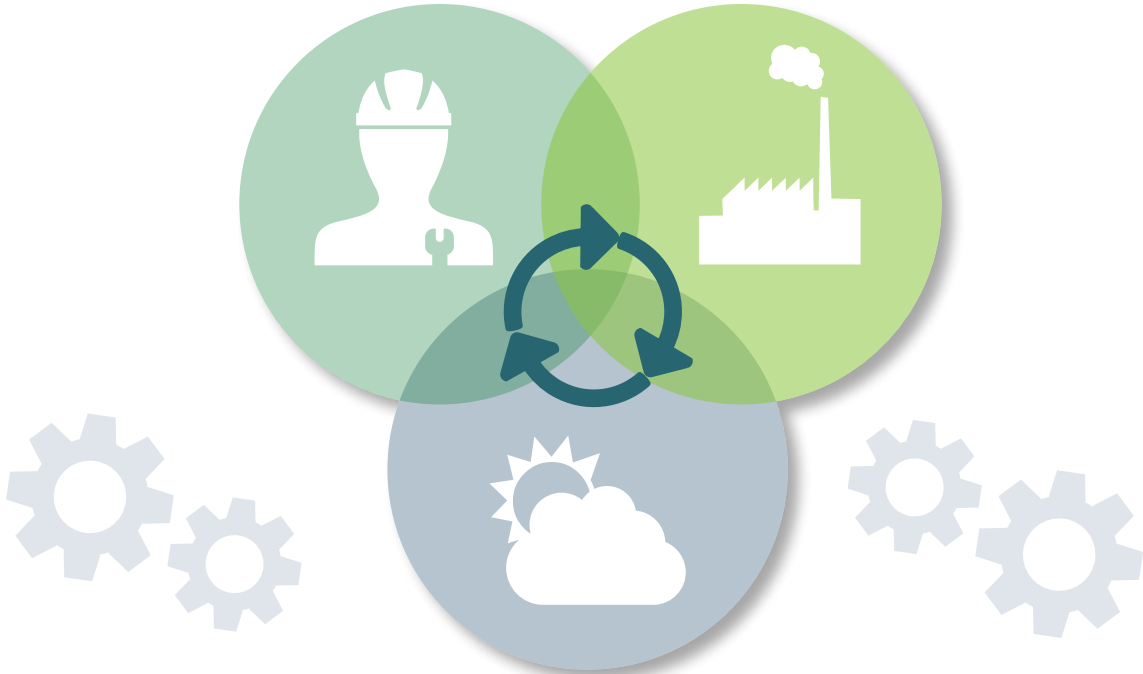




# NCPC

NATIONAL CLEANER PRODUCTION CENTRE  
— SOUTH AFRICA —



## Industrial Symbiosis Programme

[www.ncpc.co.za](http://www.ncpc.co.za)



the dti

Department:  
Trade and Industry  
REPUBLIC OF SOUTH AFRICA

CSIR  
*our future through science*

# Industrial Symbiosis Programme

## Connecting industry, creating opportunity

The NCPC-SA, as the national resource efficiency programme of **the dti**, is the custodian of the Gauteng and KwaZulu-Natal Industrial Symbiosis Programmes (GISP and KISP respectively). A similar programme also operates in the Western Cape.

Industrial Symbiosis Programme (ISP) is a free facilitation service which uses an internationally proven industrial symbiosis approach to enhance business profitability and sustainability.

### What is industrial symbiosis?

Industrial symbiosis is a resource efficiency approach where unused or residual resources (Material, energy, water, waste, assets, logistics, expertise etc.) of one company are used by another. This results in mutual economic, social and environmental benefits.

Facilitated industrial symbiosis implementation specialists, **International Synergies Ltd**, define industrial symbiosis as

“...the practice of **bringing together** companies from different sectors to **identify business opportunities** that **keep resources** in the economy in a **perpetual productive cycle** that **avoids waste** – in other words, **the circular economy in action**.”

*([www.international-synergies.com](http://www.international-synergies.com))*



## How does ISP work?

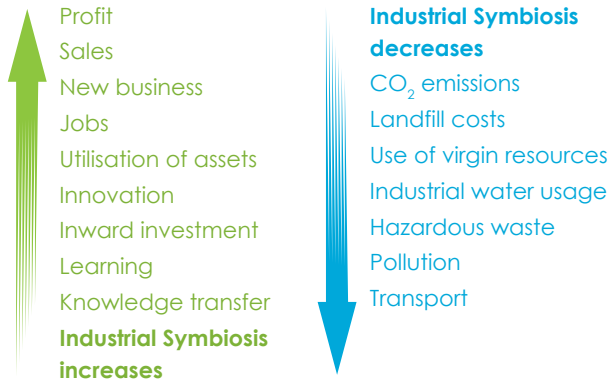
ISP uses a facilitation approach to match the under – or unutilised resources of member companies with other member companies who can use them to create new business opportunities. Membership is free of charge as ISP is one of the fully subsidised services of the National Cleaner Production Centre of South Africa (NCPC-SA).

One of the tools used by ISP is Business Opportunity Workshops. At these events, the ISP team will facilitate an interactive session that will allow participants to exchange details about resources they have on-site or resources they need that others may have.



**Joining one of the IS programmes (GISP, KISP or WISP) or attending an industrial symbiosis workshop can help a company:**

- **Save money** on raw materials
- Explore **new innovations** for wasted or difficult resources
- Generate **new business opportunities**
- **Reduce** their **carbon footprint** and **improve** their **environmental performance**



## National Industrial Symbiosis Initiatives

GISP is jointly funded and delivered by the NCPC-SA, Gauteng Province Agriculture and Rural Development (GDARD) and the Gauteng Department of Economic Development (GDED) in collaboration with Ekurhuleni Municipality Waste Management Services.

KISP is jointly funded and delivered by the NCPC –SA, Trade and Investment KwaZulu-Natal and the KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs.

The Western Cape Industrial Symbiosis Programme (WISP) is funded by the Western Cape Government Department of Economic Development and Tourism and delivered by GreenCape, a sector development agency for the green economy.

## Industrial Symbiosis Internationally

Industrial Symbiosis has made extraordinary contributions to businesses, economies and environmental efforts worldwide. The ISP model is based on the United Kingdom NISP, established in 2005 and will utilise the UK's expertise and support in its early development phase.

In eight years, NISP was able to help UK companies:

- divert **47 million tonnes** of industrial waste from landfill
- generate **£1 billion** in new sales
- reduce carbon emissions by **42 million tonnes**
- cut cost by **£1 billion** by reducing disposal, storage, transport and purchasing costs
- reuse **1.8 million tonnes** of hazardous waste
- create and safeguard over **10 000 jobs**
- save **60 million tonnes** of virgin material
- save **73 million tonnes** of industrial water





## Benefits of being an ISP member

### **Increasing profits**

Achieved through identifying business opportunities and better management of resources.

### **Diverse Networking**

Bringing together a broad range of industries, sectors and skills.

### **Universal – Transportation and Water**

ISP is not limited to any particular type of resource – it includes energy, expertise, logistics, services, assets, transportation, waste, water.

### **Demand Driven**

ISP is driven by the demands of its member companies.

### **We All Win**

Synergies developed through ISP benefit the economy, environment and society as a whole – sustainability in action.

### **Free Membership**

Membership of GISP, KISP and WISP is free for all companies and organisations, regardless of sector, size or turnover. Membership also gives you access to all ISP programmes throughout South Africa.





### **Gauteng Industrial Symbiosis Programme (GISP)**

National Cleaner Production Centre of South Africa

**Email:** [gisp@csir.co.za](mailto:gisp@csir.co.za)

### **KwaZulu-Natal Industrial Symbiosis Programme (KISP)**

National Cleaner Production Centre of South Africa

**Email:** [kisp@csir.co.za](mailto:kisp@csir.co.za)

### **General enquiries**

For more information or enquiries about any of the services of the NCPC-SA, please visit our website or contact us on

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**IS Programme delivered in partnership with:**

