

INITIATIVES CONTRIBUTING TO THE UN SUSTAINABLE DEVELOPMENT GOALS

SAND WASHER PLANT FOR DAIRY FARMS

DESCRIPTION

The sand washer plant can retain 90 % of the grains of sand >105 µ, and there will be <3% organic material in the washed sand when it leaves the sand washer. Once the sand has been stored for a minimum of 2-3 weeks, it can be used in the cattle house again. There will then be no bacterial growth to harm the cattle. The cattle will be doing better walking in sand and thus produce more milk.



INITIATIVES

The sustainable development goals are sorted according to contributions - the one with the highest estimated contribution is on top.



2.4

By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

2.A

Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular least developed countries.



8.4

4 Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 10-Year Framework of Programmes on Sustainable Consumption and Production, with developed countries taking the lead.



9.4

By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

STJERNHOLM INITIATIVES

Dairy cattle are doing better walking in sand, and cattle produce more milk when they are doing well. The sand can be used in the cattle house several times after having been through the sand washer plant. This means savings in the purchase of sand and in the consumption of sand.

STJERNHOLM INITIATIVES

This results in good resource utilisation and a sustainable consumption of sand. Sand can be reused several times in dairy cattle operations.

STJERNHOLM INITIATIVES

This is an environmentally sound technology that can use collected rainwater and/or recycled water to wash the sand. It also saves money in transporting new sand to the farm as the sand can be reused in the cattle keeping. It is no longer necessary to buy sand in the same quantities as before.

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12 RESPONSIBLE CONSUMPTION AND PRODUCTION



12.2

By 2030, achieve the sustainable management and efficient use of natural resources.

12.5

By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse.

12.A

Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production.

STJERNHOLM INITIATIVES

Sand is a natural resource that can be used several times.

The sand washer plant contributes to obtaining a more sustainable consumption and production pattern in farming.

17 PARTNERSHIPS FOR THE GOALS



17.7

Promote the development, transfer, dissemination and diffusion of environmentally sound technologies to developing countries on favourable terms, including on concessional and preferential terms, as mutually agreed.

STJERNHOLM INITIATIVES

The sand washer plant can help make operations of American farms a lot more environmentally sound.

