

Water management strategies, Water saving Initiatives

March 7.2024

IPPTA Technical Exchange Meeting

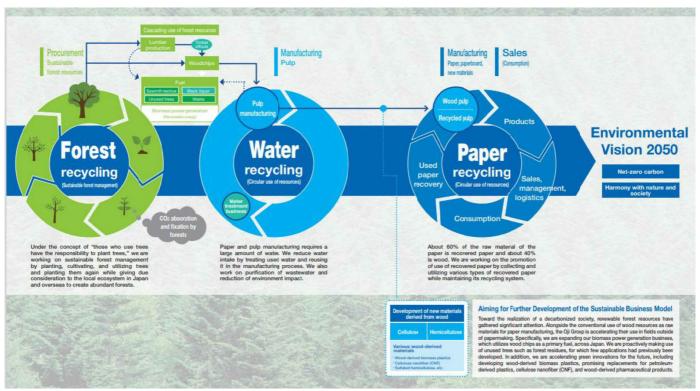
Oji Holdings Corporation
Group Technology Division
Reito Ohshima

Sustainable Business Model



Resource Circulation throughout the Value Chain

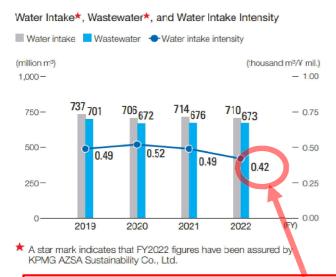
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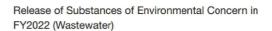


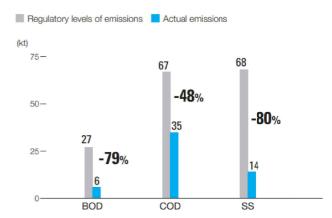
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Water supply



Drainage





Water Intake target: 0.44

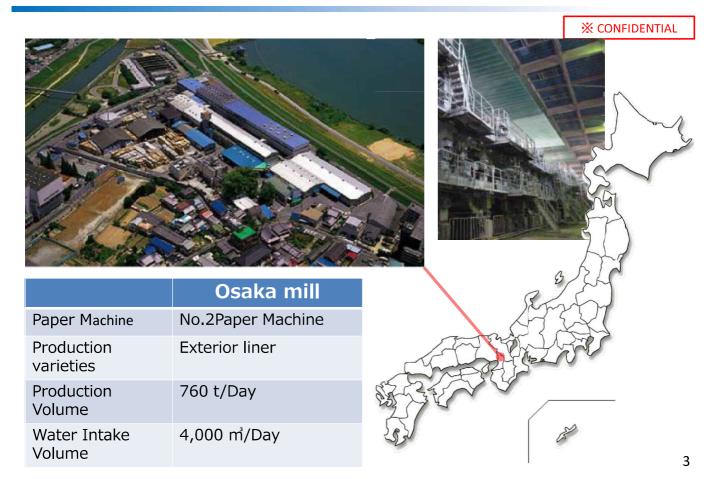
Reduction of water intake intensity by at least 6% from FY2018 (0.48)

(%) Quotation from the "Oji Group Integrated Report 2023"

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Osaka mill



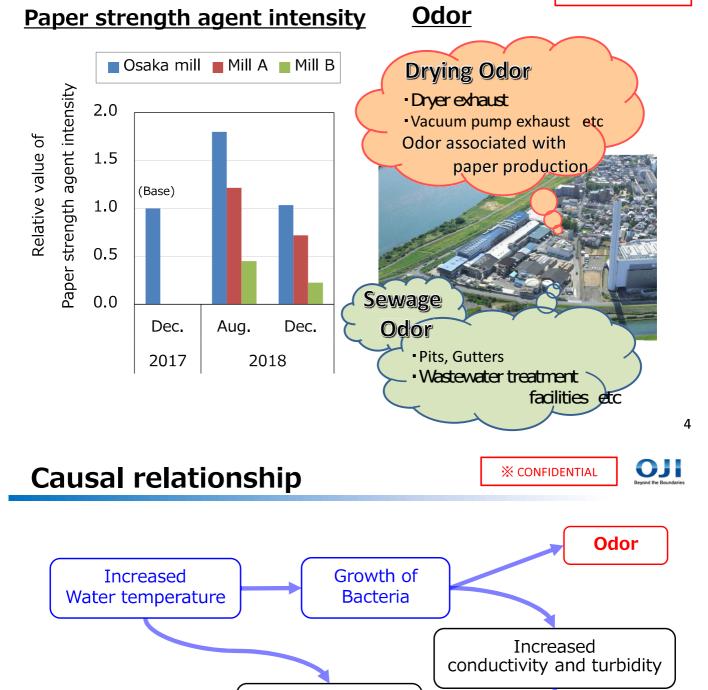


Issues at Osaka mill

Flocculation of fiber



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Sheet Strength decrease

Deterioration of sheet formation

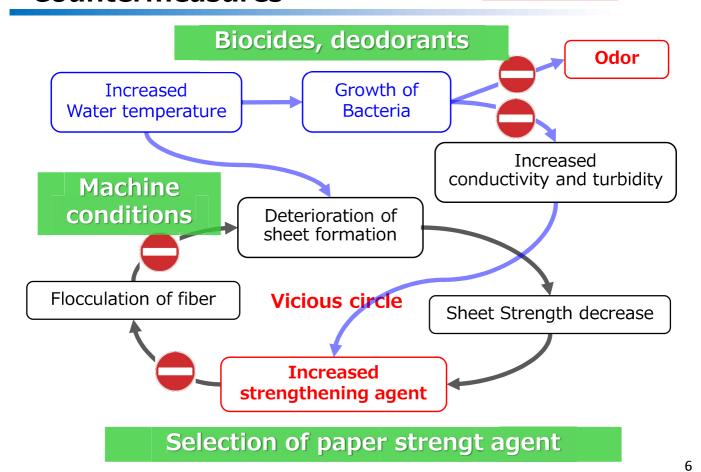
Vicious circle

strengthening agent

Countermeasures

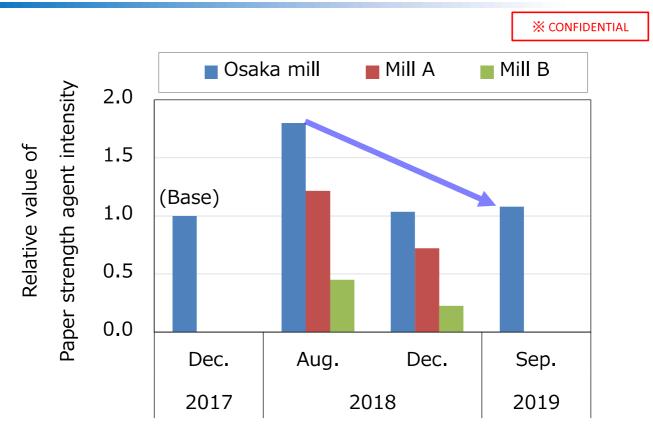






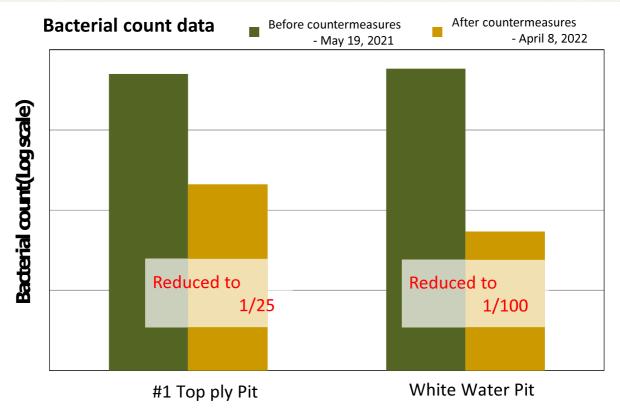
Paper strength agent intensity





Result of measures against odor 1

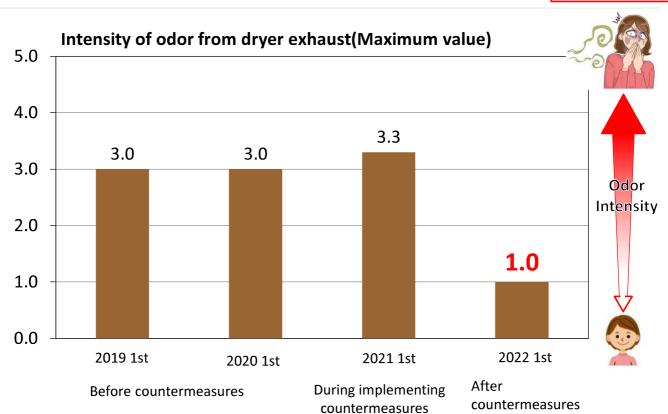




Result of measures against odor 2



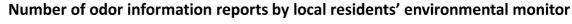
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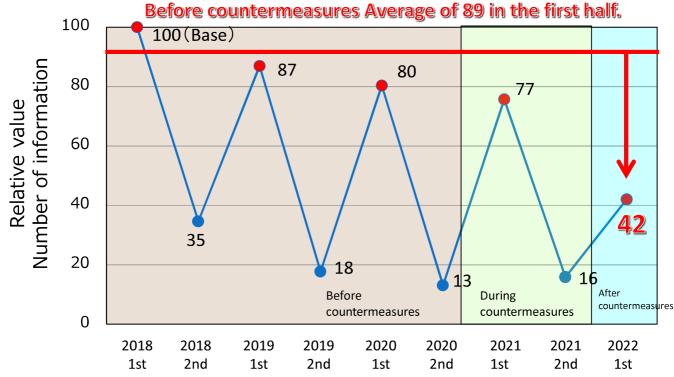


Result of measures against odor 3



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Water treatment technology in Oji group



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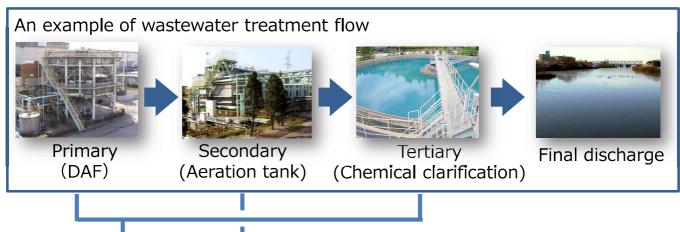
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Paper mills require

- A lot of fresh water
- Demin water for steam
- Huge WWTP

We have

- Good solutions for cost saving
 Optimal process flow, chemical dosing
- Know-How of plant operation
 Stable operation to keep water quality



Need know-how for stable operation

Need optimal chemical dosing

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Examples of the business







