

Pick n Pay Food Waste Strategy

Food Waste Industry-meets-Science workshop
15 February 2017

Andre Nel
General Manager Sustainability
Pick n Pay



Overview of Current Activities

War on Waste commitment

- In 2015, Pick n Pay launched the War on Waste Commitment
- This waste reduction programme set the following targets to be achieved by 2020:
 - “Between 2015 and 2020 we will cut our energy use per square metre by a further 20%, adding up to a 50% cut since we began on this journey in 2008.”
 - “In terms of tackling climate change, and including our work on climate-friendly refrigeration, we will aim to reduce CO2 emissions by 25% per square metre by 2020”
 - “We will create 20 new jobs in SA every working day... This will add up to around 5,000 new jobs per year as we expand our ability to serve customers across the country.
 - “We will cut the food waste we send to landfill by 20 percent by 2020”
 - In addition to deepening our partnership with FoodForwardSA, we will find new ways to make productive use of food waste and reduce the amount of food waste we produce in the first place.”

War on Waste commitment

- Strategies implemented to reduce Food Waste from being sent to landfill:
 - Reductions in Waste generated
 - Distribution of food to people in need through our partnership with FoodForwardSA
 - Composting
 - Anaerobic Digestion

Reduction in Waste Generated

- Rollout of Store Planograms
- More accurate demand planning
- 'Reduce to clear' rollout to stores
- Increased focus on maintenance of Cold Chain

FoodForwardSA Partnership

- Pick n Play is FoodForward's largest Retail Partner in SA
- Donated to date in 2016 / 2017 FY more than 2000 tonnes of food for redistribution to people and communities in need
- More than 40 000 meals created every day from Surplus food donations
- Charities are able collect from their closest store to redistribute food in their local community
- Charities are scheduled for specific days / timeslots

Composting: Waste To Food

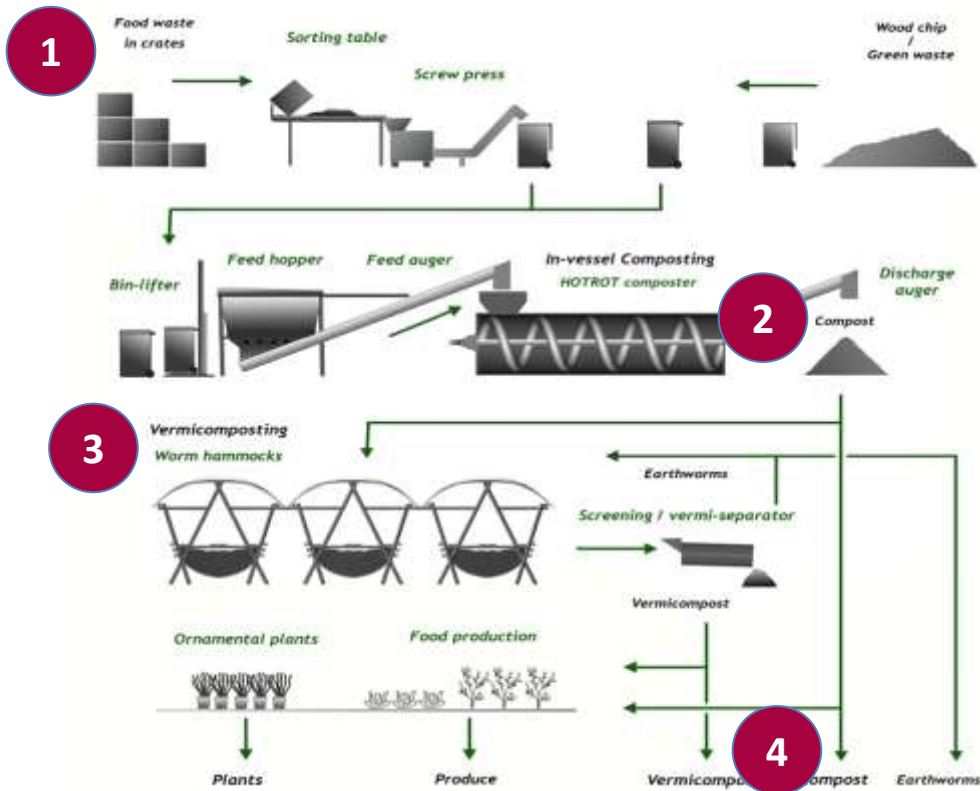
- Pick n Play setup a partnership with:
 - City of Cape Town
 - PEDI (Philippi Economic Development Initiative)
 - IDC (Industrial Development Corporation)
 - Don't Waste (Waste Management Service Provider)
 - Waste to food : Operating company
 - Millisa Trust
- Project has taken 5 years to develop and is based on 3 hectares in Philippi Cape Town
- Composting is done through In-vessel composting as well as Vermi-composting

External stakeholders

Stakeholder	Objective	Project role/involvement	Project Responsibilities	Project Liabilities	Expected benefit
Pick 'n Pay	Improve social & environmental impact of PnP	Investment to procure shareholding for Milisa ED Trust	Milisa Board representation via Foundation	Financial	Waste Reductions, ED, BEE and Tax benefits, social & environmental Responsibility
Milisa ED Trust	Create ED opportunities	Shareholder, W2F Board	W2F Board		Community Financial Benefits
IDC	Develop Social Entrepreneur opportunities & Green Industry	Development (Grant) Funding	Ongoing monitoring of W2F activities	Financial	Achieve organization objectives
City of Cape Town	Address social, economic and environmental issues	Landlord. Investment in infrastructure and support services	Ongoing support to W2F / associated ED opportunities	None	Diversion of waste . Social & economic development
PEDI	Economic Development Investment	Business development & support	W2F Board	Financial	Community job creation, Skills transfer, financial
Don't Waste	Investment	Strategic partner	W2F Board Waste supply	Waste supply	Financial. Offer beneficial service
Waste to Food (entrepreneurs)	Investment	Operational capacity	W2F Board Operational capacity	Financial	Community job creation, Skills transfer, financial

Composting process flow

Project process flow



Key process steps

- 1 Food Waste:**
Food Waste is received from Pick n Play stores
- 2 HOTROT composter:**
In-Vessel composting process converts food waste into compost

 - Worm hammocks:**
This process will turn compost into Vermicompost, This part of the project is run as micro-franchise model
- 3 End product:**
Earthworms:
Compost:
Vermicompost:
Plants:

In-vessel Composting Unit



In-vessel composting ; vermi-farms and growing tunnels



Large scale Vermi-composting



Compost resold in Stores



Anaerobic Digestion and Agriprotein

- Pick n Pay will also distribute Surplus Food which is not suitable for redistribution to FoodForwardSA to:
- AD plant in Athlone Cape Town
- AgriProtein
- Composting project currently busy with trials during ramping up period to also process waste from Agriprotein
- Offering both reductions in Landfill Gate Fees and Logistics costs of moving Food Waste

Challenges, Obstacles and Opportunities

Challenges, Obstacles and Opportunities

- Physical Infrastructure - availability of AD, Composting, Redistribution opportunities in South Africa and Africa
- Logistical costs
- Funding Support - Government and Industry
- Lack of Collaboration due to:
 - Costs implications and Financial constraints
 - Lack of accurate data to report and develop strategies
 - Different levels of maturity
 - Competition Commission

Thank You

- Andre Nel
- anel@pnp.co.za
- 0824913227