable development goals

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

During 2020, Aurora prepared a roadmap, by which it follows sustainable development goals together with Aurora’s board of directors. The board evaluates and approves sustainability targets. The SDG goals have been selected as the most applicable for infrastructure business and have been adopted also for our owner’s other portfolio companies.



### Gender equality

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



### 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-%



### 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



### 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



### 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





*From our subcontractor: “We are really satisfied with the preventive measures taken by Aurora to combat Covid 19. They ensured that we had a safe time at the site by providing us protective materials such as face shields, masks, sanitizers and gloves in order to minimize and prevent the spread of Covid 19. Everyone here followed the health ministry’s recommendation of social distancing but also made sure that we had the required technical support during testing and commissioning.”*

## Safety first is the cornerstone of our operations

COVID-19 restrictions in spring 2020 led to the re-scheduling of Kilpilahti refinery maintenance shutdown. Re-scheduling this major shutdown, held every 5 years, required co-operation and flexibility between companies, also internationally.

For Aurora, it is important to maintain flexible and safe working practices 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 upkeep 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.

Aurora took early action to protect its personnel and operations from COVID-19. Those actions worked as planned and in addition to Aurora’s own personnel, also our subcontractors stayed safe and healthy and were able to carry on working for us under special arrangements. Remote work arrangements were adopted quickly by those of us whose tasks allowed this.

During 2020, there were 0 safety incidents leading to absence for Aurora. There was one safety incident leading to absence for our subcontractors. All safety observations are logged into Aurora’s HSEQ system and regularly reviewed to promote safety and well-being.

100 %

Safety

No safety incidents for Aurora’s personnel

46

safety observations

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

99%

of planned preventive maintenance works done

Preventive maintenance works were performed despite of COVID-19 related precautionary arrangements.



# We have invested over 230M€ in network reliability during 2014-2020

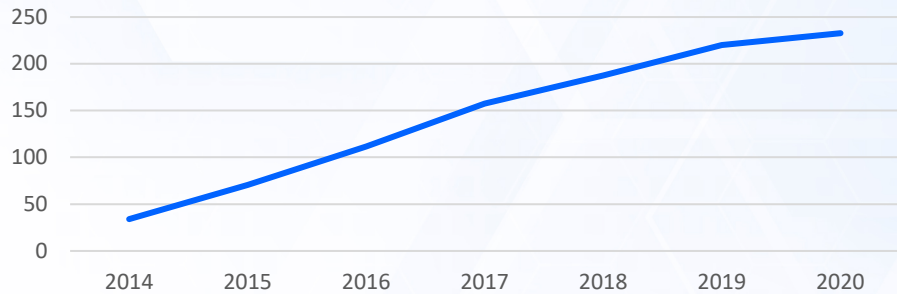
Network reliability is essential in being able to meet the production requirements of our customers now and in the future. Aurora works proactively with customers when planning and evaluating investments. Aurora considers among others network structure, customer's future needs and asset life-cycle efficiency.

Industrial electrification driven by carbon neutrality targets are foreseen to require substantial network investments at industrial sites in the near to mid term.

## Strong local presence

Aurora's operations have strong impact to local employment. We work with hundreds of contractors each year. During 2020 we invested ca. 13M€ and had 70 subcontractor companies working in our investment projects. Only a small amount of planned investment works were moved forward due to the re-scheduling of our customers' maintenance shutdowns. This was enabled by good planning, project management and strong co-operation with suppliers.

Aurora's cumulative investments in electricity network 2014-2020 (Meur)







### Electrification in Finnish industrial sites

2X

Based on carbon footprint reduction road map by Finnish Technology Association, industrial electricity consumption can **double by year 2040** as a result of expansion of production and process electrification.

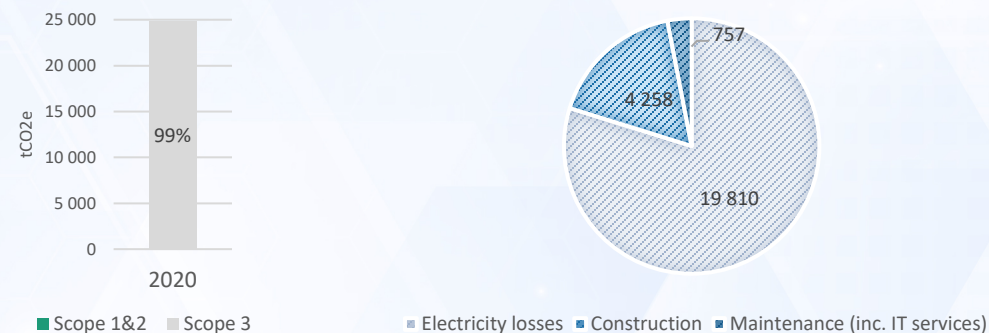
According to Finnish Industrial Energy Association, Finnish electricity production emissions **reduced by 24% during 2020**. During last ten years emissions have reduced to less than a quarter.

## Electrification of industrial processes contributing significantly to carbon neutrality targets

Aurora's smart network solutions play an important role in reducing 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 lifetime of 40-50 years and have significant impact to industrial site competitiveness.

The majority of Aurora's own carbon footprint consists of network losses. The biggest driver of network losses is our customers' consumption profile and the source of electricity impacts the carbon footprint of those losses. Our customers have committed to increasing substantially the share of renewable energy sources in their electricity mix. For Aurora, minimizing network losses has been for many years a selection criteria of new equipment.

### Aurora's carbon footprint 2020



### SF6 gas

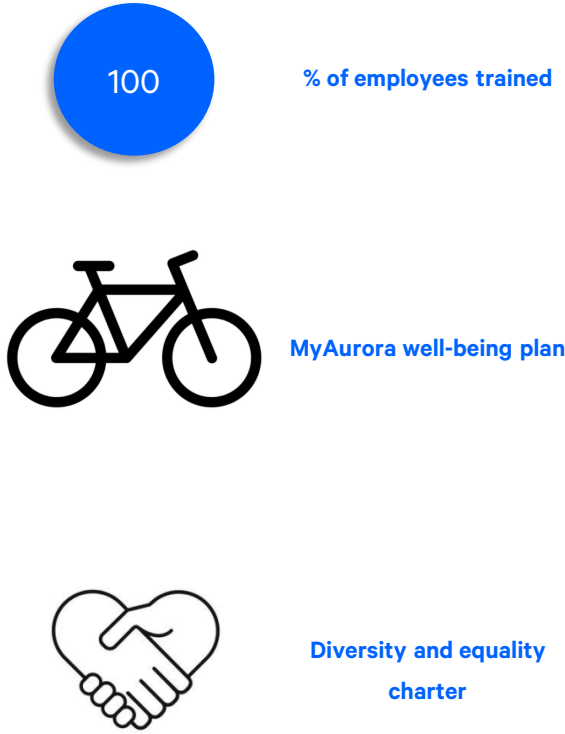
SF6 is an insulating and cooling gas used in various types of electrical components. Aurora uses SF6 in network's switchgears and breakers. SF6 is a green house gas and harmful to environment if emitted in atmosphere. Aurora has nearly non-existent SF6 leaks and SF6 level is monitored and reported regularly.

Disclaimer: This carbon assessment is not certified and was performed by Aurora on a high-level basis, with non-audited operational reported KPIs.

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# We care about our employees



Life-cycle asset management training a key focus area for the majority of our personnel. In 2020 we held four separate 3h remote training sessions and group wide development work is well underway also following implementation of data warehouse facilitating analysis and automated reporting.

All Aurora employees entitled to MyAurora well-being plan. Idea of the plan is to promote health, activity and facilitate everyday life, allowing also more freedom to employees to select areas of interest. For 2021 corporate bicycle lease plan has been made available to employees upon their request.

Aurora has a formalised 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 backgrounds or age.

## Our employees say:

- "Small and agile organisation – no non-sense bureaucracy"
- "Versatile and diverse work"
- "Environment fosters trust, independence and professional freedom"

# We support local community initiatives

Every year we support local initiatives in Aurora's three regions. Supported initiatives are often selected by Aurora's personnel. In year 2020 we increased and expedited our support due to COVID-19



We decided to donate money reserved for Christmas presents to **service dogs of The Finnish Association of People with Physical Disabilities** and to **Porvoo elderly care service**



## We cycled against climate change

Aurora participated in "Ketjureaktio" charity initiative. We donated 1 € per every 25 kilometres cycled for **Red Cross climate campaign**. Aurora's 10 person team cycled in total 12 418,10 kilometres, equalling CO2 savings of 2 172 kg.

Aurora's personnel in Tornio selected **Arjen Tuki Ry**, and **rescue helicopter Aslak** as support initiatives in 2020



Personnel in Espoo chose three youth organization initiatives: **Pelastakaa lapset Espoo Ry**, **FC Espoo** and **Hope Ry**



**Pelastakaa Lapset - Rädda Barnen**  
Save the Children

Personnel in Kilpilahti decided to support **Alva-talo** and to deliver **food help gift cards** especially to low income families. Aurora Kilpilahti also continued granting **stipends** in local schools.





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