What is the problem with artificial football pitches?

Football is the largest sport in Norway with over 370 000 active players. With help from artificial turf, children are able to play even in cold Norway, but this comes with an environmental cost. Rubber granules from football fields are polluting their nearby environment with microplastic, including the ocean. With several new artificial turfs built every year we have a growing problem which requires a solution and actions now.

How regular artificial SBR turf is built up



Reuse and Recycle

Besides finding a new type of sustainable football turf, the existing fields in Norway also have to be properly managed. There are several components in artificial turf that can be either recycled or reused, each with their own problems and solutions.

Reuse ensures that the same product gets used more than once, while recycling gives a new life to the old resources. Here are some pros and cons for both solutions.



The Artificial Turf Revolution

Where does the granules end up?



Did you know..
That there exists

That there exists almost 2000 artificial football fields in Norway?

Did you know...
There is the same amount of plastic in one football field as in 1,4 million plastic bags

...and that There is over 1,2 tonnes of zinc on a football field with

.....

Did you know...

Wear from old car tyres is the *single biggest* contributor to microplastics?

...ironically

The second larges contributor to microplastic is artificial turfs.

Actually...

SBR granules on football fields may be forbidden by EU in the next few years. The need for new solutions is therefore urgent!

ECHA 2020

...but

This is easier s than done for new alternation

Bjørn Aas, intervie

How much area

How much granules are needed for one pitch?



Cork - Made out of the outter bark from the cork oak tree Geoplus - A combination of crushed coconut shells and cork

.

Sand - Natural infill derived from quartz

Did you know

Rating of Infills

Best Alternative

Olive Rocks has the highest total score and we believe this is the most attractive alternative today!

The organic alternatives generally scores higher on the environmental aspects. However, it is important that they improve on user friendliness if they are to be adopted on a large scale.

Category/Infili SBR EPDM No Infili Olive Rocks Cork Geoplus Sand Total Cost 3 2 5 4 3 2 4 Microplestics 1 1 5 5 5 5 5 Environmental Poolutions 2 2 5 4 4 4 4 FITA Demands Politics 4 4 1 2 3 2 3 Total Score 14 14 18 19 18 15 18

Conclusion

- FIFA demands makes it difficult to implement new solutions
- Hard to choose between environment and user friendliness
- future might not be on the marked yet

