

CASE STUDY OF CROSSFLOW TUBULAR MEMBRANE FILTRATION (TMF) USED IN CORN STARCH PROCESS

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¹Employed

This presentation provides process overview and design, flow rate, filtrate quality and general financial details of an operating corn starch facility in Philippine. The process separates the corn starch from clean water, allowing the water to be recycled and concentrating the corn starch product.

The presentation reviews currently used filtration steps in production of cornstarch process as well as the new crossflow process.

Many current cornstarch processes currently have issues with wastewater treatment and disposal. Currently used processes require many filtration steps and often do not treat to levels that allow disposal without significant costs.

The TMF process allows recycling of water back into the process, saving water production and disposal costs.