



Impact of implemented IS synergies in SkyFat Tannery Ltd



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Company Name: Skyfat Tannery Co. Ltd

Location: Jinja District, Uganda

Year of Establishment: 2006

Capacity: 60 tones of wet blue leather per day

Number of Employees: 550 Employees

Sector: Leather

Situation before adoption of IS synergies under SAG

Large quantities of Solid waste (splints and off cuts) were generated

- The company would generate averagely 60 tons/day annually equating to **21,600 tons of waste** ending up in dumping sites.
- This would cost the company **USD 1,120 / day** to transport solid waste to dumping site translating into **USD 380,800** annually.
- CO2 approximating to **132,552 kgCO2eq** could be emitted to air annually during transportation of solid waste to dumping sites.

Continuation

- There were social impacts attributed to poor waste management due to bad smell.
- There was excessive use of chemicals due to ungraded hides and skins.
- The procedure of grading and trimming of hides after tanning would require more chemicals, water and energy



European Union

Solid waste Handling before Industrial Symbiosis



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Implemented IS synergies during SAG

1. Oxidation of Splits

The company invested 580,000USD and added value to splits (layer of flesh from the hides) by oxidation and drying.

Using oxidizing chemical, splits from liming process are oxidized, bleached, dried, crushed and sold to other industries as a raw materials. Previously these would end in dumping site contaminating the site with chemicals and the company would incur the cost of transportation.

2. Created synergies with other leather processing industries. These supply the splits & offcuts.

Processed products after adding value to wastes

Oxidized Splits

Oxidized splits being loaded to
market



Crushed Oxidized splits ready for export



Demonstration of Dog Chews from made splits



1. Job Creation

Adding value to splits and off cuts has created direct green jobs for 250 youth (150 Male and 100 females)

2. Saving from cost of disposing waste

Value addition to splits and off cuts has saved USD 380,800 which was previous spent on waste disposal

3. Improved company image

4. Additional revenue stream to the company

- Sales from limed off cuts (approximately USD 60,000 annually)
- Sales from oxidized splits (approximately USD 580,000 annually)



More Industrial Symbiosis synergies created with other leather companies in Uganda

- The company entered into partnership with other Leather Companies to collect off cuts and splits which other wise would be waste to companies. To date Over **50 tons** of off cuts and splits are collected monthly from other leather tanning companies.



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