

# Green ICT

ESTONIAN GOVERNMENT HAS SET A HIGHLY  
AMBITIONOUS GOAL TO PRODUCE ALL ENERGY CONSUMED  
IN ESTONIA USING RENEWABLE SOURCES BY 2030.



By 2050, Estonia will be a competitive, climate-neutral country with a knowledge-based society and a high-quality, species-rich living environment, willing and able to reduce the adverse effects of climate change while making the best use of its positive aspects.

Furthermore, the Estonian government has set a goal that by 2030 all electricity consumed in Estonia will come from renewable energy sources.

Estonia has ambition and measures to make our economy greener. Manufacturing companies receive support for compiling a green road maps and digitising production processes. A €100million Green Fund will boost the development of products and services of innovative green technology companies. And last but not least, Estonia, as a startup country, has a friendly business environment supporting the cleantech entrepreneurs. Although the link between digital and green transitions is very strong, it is important to highlight two aspects — on one hand, digital solutions enable us to use resources more efficiently, thereby supporting environmental goals. On the other hand, digital solutions themselves also have an environmental footprint that needs to be reduced.

## Evaluation of the digital government's environmental footprint

Estonian public sector is a global pathfinder of digitalisation, but it comes with a cost — digitalisation has an environmental impact we cannot ignore. To understand the scale of it, the Estonian Ministry of Economic Affairs and Communications in cooperation with Ernst&Young carried out a one-of-a-kind study.

The analysis provided insights into the environmental footprint of the digital government and ways of increasing the climate and environment friendliness of the Estonian digital state.

For more information: [Analysis of the current status of and possibilities regarding green digital government](#)

## Cleantech Estonia

Cleantech iEstonia is the organization uniting, supporting and representing Estonian clean innovation companies. With a global network of partners, they help Estonian cleantech players maximize their environmental handprint by scaling their solutions beyond our borders.

The cleantech sector, comprised of sustainable products, services and processes in energy, water, transportation, agriculture and manufacturing, including smart city solutions, advanced materials, smart grids, water treatment, efficient energy storage and distributed energy systems.

Estonian cleantech startups raised 197 million euros in the first 9 months of 2023, representing a 13% increase compared to the full year of 2022. This strong growth trend shows the growing importance of the sector in Estonia. Additionally, the number of cleantech employees has slightly increased compared to 2022 (0,6%).

For more information: [cleantechestonia.ee](http://cleantechestonia.ee)

## X-Road's carbon footprint

Nordic Institute for Interoperability Solutions (NIIS) has set a long-term goal to make X-Road the most sustainable data exchange solution. NIIS commissioned research to assess the current emissions profile across X-Road® operations and services to better understand the direct and tangible environmental impacts of using the X-Road software. In Estonia, public organisations have their information systems to process information relevant to the state and its citizens to provide public services. These often run on different systems that suit the function of the organisation. X-Road is a distributed information exchange platform that allows for these different systems to communicate across the governmental sector.

For more information: [niis.org](http://niis.org)

## Green Tiger

Green Tiger is a multidisciplinary cooperation platform aiming to create a balanced economic model for Estonia and the world. Green Tiger has partners across four strands: entrepreneurs, individuals, the public sector, and the civic sector.

For more information: [rohetiiger.ee/en](http://rohetiiger.ee/en)

## Facts and figures

- Land Register. The paper-free system has reduced the processing time for land transactions from up to 3 months to as little as 8 days.
- E-education solutions. Maximum access to education in all living areas. 95% smaller environmental footprint due to paper-free management of schools.
- Border queue management system. Drops average border waiting time from 60h to 1.5h. Reduces CO2 by 16 tons per 10 000 trucks.
- E-court system. Shortest backlog of ongoing court cases. Zero paper printed to run a court case.
- Autonomous passenger transportation decreases the dependency on personal vehicles and human fallibility.