

PIPELIFE DELIVERED FOSSIL-FREE PVC PIPES FOR "HOPE" IN GOTHENBURG

A further big step has been taken towards decarbonization as PIPELIFE now produces PVC pipes based on fossil-free PVC.

First deliveries by PIPELIFE Sweden went to the ambitious "Hope Project" in Gothenburg.

With this project, the municipality of Gothenburg aimed to build a fully fossil-free preschool as part of the city's long-term climate strategy, reducing its consumption-based greenhouse gas emissions by 75%, by 2050.



“Hoppet” (“Hope”) is an innovation program and a framework for 30 planned, different projects, where innovations and recycling will reduce the climate impact of construction projects.

“Hoppet” is an exploratory innovation program that tests itself with different processes and materials to find optimal solutions.

The first project was to build a preschool as climate-neutral and fossil-free as possible.

The buildings are now taken in use and calculations show that 70 percent of the climate-affecting emissions had been cut thanks to climate-smart choices of materials and methods.





The City of Gothenburg wanted, in close collaboration with experts, innovators, entrepreneurs and suppliers, to work to make this happen. In that way, they aim to push the transition to sustainable community building.

The project requested fossil-free plastic pipe systems for the preschool "Hoppet".

- Sewage and storm water pipes
- Indoor soil pipes
- Cable protection pipes in ground
- House and ground drainage pipes

Pipes made from recycled material are considered fossil-free. The pipes should meet all requirements according to norms and standards.

WE HAD TO RELATE TO

- All piping systems had to have predetermined properties based on current standards, all piping systems also had to be certified by a 3rd party.
- Some certifications also meant that we had to use virgin material for some pipes.

An absolute requirement was:

"ACCORDING TO POLICY, YOU MAY NOT USE PVC PIPES"

We did not get an explanation, but that was what the project group had to deal with and relate to.



PVC is by nature one of the most suitable plastic material, for pipes, based on physical durability and environmental sustainability"

Ove Söderberg, Project Manager at Pipelife Sweden.

We realized the value in the fact PVC "only" contains 43% fossil and the possibility of getting it completely fossil-free compared to other materials.
We therefore turned to INOVYN for further dialogue and cooperation.

We had a dialogue with INOVYN and returned to "Hoppet" with the following question:

- If we manage to produce a 100% fossil-free pipe, would that be interesting for the project?

They turned out to be interested!

Initially they were restrictive and hesitant, as PVC was not allowed according to the Gothenburg local administration's Technical Requirements and Instructions "TKA".
Finally, they could not resist the possibility of having a fossil-free pipe system, delivered to the fossil-free preschool.
The administration hereby accepted PVC pipes installed in the ground but certainly not in construction.



BIOVYN BECAME AVAILABLE

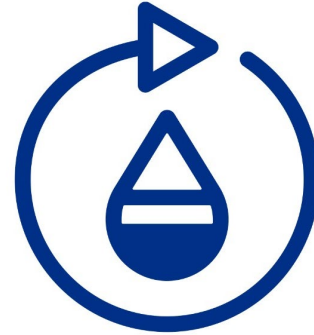
BIOVYN is a specialist grade of PVC, made from renewable feedstock derived from wood-based residue from the forestry industry.

It delivers greenhouse gas savings of more than 90% compared to conventionally produced PVC as certified by The Roundtable on Sustainable Biomaterials (RSB).



PROTECTION OF RESOURCES

BIOVYN is a bio-attributed PVC using renewable wood-based residue as feedstock.



RECYCABLE PRODUCT SYSTEMS

BIOVYN also retains the exact same product characteristics as conventional PVC:
Durable up to 100 years
Flexible with high performance
Recyclable.



SOLUTIONS FOR THE FUTURE

BIOVYN bio-attributed PVC is based on the bio-attribution concept certified by RSB. A global certification standard for sustainable biomaterials.

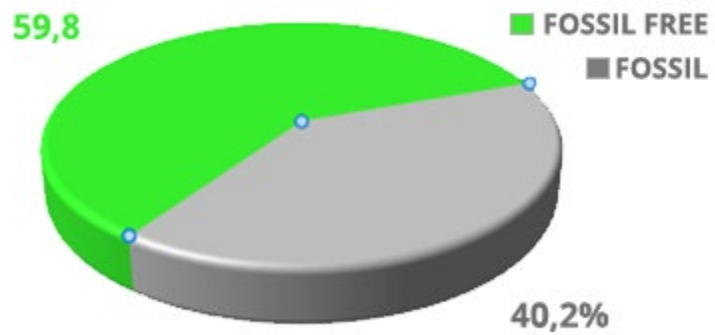


TOWARDS A LOW CARBON ECONOMY

Using BIOVYN in PVC-pipe production is moving us closer to a carbon-neutral economy.

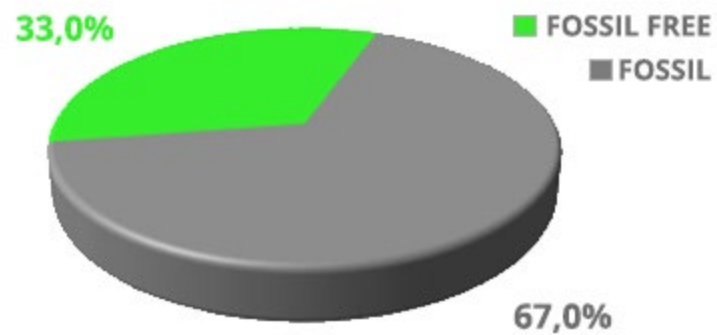
THE START

WITH ACCEPTANCE FOR PVC STANDARD



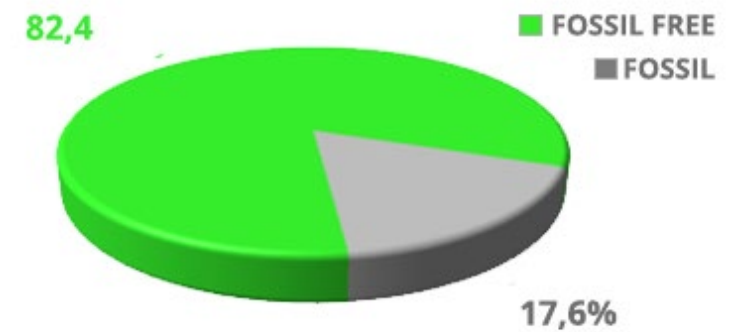
THE PROGRESS

WITH RECYCLED PE & PVC



THE SOLUTION

WITH ACCEPTANCE FOR BIOVYN



WINDING UP “HOPPET”

"Hoppet", when facing new calculations, revalued. They turned to be positive to bioplastics for ground-certified pipes.

**The result (of all the plastic pipes) was:
82.4% fossil-free!**

**49% of the material in the pipes is BIOVYN.
11% was recycled PVC-pipes from the Swedish market.**

**Furthermore,
we reached a fantastic 49,5% CO2 reduction!**

(GWP-reduction kg CO2 –eq, A1-A3)



PHOTO: HANNA BJÖRK, LOKALFÖRVALTNINGEN, GÖTEBORGS STAD



BIO-BASED AND RECYCLED PLASTIC PIPES DELIVERED BY PIPELIFE TO "HOPPET".

#COLLABORATION

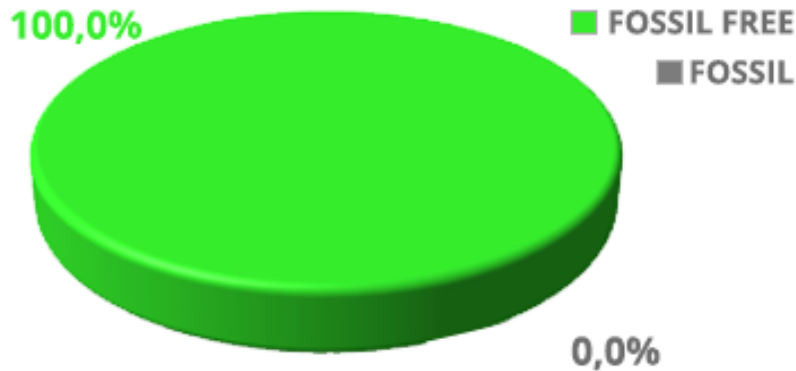
In project "Hoppet" we have come a fair step of the way.

It was important to us to be able to follow our guiding principle , to be the most value-creating partner in the market.

With project "Hoppet", we are confident PIPELIFE is that partner.

By actively choosing PVC, meaning an average of a fantastic 60% fossil reduction, is a great achievement.

By actively choosing Biovyn the possible, future result for the remaining "Hoppet" projects, could look like this!



"Hoppet" (Hope). Your guide into the future?

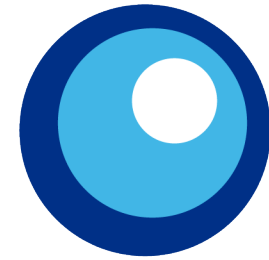


"If we can change consumers' views on PVC, and its brilliant qualities, we can deliver 100% fossil-free pipes in the future ."

Ove Söderberg, Project Manager at Pipelife Sweden.



PIPELIFE



always part of your life