

LAPPEENRANTA

2021 | Kati Korhonen


LAPPEENRANTA
THE CLIMATE CAPITAL OF FINLAND





FOUNDED IN
1649

73.000
INHABITANTS

275
KILOMETERS
OF CYCLE TRACKS

THE CITY OF
GREEN
ENERGY

INTERNATIONAL
AIRPORT

1.000
KILOMETERS
OF SAIMAA SHORELINE

**GROWTH AND
EDUCATION:**
ENCOURAGING AND
SUPPORTING PEOPLE AND
FUTURE BUSINESSES

LPR2033

**WE DARE
WE DO
WE SUCCEED**

#lappeenranta

**CLEAN AND
SUSTAINABLE:**
PUSHING ENERGY AND
ENVIRONMENTAL
REQUIREMENTS FOR URBAN
DEVELOPMENT

SAIMAA-SPIRIT:
WELCOME TO JOIN THE
CO-CREATION OR UNWIND
YOUR WAY


LAPPEENRANTA
STRATEGY 2033

SUSTAINABLE DEVELOPMENT

in Lappeenranta

- Greenreality Lappeenranta is part of the city's strategy. It brings together the city, educational institutions, businesses and residents to head towards a more sustainable future
- EUROPE'S GREENEST CITY finalist twice (EGLA – European Green Leaf Award)
- The WWF has twice appointed Lappeenranta the Climate capital of Finland
- The first ecoenergy city in the world in 2017
- Carbon neutral city in 2030
- 100% of waste recycled
- Greenhouse gas emissions have been halved during 1990–2017
- Lappeenranta and its neighboring municipalities already produce a massive 90% of their energy from renewable sources
- Over 100 wetlands for Saimaa
- With Kaukaan Voima's biomass power plant, more than 70% of district heat is produced carbon dioxide-free
- LUT University is Finland's largest university in the energy sector and Lappeenranta has the greenest campus in Finland: www.greencampus.fi

100%
OF WASTE
RECYCLED



EUROPEAN GREEN LEAF AWARD 2021

- Lappeenranta seeks the title of ONE OF THE EUROPE'S GREENEST CITIES in the EU Commission's initiative
- The purpose of the competition is to share Lappeenranta's know-how and gain visibility in the world

SUBJECT MATTER OF THE APPLICATION:

- Climate and energy
- Waste and the circular economy
- Sustainable transport
- Nature and biodiversity
- Water
- Air quality and noise

GREEN LEAF WINNING IS AN INVESTMENT IN THE FUTURE

- Raise interest in the city
- Increase internationality
- Attract young people
- Bring vitality and new jobs

CITY OF LAPPEENRANTA



GREENREALITY.FI

WHY LAPPEENRANTA is a Green Leaf winner?

THE FIRST
ECOENERGY CITY

100%
OF ELECTRICITY
USED BY CITY
IS CARBON
DIOXIDE-FREE

70%
OF DISTRICT
HEATING
PROCEDED
CARBON DIOXIDE -FREE

SUSTAINABLE DEVELOPMENT
TEACHING TO
3000
CHILDREN AND YOUTH
IN LAPPEENRANTA
JUNIOR UNIVERSITY
ANNUALLY

2000
ENERGY AND
ENVIRONMENTAL
JOBS

OVER 100
WETLANDS
FOR SAIMAA

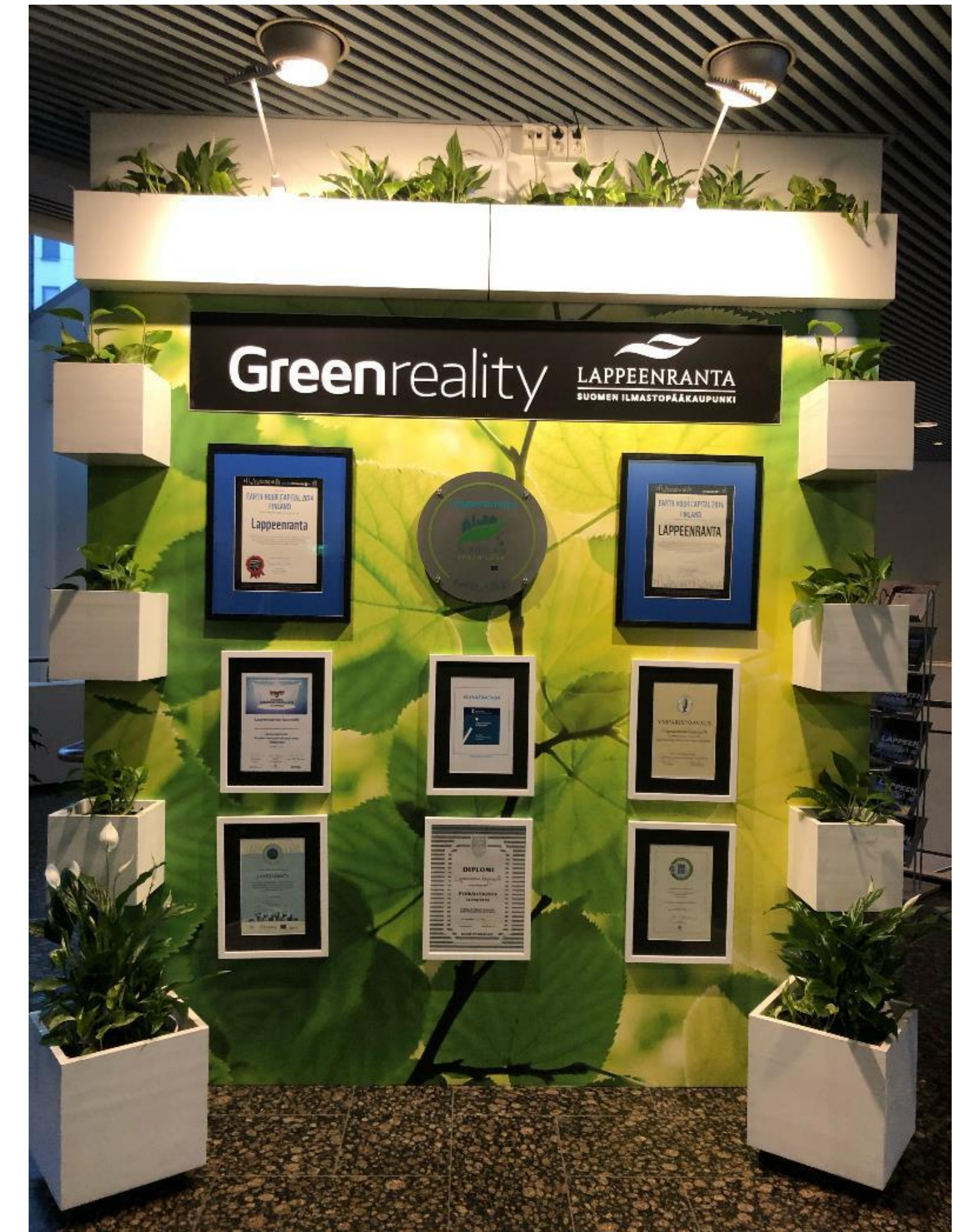
2009–2017
CARBON DIOXIDE EMISSIONS
REDUCED BY
46%

CITY ACQUIRES
SOLELY
BIOGAS OR
ELECTRIC CARS
FROM 2017
ONWARD

100%
OF WASTE
RECYCLED

What is the Target of the year 2021?

- The City Strategy has been achieved
- The best practises will be used all over Europe
 - Junior University - concept
 - Greenreality Homes and companies responsibility actions are known
 - The City of Lappeenranta best practises (car sharing, virtual power plant and others)
- Lappeenranta is known as a Green City in Europe
- The business solutions developed at Lappeenranta are used globally
 - Increasing employment at energy- and environment sector
- Cooperation with the Green Capital Lahti has increased
- New Green investments
- Greenhouse Gas emissions are decreased
- An Excellent and Positive Year for citizens and stakeholders



The Green Wall at City Hall

Where to find our actions and events?

Internet & Social media

www.greenreality.fi/en
www.lappeenranta.fi

Green Leaf events



Maailman Vesipäivä ja webinaari
22.3.2021 klo 17.30

Begins 22.3.2021 17:30
 Virtual event



Ilmastokahvila 25.3.2021

Begins 25.3.2021 17:00
 Greenreality, Villimiehenkatu 1, 53100
Lappeenranta



Earth Hour 2021

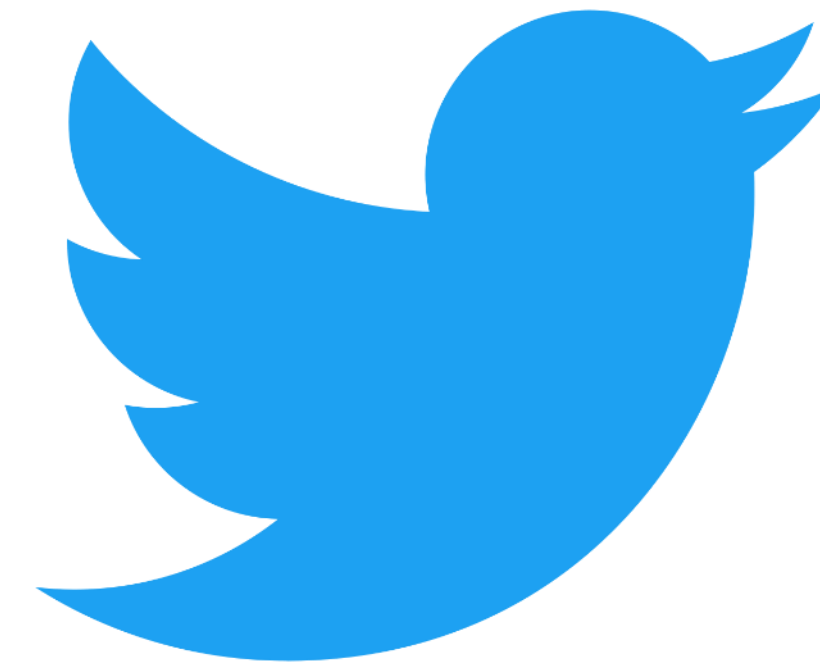
Begins 27.3.2021 20:30
 Virtual event



Follow us for more information



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@Lappeenrantafi



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@LappeenrantaFI

#EUGreenLeaf
#Greenreality
#Lappeenranta



@GreenrealityLappeenranta
@lappeenranta

GREEN AND URBAN living environment

- In Lappeenranta, residents, entrepreneurs and decisionmakers work in close interaction
- Thematic Green Horizon master plan approaches the city from the perspectives of clean technology, green infrastructure and sustainable mobility
- Due to the functional and cosy city structure, you can combine an urban lifestyle with living close to beautiful Lake Saimaa and nature
- St. Mary's Church, the Kasino restaurant, Lappeenranta Spa, the city bay and the centre of town form a unique historic experience
- Urban Infra Revolution (UIR) 3D printed building elements replace cement

**10.000
LINDENS
IN THE CENTRE
AND SHORELINE
OF THE CITY**



A photograph of a young couple hiking on a dirt path through a forest. The woman is in the foreground, wearing a beige knit hat with a pom-pom, a brown scarf, and a dark jacket. The man is behind her, wearing a dark beanie and a dark jacket. They are both wearing brown hiking boots. The forest has tall, thin trees and a large, moss-covered log on the right side. The lighting is soft, suggesting an overcast day.

GREEN

lifestyle

Greenreality Homes and Companies concept

- The concept that helps families and companies to work towards sustainable life, production and services
- The concept is being taken to schools, with pupils taking it home to their families and to local companies
- The concept is connected to the LUT Junior University concept

We build the sustainable tomorrow together with citizens, communities and companies.



Greenreality Homes activities

8th graders

- All the 8th graders have a *Clean energy and sustainable living* multidisciplinary learning course in Junior University studies
- The course includes a Greenreality Home project in which pupils calculate the carbon footprint of their own household and consider together with their families how to reduce it
 - The learning course has been included as part of the schools' curriculum in Lappeenranta
 - Greenreality Homes concept reaches every 8th grader and their families every year

Uniori.fi

Junior University



Greenreality Homes activate volunteer homes

1) We encourage citizens to move towards sustainable living

- Newsletter
- Facebook group
- Website (www.greenreality.fi/asukkaat/greenreality-kodit)
 - Guidelines for calculating carbon footprint
 - Tips for sustainable living
 - Families sharing their solutions to other citizens
 - In 2019 a test period in sustainable living (46 homes)

2) Now in rural areas also

- Range: whole South Karelia region

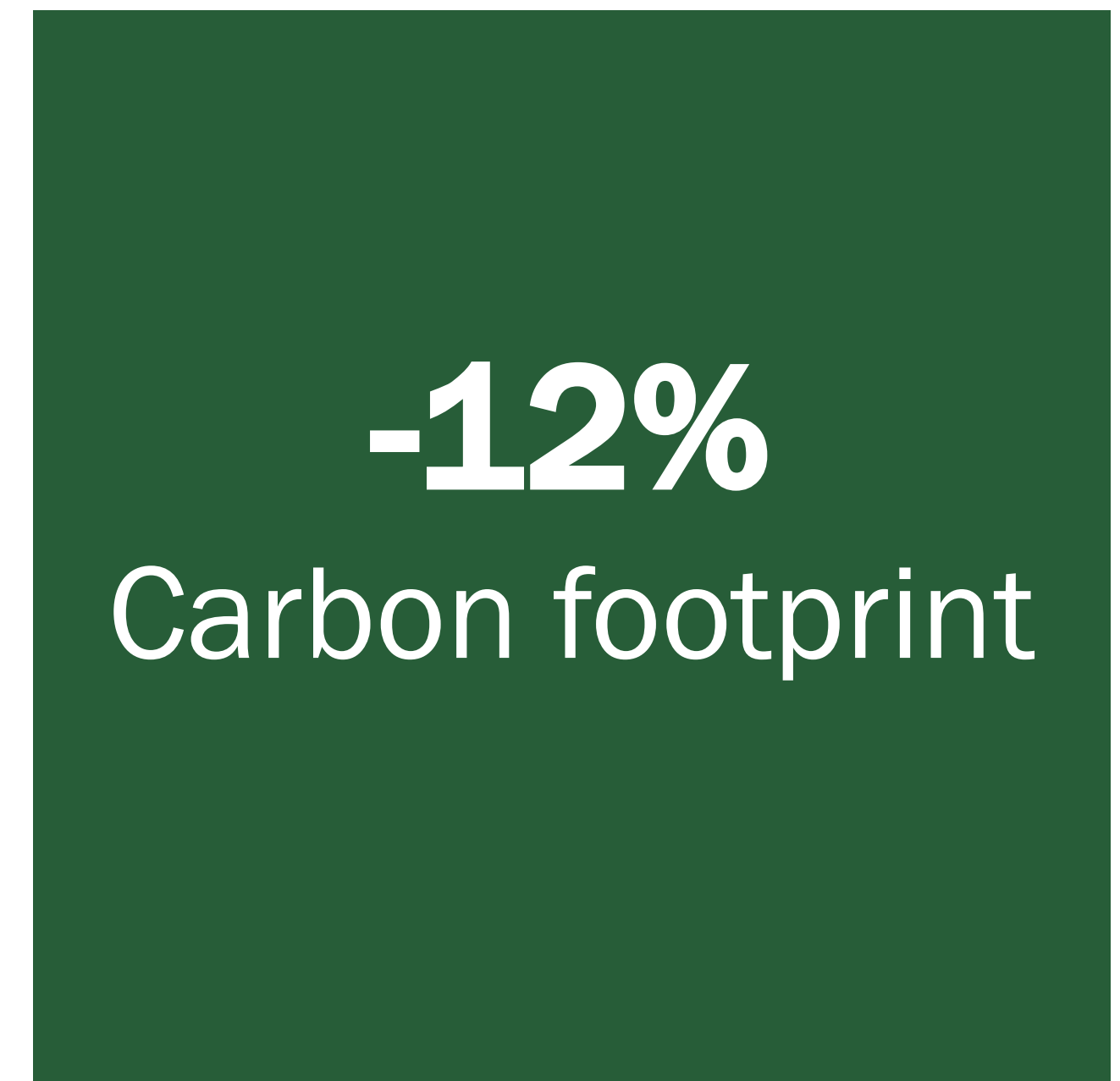
Sustainable living test period

- 46 homes, 1 month test period, 2019
 - Carbon footprints for the households were calculated
 - A starting workshop where households set roadmaps towards lower footprint and picked the actions for the test period and action for a longer period of time
 - During the test period, households tried out actions they had chosen
 - In addition, households experimented with goods and services that support sustainable living provided by 12 company partners
 - Workshop → results and the follow-up



Results of the test period

- Households managed to reduce the average carbon footprint **-12 %**, from 6,7 to 5,9 tons CO₂e/year (the reduction ranged from 0,5 % to 25 %)
- The actions planned until the year 2030 would decrease annual emissions of the participants by **46 %** - to **3,45 tons**



Results of the test period

- The most popular things selected to test period were related to sustainable eating and reducing unnecessary consumption
- In addition, many wanted to pay attention to water consumption, room temperature at home and to every-day mobility
- Five of the households got an air source heat pump and one household solar panels installed on their house during the test period

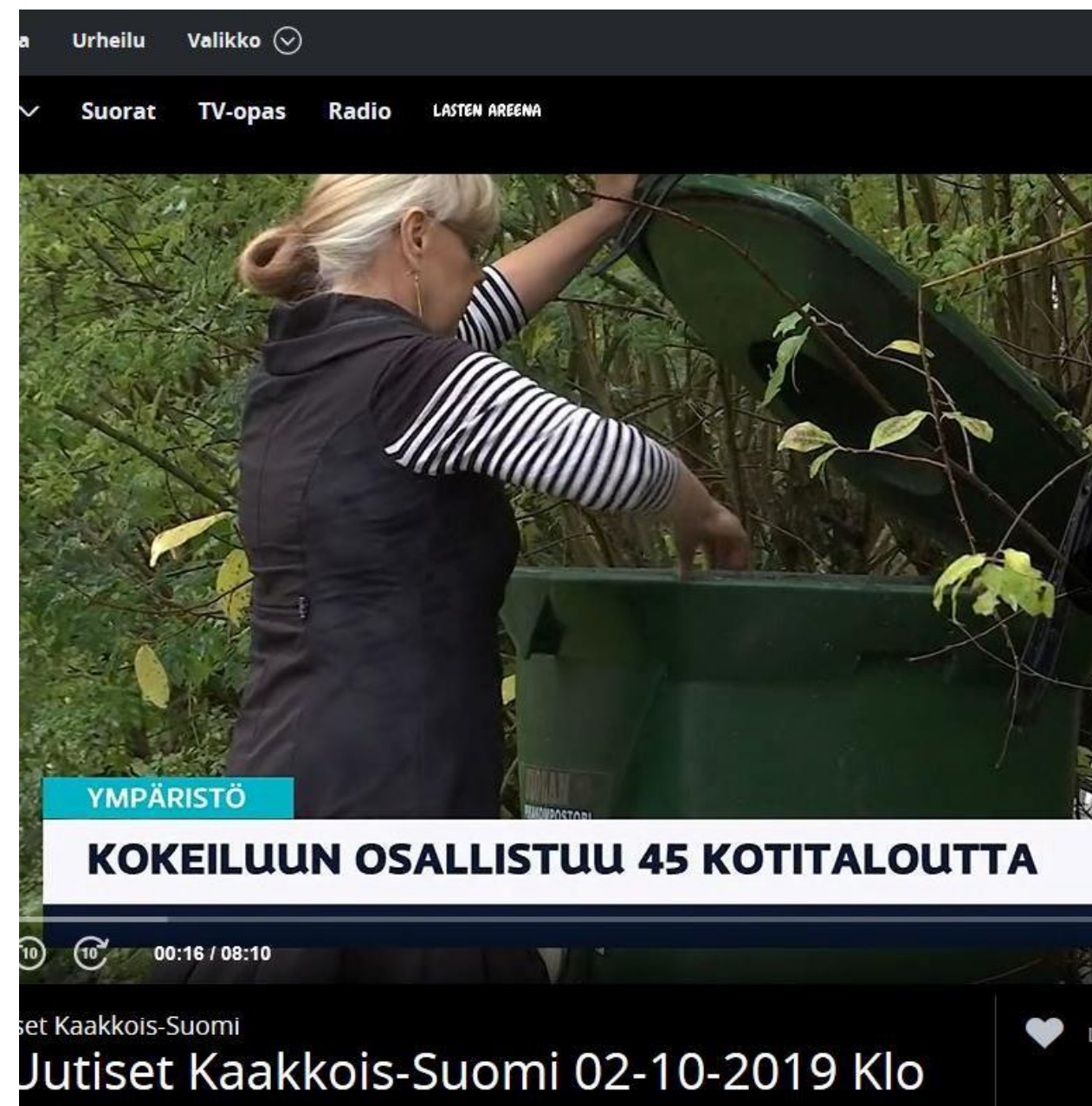
Eating
Consumption
Mobility
Heating



Kaikki eivät ajattele vain ilmastonmuutosta – kestävä arki voi syntyä halusta säästää rahaa: "Näkyvä hinnoissa, jos ihmiset saadaan tukemaan asioita"

Kestävillä arjen valinnoilla voi ohjata sitä, mitä oman lähikaupan hyllystä löytyy ja kuinka paljon rahaa säästyy.

Hiihijalanjälki 6.10.2019 klo 16.52



Lauantai 21. syyskuuta 2019 ETEL

Ilmastotalkoot alkavat Hakalissa

LAPPEENRANTA | Tiia-Lotta Pekkasen ja Tommi Kalloksen perhe testaa kuukauden ajan estävää elämäntapaa edistäviä palveluita. Kokemuksista saadaan vinkkejä muillekin.

ANU KILJUNEN

...suus oppia lisää ympäristöä säästävistä elämäntavasta.

PEKKASEN JA KALLOSEN kotonaan Hakalissa on muna vihreä Perhe osalliseen kokeiluateriaalijalan-asiantuntijoi-

...kalissa tarvit- mukaan ke- stanut perhet- on otettu va- aiemminkin. teet sähköso- äksi, emme- i kovin isossa canen kertoo. ttaa vastaan. uu mahdoli-

LAPPEENRANNAN Greenreality- kodit -toiminta etsi kokeilujaksolle kaikenkokoisia ja erilaisia asumis- muotoja edustavia kotitalouksia. Pekkasen ja Kalloksen kolmihenki- sen perheen lisäksi mukana on se- kä yksinasuja että lapsiperheitä omakoti- ja kerrostaloista.

Syyskuun alussa järjestetyssä aloitustilaisuudessa etsittiin kullekin kotitaloudelle sopivia keinoja hiih- jalanjäljen pienentämiseksi. Osal- listajat saivat poimia tietkartalleen asioita, joita he haluavat testata ko- keilujaksun aikana.

Kokeiltavana on yhteiskäyttöau- topalvelun ja sähköpyörän kalta- sia kestäviä ja edullisia liikumis- tapoja, sekä kauppakassi- ja mui- ta kotinkuljetuspalveluita. Ilmas-

...vään kulutta voja ja palve ti saatavilla.

TOMMI KAI kokeilukuu- ruusta ja l mahdollista- mioon ilman kimistä? Suhde mat- taa eniten Ti- kulapsiperhe- tellä paikoit- tiaan Untan- ilmalla fiikki leen kilmost -On iso jt- sesta pitää lu

Tommi Kallonen ja kaksivuotias Untamo katsovat kotiaan tuorein sil- min kuukauden kestävä Greenreality-kokeilun aikana. Moni arkinen asia voidaan ehkä tehdä ympäristöä säästien.

toystävällistä ruokavaliota voidaan puolestaan edistää esimerkiksi yli- jäämuruokien hyväksikäytöllä. Ko- din energiatehokkuuteen ja kestä-

Etelä-Saima. Pekkasen ja kokeilukuu-



Greenreality-partner companies

- Mainly small and medium sized companies in city center of Lappeenranta, but also other suitable companies and organizations, for example associations.
- Personal environmental objectives are planned to all partner companies, and companies try to implement objectives within approximately one year.
- Monitoring how the implementation is proceeding is organized with interim interview and final interview.
- Also this concept is linked with Junior University
- Students from High school are doing the interviews and help companies to determine objectives as part of optional Sustainable business course

Personal
goals

Greenreality partners

Each of our Greenreality corporate partners is committed to becoming more environmentally friendly in their own way.



Environmental values near and far

Toivon Ikkuna maailmalle



Greener business with reused and recycled materials

Pyöröpuikko



Less plastic

Hautaustoimisto ja Kukkakauppa Tolvanen



An eco-friendly café by the market square

Aleksanteri Oy / Konditoria Aleksandra



A more ecological lunch café through material efficiency

El'Si



More efficient waste sorting and communication with customers

Teerenpeli

Benefits for partner company

- **Counseling and guidance** for companies to formation of objectives and implementation.
- Companies will get framed **environmental commitment** as acknowledgment of partnership. Objectives are written in the commitment.
- **Visibility** in Greenreality website and social media channels.
- Possibility to make **economical savings** when implementing objectives (for example savings in use of water or energy).
- Possibilities to **network** with other partner companies.
- And what's most important: company **reduces harmful climate effects!**

32

companies

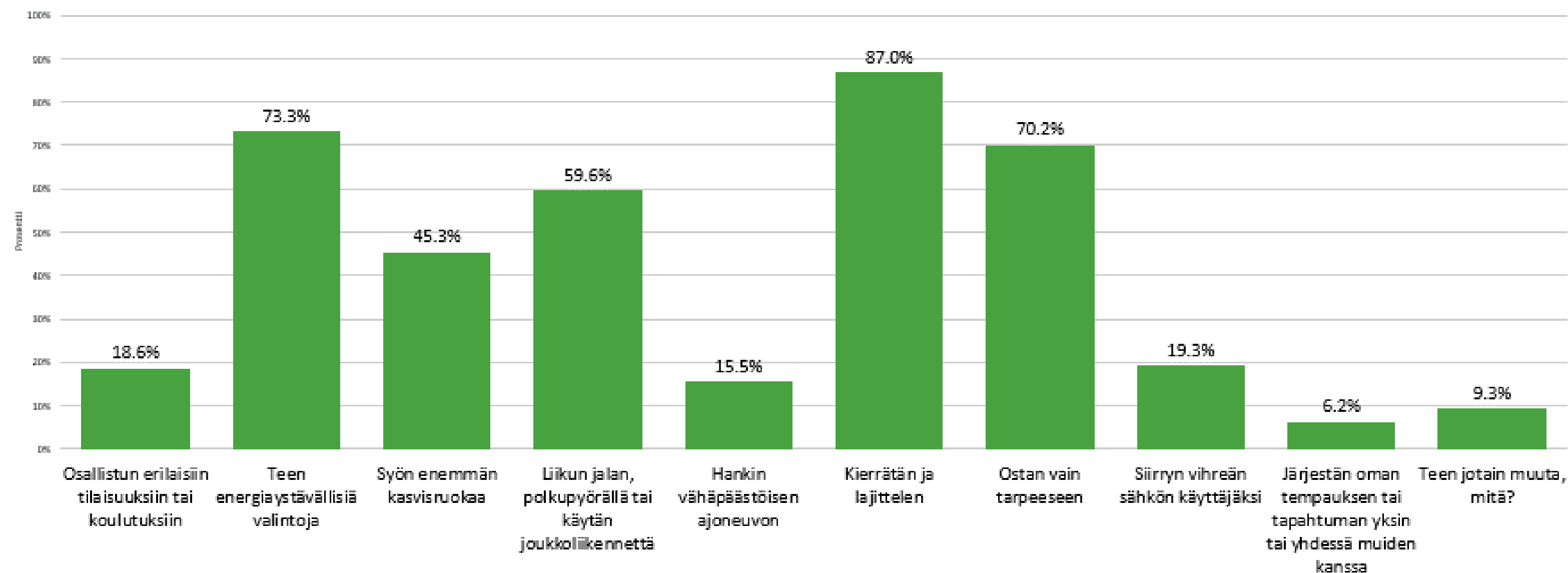
12.5.2021



Questionnaire for citizens

Miten sinä haluaisit osallistua ympäristötavoitteiden toteutukseen?

N=161



How would you like to participate in reaching environmental goals?

1. Recycle
2. Energy friendly choices
3. Buy for the need
4. Walk, cycle, use public transport
5. Eat more vegetables

Leverage from
the EU
2014–2020



THANK YOU
for your attention!
[linkedin.com/in/korhonenkati/](https://www.linkedin.com/in/korhonenkati/)



lappeenranta.fi
greenreality.fi

