



INVITATION

Industrial Symbiosis Business Opportunity Workshop

Working together!

The NCPC-SA in partnership with the Mpumalanga Department of Economic Development and Tourism invite you to participate in the Mpumalanga Industrial Symbiosis business opportunity workshop.

Event details

DATE: Tuesday, 3 March 2020
TIME: 09:00 - 13:00
VENUE: Graceland Hotel & Casino, Embalenhle Road, Secunda

Click here to RSVP

or email your details to Sandile Khumalo:
skhumalo1@csir.co.za

Include your full name, company, contact details and email address.

Background



The NCPC-SA Industrial Symbiosis (IS) is a resource efficient approach, where unused or residual resources (material, energy, water, waste, assets and logistics) of one company are used by another. The NCPC-SA is the custodian of Industrial Symbiosis Programmes in Gauteng, KwaZulu Natal, Limpopo and Mpumalanga.

What is IS?



It's a free facilitation service that uses internationally proven industrial symbiosis approach to enhance business profitability and sustainability.

How it works?



IS Programme uses unique facilitation approach to rapidly match member companies' underutilised resources with those who can utilise them. The programme actively supports its members to realise business opportunities or "synergies".

Who should attend checklist?

We welcome one representative from any company with residual waste or resources:

- Directors/owners of industrial companies with residual waste or resources;
- Waste/recycling and other environmental companies;
- Science and technology labs;
- R&D departments and universities;
- Municipality representatives responsible for energy/waste management;
- Road construction companies; and
- Entrepreneurs

Is the IS Programme symposium for you?



- ✓ Do you have waste from manufacturing processes you cannot recycle?
- ✓ Is recycling your waste expensive?
- ✓ Are you looking to implement new technologies into your site to keep ahead of the competition?
- ✓ Have you developed a new technology or innovation that you want to try in your company?
- ✓ Do you sell or manufacture innovative equipment that can help companies be more efficient?

MISP partners



economic development & tourism
MPUMALANGA PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA



the dti
Department: Trade and Industry
REPUBLIC OF SOUTH AFRICA





Industrial Symbiosis Programme Case Study

A Johannesburg Casino & Bokashi Bran (Pty)Ltd

Year of Intervention **2016**

Waste stream: **Food waste**



Company with Waste Material – **A Casino in Johannesburg**



Company that needs Waste Material – **Bokashi Bran (Pty) Ltd**

The NCPC-SA Industrial Symbiosis Programme Highlights

| Year | Diversion figures (tonnes) |
|---------|----------------------------|
| 2015/16 | 244 |
| 2016/17 | 5 956 |
| 2017/18 | 105 302 |

Summary of Intervention

A Johannesburg based Casino partnered with Bokashi Bran (Pty) Ltd to divert approximately 980 tonnes of food waste per annum from landfill. The Bokashi Waste-Station machine reduces high volumes of food waste by up to 80% resulting in savings in compactor or skip upliftments.

Savings



Savings in (ZAR/yr)
42%



GHG Emissions Reduction
79 Tonnes



Interesting fact
No investment



Landfill Diversion
980 tonnes



Jobs Created
1 permanent position



Industrial Water Saved (m³)
36 260m³

Savings and achievements of the programme from 2015 to date

Cost savings in Rands
R17 713 486 Landfill diversion
R45 881 696 Airspace savings

Landfill diversion
202 775 tonnes



Virgin resource reduction
200 233 tonnes approximately

GHG emissions savings
70 390 tonnes



Industrial water saved
862 795 m³



Businesses assisted
46

Jobs created

6



Economic value generated

R94.8m

(April 2015 to March 2018)

