

Hi lm Envor!

Forerunner in circular economy

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EnvorGroup
ympäristön ykkönen



Turnover: ~15 Mio €
Personnel: ~65



Recycle and utilize waste as raw materials:
100.000.000 kg / Year

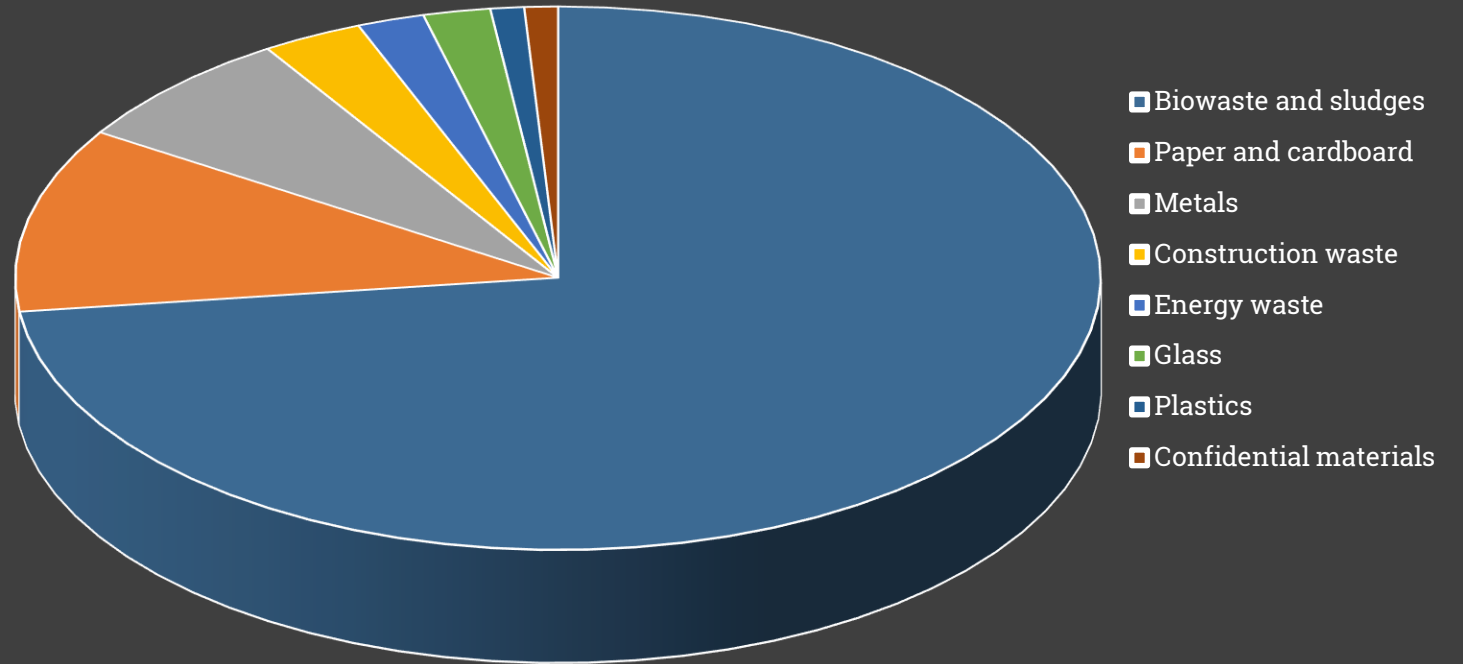


Biogas plant:
Capacity 84.000 tons of biowaste and waste water sludges in Year
= 10 full truck loads per day



Biogas production:
+ 6.000.000 m³ / Year
= 3.500.000 L diesel
= 1.500 household energy needs

**RECYCLED
MATERIALS
tn / Year**



**Our know-how
is based on the
family scrap
business that was
founded in 1964
and was then
called Forssan
Romu.**




Growth story

1964 founded Forssan Romu started recycling glass already in the beginning of 1970's.

- Railapa Oy was founded in 1979. The company's business is the recycling of paper, cardboard and plastics.
- 1990 was founded Forssan Teollisuus- ja Kiinteistöpalvelu Oy which is offering waste and recycling management and real estate management.
- Etelä-Suomen Multaravinne Oy was founded in 1996 to process multifunctional products and fertilizers from bio-waste.

The companies were placed under a common roof brand in 2006 and the Envor Group is formed.





Envor has always been a fore-runner in circular economy

Over the decades Envor has consistently developed waste recycling and material utilization and brought new ways to recycle different waste materials.

More than **98%** of the waste we process is recycled as raw material or recycled through our own treatment facilities or through our partners.

**Being a fore-runner
means that there are
not always existing
norms, processes or
end-results**

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**one has to create
them by himself
through
experimenting and
errors.**



Pioneer in biogas production

2008 first industrial scale biogas plant with EPAD technology in Finland

2010 the world's first biogas industry symbiosis in glass wool production - together with Saint-Gobain


2013 the first nitrogen removal plant in Finland for the treatment of reject water from biogas production

2014 one of the first biogas filling stations for vehicles in Finland

2018 the first in Finland to make environmental reports publicly available in relation to this type of production plants

2018 organic status for the digestion residue - through the separation of the biogas processes

2019-2020 major investments in promoting zero-emission biogas for transport



As a result of our development work, there are several EPAD biogas plants on the market that use the best available technology for the biogas production.

**We want to be a
fore-runner also
in the future.**

**Our mission is to make the
waste materials truly
circulate and recycled –
together with our
customers and for the
wellbeing of the whole
world.**

LEADER

WASTE



Our values are:

**Customer
Humanity**

Ownership

Responsibility



Responsibility

Our environmental reports and monthly monitoring reports are published publicly on our website.

We are constantly developing and implementing new recycling techniques and technologies.



We were the first company to start collecting household plastics in the LHJ area and are the only terminal for household plastics in this area.

We were participating in the recycling project for agricultural plastics called LiMuKe and as end result from this project we are currently recycling agricultural plastics in our area.





We work closely with HAMK. We have several joint development projects and the students are doing some of their internship and graduation at Envor.

We have also carried out many projects together with the University of Tampere and the cooperation is still ongoing.

Examples of our other projects

- Glass wool dust recycling instead of placement in landfill
- Industrial Symbiosis - Best Practices project together with HAMK
- Organic status for digestate from biogas plant and the use as fertilizer product for agriculture



ISO 9001

BUREAU VERITAS
Certification



ISO 14001

BUREAU VERITAS
Certification



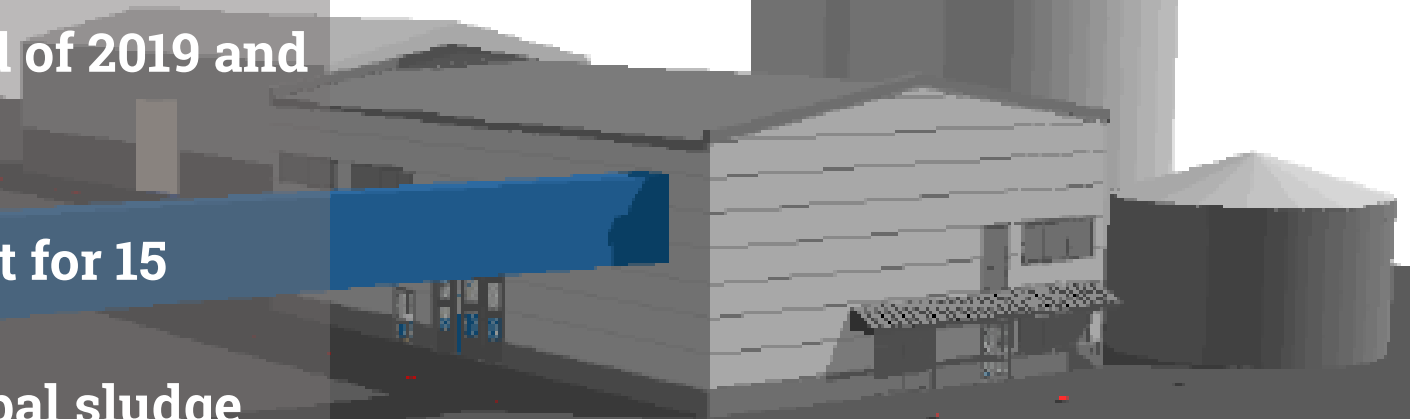
Technology know-how

- EcoProtech is the number 1 partner, for processing food waste and different types of sludges to biogas and valuable fertilizers
- For municipal and industry solutions
- Semidry Process guarantee more efficient process
- EcoProtech has over 20 years of experience with existing references also in China and Thailand
- Proven technology for biogas plant with long term reliability
- EPAD = EcoProtech's Advanced Digestate technology



Next big project – biogas plant in Pori

- Next biogas plant project for Envor Group is in Pori, Finland
- Construction will start at the end of 2019 and is ready during 2020
- Project is realized together with municipality of Pori – agreement for 15 Years
- Biogas is produced from municipal sludge
- Capacity: 28.000 tn / Year
- Project includes also a biogas filling station for vehicles



Thank you

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