

Economic mission to Saudi Arabia

14 - 19 May 2022

The logo consists of the letters 'NL' in a bold, white, sans-serif font. The 'N' and 'L' are connected at the base, with the 'L' having a slightly curved bottom.

Netherlands

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Foreword



After a successful Circular Economy mission in February, focusing on state-of-the-art water management solutions, I am very pleased to host the second Dutch Circular Economy delegation, which consist of leading Waste Management companies in terms of quality, innovation and technology. I hope you will be able to cooperate with existing Saudi Arabian initiatives, to contribute to the Quality of Life program and enhance circular economic initiatives in this country.

The relations between the Netherlands and Saudi Arabia date back to 1872 when the Netherlands established its first consulate in Jeddah. As time passed, bilateral relations between the two Kingdoms have strengthened, with growing economic opportunities in many sectors. Recently, Saudi Arabia has outlined the urge of moving towards a more sustainable and diversified economy with all eyes fixed on circular economy.

The Saudi reform and diversification agenda Vision 2030 has set ambitious goals for different areas of development, including recycling and quality of life. Average recycling needs to be raised from 5% to 80% by 2024 for Riyadh city and by 2030 nationwide. Furthermore, the estimates for this sector will need investments totaling 300 billion SAR by 2030. I believe that Dutch companies have an important part to play in this developmental process and I would like to use available means to promote Dutch-Saudi cooperation in this area.

The reason Dutch companies are well-positioned to assist in reaching the Vision 2030 goals is the way in which research is linked to product and business creation. This occurs through collaboration, cooperation and coalition building between businesses, research institutes and universities, supported by government.

The Netherlands is a major player in the global waste management industry, with a strong technological position in for example waste processing, recycling, waste to energy infrastructure. These areas of expertise are especially relevant in relation to the goal of further increasing specialization and the use of advanced technologies in the Saudi waste sector, as put forward by the Vision 2030 program.

Also on behalf of Honorary Consul Ms. Nashwa Taher in Jeddah, Honorary Consul Mr. Sulaiman Al Suhaimi in Dammam and my team, I would like to thank our Saudi hosts and participating companies for all their efforts, and I hope this week will be a fruitful endeavor.

Yours Sincerely,

Janet Alberda
Netherlands Ambassador



The Netherlands

Locations

- | | |
|--|----------------|
| 1. Amsterdam
(and Airport Schiphol) | 9. Haarlem |
| 2. Arnhem | 10. The Hague |
| 3. Assen | 11. Leeuwarden |
| 4. Breda | 12. Lelystad |
| 5. 's Hertogenbosch | 13. Maastricht |
| 6. Eindhoven | 14. Middelburg |
| 7. Enschede | 15. Rotterdam |
| 8. Groningen | 16. Utrecht |
| | 17. Zwolle |



Introducing the Netherlands

How do the Dutch make a difference?

Through their interactive approach to finding innovative solutions to the big challenges facing the world today. The Dutch way of thinking and working has been shaped by centuries of living in the low-lying delta of the Netherlands. Through the ages, the Dutch have joined forces to find ingenious ways to tackle challenges like water, urbanisation, energy, food, health and security. By being inventive, pragmatic and open to new challenges, the Dutch have created a flourishing and resilient land.

The Netherlands is a constantly evolving ecosystem of cities, industry, agriculture and nature, all integrated through smart infrastructure. It is a source of knowledge and experience that the Dutch are keen to share with others. Learning from the past to create a better future. Together, seeking sustainable solutions for the most liveable world.



Worldwide ranking

- 1st At WEF's ranking of most competitive economies in Europe. 4th in the world. (WEF, 2019)
- 1st Production and auctioning of cut flowers and flower bulbs
- 1st World's largest flower exporter
- 2nd Largest exporter of agricultural products in the world (WTO, 2019)
- 4th Best at Global Innovation Index (GII, 2019)
- 5th Greatest place to live (World Happiness Report, 2019)
- 6th Largest exporter of goods in the world (CIA World Factbook, 2019)
- 7th Largest foreign investor in the world (1,256 billion US dollars)
- 7th Largest recipient of foreign investment in the world (801 billion US dollars)
- 8th Largest importer of goods in the world (507 billion US dollars)

Facts & Figures

- **Official name** Kingdom of the Netherlands
- **Form of government** Parliamentary democracy (cabinet of Prime Minister and Ministers) within a constitutional monarchy
- **Head of State** His Majesty King Willem-Alexander, King of the Netherlands, Prince of Orange-Nassau
- **Capital** Amsterdam
- **Seat of government** The Hague
- **Administrative structure** The kingdom consists of four entities. The Netherlands and three territories in the Caribbean: Aruba and Curaçao and St. Maarten. Number of provinces 12. Special municipalities: The overseas islands of Bonaire, Saba and St. Eustatius, all three of which are situated in the Caribbean.
- **Surface area** 41.543 km²
- **Location** Western Europe, by the North Sea, bordering Belgium and Germany
- **Number of inhabitants** 17.4 million (2021)
- **Number of inhabitants per km²** 517 (2021)
- **Monetary Unit** Euro
- **Languages** Dutch and Frisian (On the overseas islands also English and Papiaments)
- **GDP per capita** 51,064 euros (World Bank, 2020)
- **Unemployment rate** 3,1% (CBS, 2021)
- **90% of all Dutch people** speak English

Saudi Arabia and the Netherlands

Creating a sustainable waste management sector together

While we continue to strive to make our societies more sustainable, there are still many challenges we face. Air pollution, waste of precious raw materials and contaminated water and soil. Poor waste management not only contributes to climate change, but also harms the environment, our health and well-being.

To address these issues, we need to be at our most creative and work together. Reducing, re-using and recycling waste, along with the implementation of legislation and policies supporting and encouraging smart waste management, will help us make the most of the limited resources available and accelerate the transition to a circular economy, all while creating jobs and economic growth.

Fulfilling Vision 2030 together

Rapid industrialisation, high population growth and fast urbanisation all contribute to increased levels of pollution and waste in Saudi Arabia. The 2030 Vision, combined with increased awareness, made finding a solution to address the above-mentioned waste issues a top priority for the Saudi government.

NL Smart Waste Solutions, a partnership of Dutch public and private waste management organisations, can support Saudi Arabia in creating a sustainable and integrated waste management sector.

Economic ties between the Netherlands, Saudi Arabia, and the rest of the Gulf region are strong. NL Smart Waste Solutions aims to strengthen this relationship even further. We believe that only when we work together, can we secure a sustainable future for all. Once again we extend this invitation to collaborate to our partners in the Gulf and beyond. Let's continue the dialogue on water, energy and the circular economy.

Shared challenges, shared goals

The energy transition and reduction of CO₂ emissions are high on the agenda in both Saudi Arabia and the Netherlands. Like Saudi Arabia, the Netherlands is looking for international partners to advance our urban resilience and make our waste management supply chain more efficient and sustainable. And just like Saudi Arabia, we see the circular economy as a means to realise the Sustainable Development Goals.

By going circular, we will take important actions to reduce the environmental impact of waste. For example, through the reduction of greenhouse gas emissions and the spill of resources by generating baseload power from waste that keeps industries up and running.



Over the years, we have built up ample experience in developing an integrated waste management system in the Netherlands, our shared challenges and shared goals can provide the basis for a long-term partnership, in which we exchange knowledge on smart waste management solutions on the journey towards a zero-waste economy.

By working together, we can set an example in the Gulf region, Europe, and the world. Additionally, partnering with the Netherlands and NL Smart Waste Solutions not only provides Saudi companies with proven sustainable and innovative Dutch solutions, but also with access to the Dutch and European markets.

NL Smart Waste Solutions

NL Smart Waste Solutions offers a total solution package for an integrated waste management system. Together, we aim to cover the entire waste management value chain, from material recovery facilities and recycling infrastructure to waste-to-energy systems and knowledge transfer. All our solutions and services comply with the highest standards of safety, health, sanitation, and emission regulations, and some are even described as 'Best Available Technology' by the European Commission, testifying to our potential added value.



Company profiles

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BreAd B.V.

BreAd

Core theme

- Waste management consultancy

Company description

BreAd is a consultancy firm representing the services of Hans Breukelman. The company is operating internationally, primarily focusing on projects related to solid waste management (SWM) in developing countries.

The services are provided to private companies and to public authorities, both in developed and developing countries.

Products&Services

Consultation mainly on waste management but also on:

- Remediation of contaminated sites
- Wastewater treatment
- Sustainable energy productions



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AllOptimal

Core theme

- Treatment
- Storage

Company description

AllOptimal offers small scale decentralised and large-scale bio treatment solutions. AllOptimal has the unique approach of taking the organic waste problem as a starting point for the development of affordable and easy-to-use circular solutions for individual use at the site of waste production or for collective operations.

Products & Services

TheBioBlox® - a sustainable small, modular and scalable Optimal Circular Organic Waste Treatment Unit (OCOWTUI) that can fully convert organic waste into hygienised, fertilisers, biogas, electricity and heat.



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Christiaens Group

Core theme

- Organic waste treatment

Company description

Christiaens Group is a global partner in the design and delivery of sophisticated In Vessel Composting (IVC) plants for organic waste treatment.

Products & Services

- Computer controlled high quality composting tunnels.
- Automatic filling AND emptying machines for waste and compost handling.
- Air treatment systems to eliminate ammonia and odour.

The composting facilities are built modular and are therefore fit for future expansion. The compost output quality complies with the highest biological stability rates and sanitation meets the highest hygiene level to prevent plant seed and human pathogen spreading.

Christiaens Group

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GeesinkNorba Group

Core theme

- Transport
- Storage

Company description

GeesinkNorba manufactures (sustainable) waste collection vehicles and offers knowledge in waste collection and trainings in how to handle the collecting equipment.

Products & Services

- The Norba 2 garbage body series is a product line offering smart, solidly built and light-weighted waste collection vehicles to recycling and upcycling companies, thereby contributing to a more circular economy.
- Kiggen Portable compactors are portable and static compactors that compress waste as part of the Kiggen series. As a result, the equipment reduces waste, maintenance costs and the impact of waste on the environment.

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Harvest Waste

Core theme

- MSW disposal
- Waste-to-Energy

Company description

Harvest Waste develops, engineers, finances, and operates Waste-to-Energy (WtE) projects. Using its unique High Efficiency WtE technology, Harvest Waste can generate >25% more net electricity per ton of waste treated than conventional WtE based on moving grate incineration technology and make WtE projects an economically feasible alternative to landfilling also in countries that now rely mostly on dumping of waste. Our projects are carbon negative and eligible for carbon credits!

Products & Services

Waste-to-Energy (WtE) plants are large size plants with a treatment capacity of $\geq 1,500$ tpd of mixed (unsegregated) municipal solid waste (MSW), turning this efficiently into sustainable baseload electricity following the strictest emission standards to make future proof plants which are the cornerstone of the circular economy.

Harvest Waste

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Procomat

Core theme

- Smart Systems
- Transport

Company description

Procomat produces high-quality waste bins and uses IoT technology and software to ensure efficient waste collection. The smart bins use a solar powered pressing-mechanism (average compaction ratio of waste 1:6) and connect via build-in GPS module to our own software platform CleanCityManager (CCM). Highly efficient route optimisation leads to cost savings up to 75%, no time wasted, no street litter, and CO2 emission reductions!

Products & Services

- Smart, compact, and sustainable public wastebins functioning on solar technology.
- Waste management software.

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Sidcon Milieutechniek

Core theme

- Underground waste compactors
- Innovative solutions for waste collection

Company description

Sidcon produces underground compaction containers and develops new solutions for waste collection and perfect systems to gather and evacuate waste from locations with high waste generation. In addition, the company offers maintenance and data/helpdesk services to increase the efficiency of its products.

Products & Services

- The Presstation Pro is an underground compacting container that fits well in any existing underground infrastructure for waste collection and can be used with standard collection vehicles and concrete pits. The result: less transport, less visible street containers and a more attractive and safer streetscape.
- The Freshstation Organic is a collection container for BIO waste in and around apartment blocks. The Freshstation is applied with cooling, making it fit for use in the direct vicinity of residents. It improves service without nuisance, providing residents of apartments with their own organic waste composting system.

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Van Werven Plastic Recycling

Core theme

- Plastic Recycling

Company description

Van Werven specialises in creating high-quality raw materials from post-consumer rigid plastics. Input is mainly from environmental stations and sorting installations for building and commercial waste. Output PP, PE, HDPE and PVC flakes in different grades and high volumes based on customers specifications. Our total capacity in 2021 is 150 million kg of recycle per year. With our recycling process we also save 400.000 tonnes of CO2 every year.

Products & Services

- Input: Bulky rigid post consumer plastics
- Output: PP, PE, HDPE, PVC flakes
- Presence in Asia
- Current presence only in Europe

Van Werven Plastic Recycling

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VDL Translift

Core theme

- Waste collection
- Waste logistics

Company description

VDL Translift is a specialist in innovative waste collection systems. The company provides solutions for above and underground waste collection. With their side loaders and crane systems they can help find the best integrated solution to a collection or transport problem. A suitable system for every collection method and any deployment situation, resulting in strongly improved working conditions and a high safety level. Supplying innovative electrical waste collection systems to be implemented into a zero-emission program is part of the product range. VDL Translift is located in Dronten, the Netherlands, and exports worldwide.

Products & Services

- Development of efficient waste collection vehicles.
- Advice in waste management solutions.

VDL Translift

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