



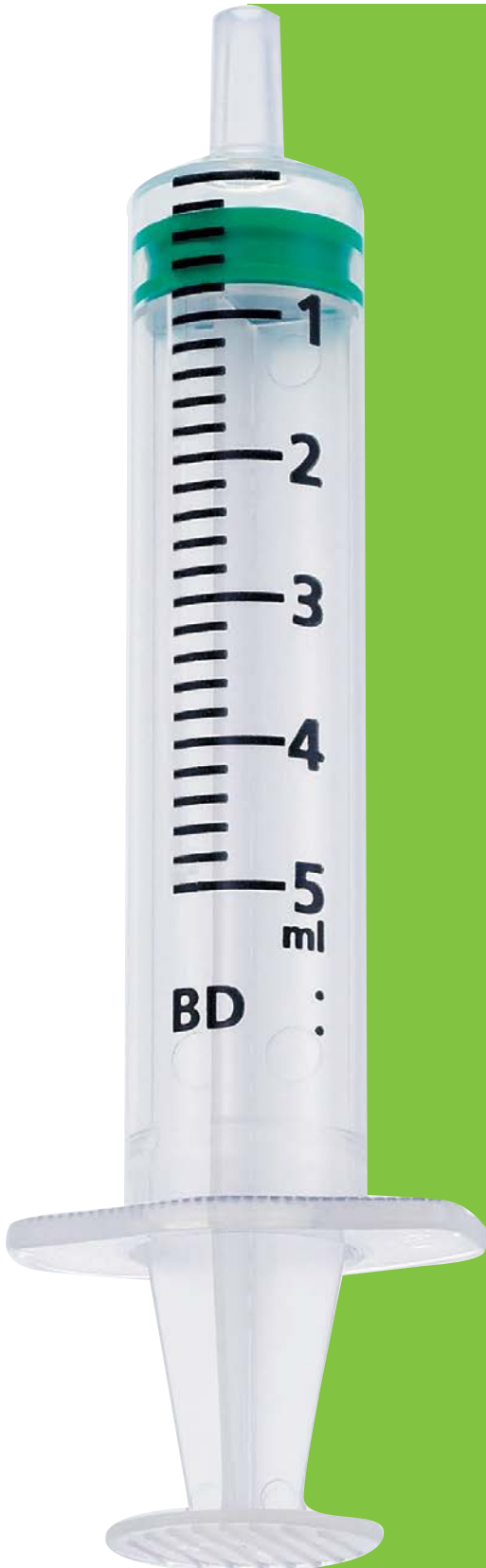
# The BD Emerald™ Syringe

Because human health and a healthy environment are inseparable



# A Step Toward A Greener Future

Sustainable practices play a role in the key operational aspects involved in creating BD Emerald™ Syringes



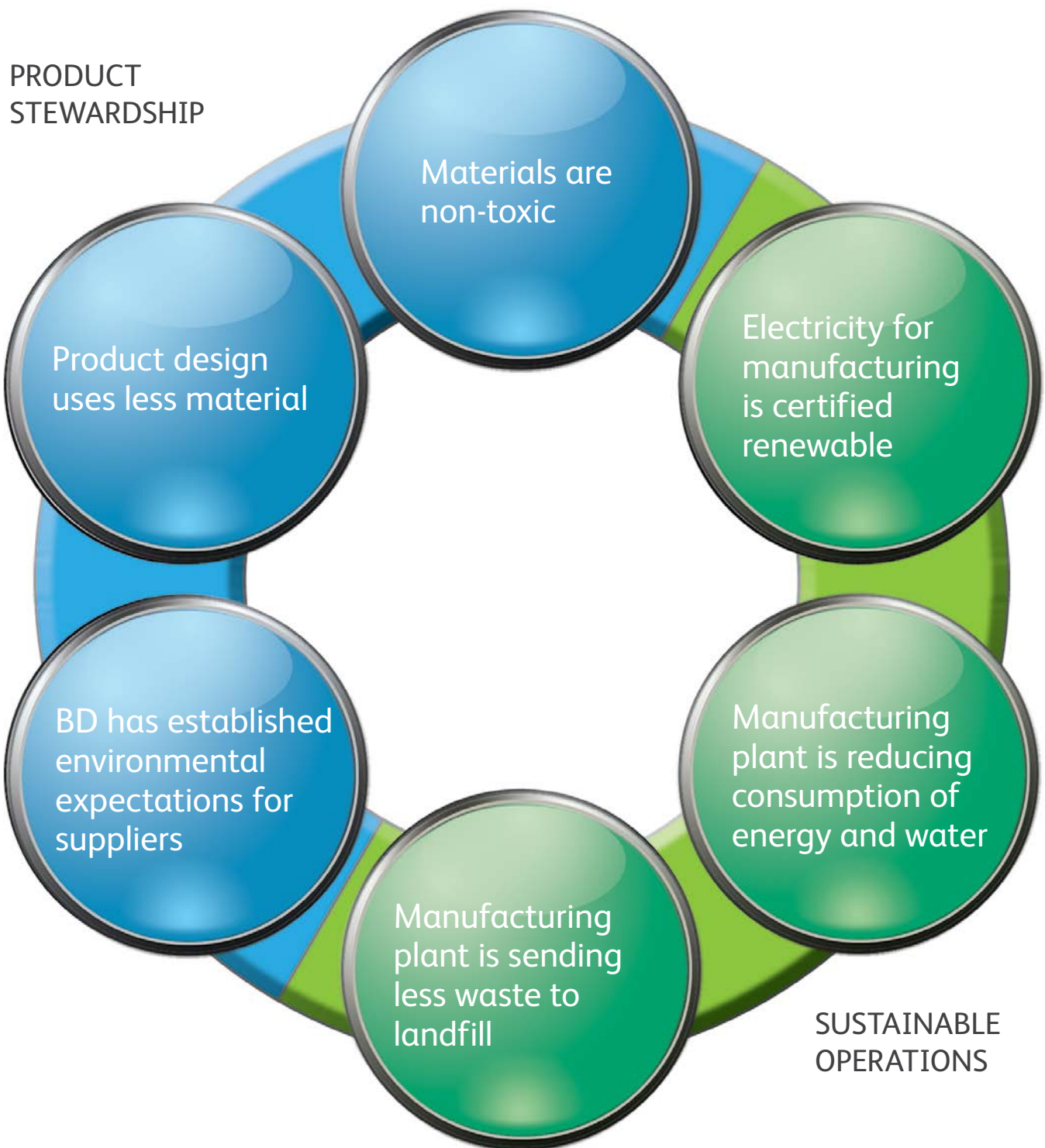
## The BD Emerald™ Syringe Portfolio Of Products:

- Uses **less material** than other syringes\*
- Is manufactured with **100% renewable electricity\*\***  
2, 5 and 10 ml only
- Long-distance **transportation and fuel use are reduced** because of a worldwide manufacturing network
- BD's Fraga, Spain facility for the BD Emerald™ Syringe is **certified to the ISO 14001** standard for Environmental Management Systems

\*Data on file. Based on combined average of leading syringe brands worldwide.

\*\* Fraga plant

The BD Emerald™ Syringe reduces environmental impact through the following holistic approach:



# A Product Design That Respects The Earth

Every component of the new product line has been evaluated from a “green” perspective

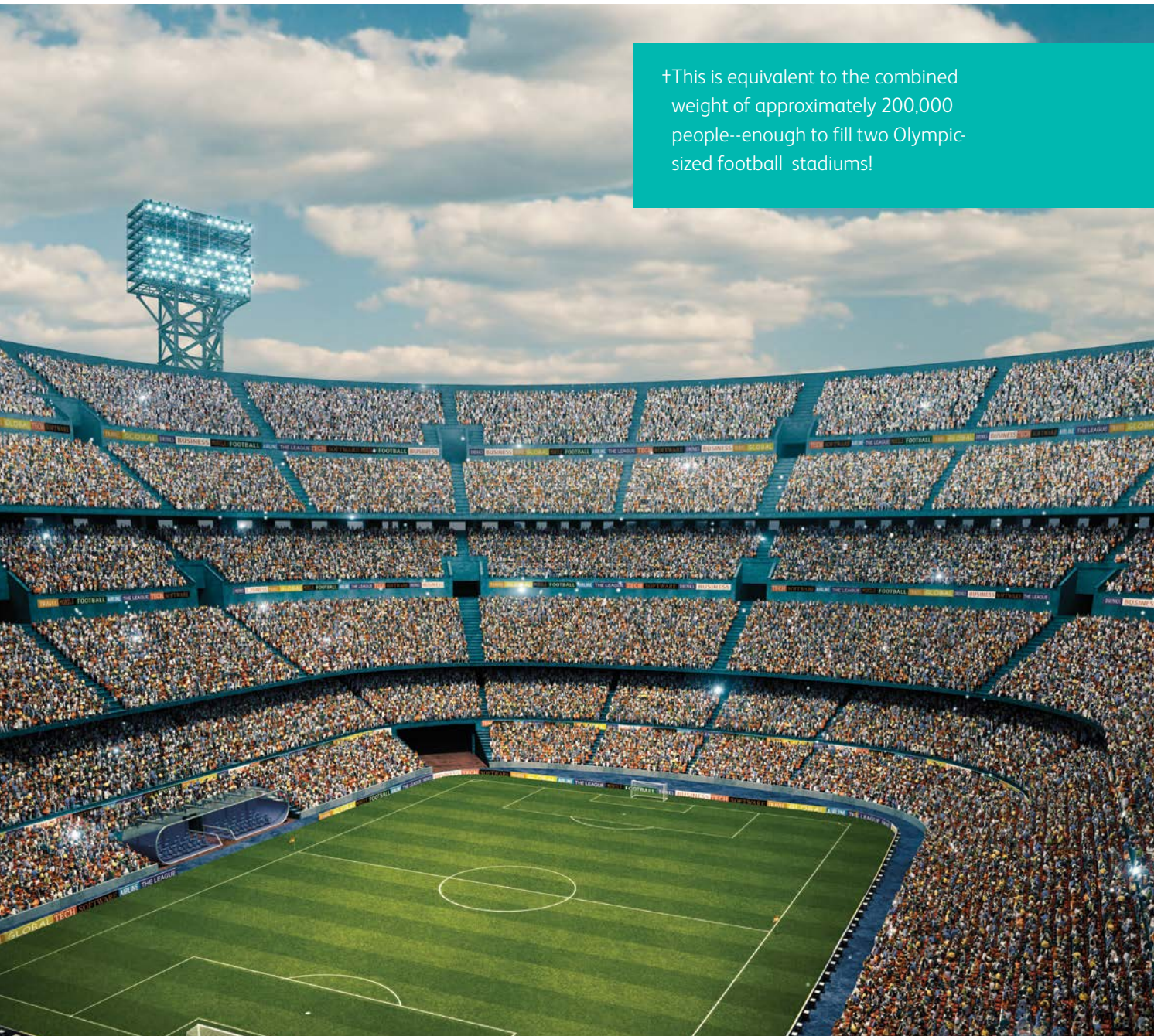
The BD Emerald™ Syringe is made from non-toxic materials.

- The product is not made with natural rubber latex.
- No DEHP and PVC intentionally added.
- Finished products must pass toxicity tests to confirm the manufacturing process does not affect material safety.
- Every relevant component of the BD Emerald™ Syringe is tested to ensure the product will meet ISO 10993 requirements for biocompatibility.

# Reduce impact on material usage and disposal.

If half of the world's syringes could be converted to BD Emerald™ Syringes, we could save up to 15,000,000 kg of plastic† from waste streams each year.

†This is equivalent to the combined weight of approximately 200,000 people--enough to fill two Olympic-sized football stadiums!



\*Data on file. Based on combined average of leading syringe brands worldwide.

# BD In Fraga, Spain Reduces Environmental Impact

The BD Emerald™ Syringe is manufactured in a plant that is committed to sustainable production

## Energy Sources



At the Fraga plant, 100% of the electricity is from renewable sources—which saved 21,000 metric tons of CO<sub>2</sub> emissions in 2010.

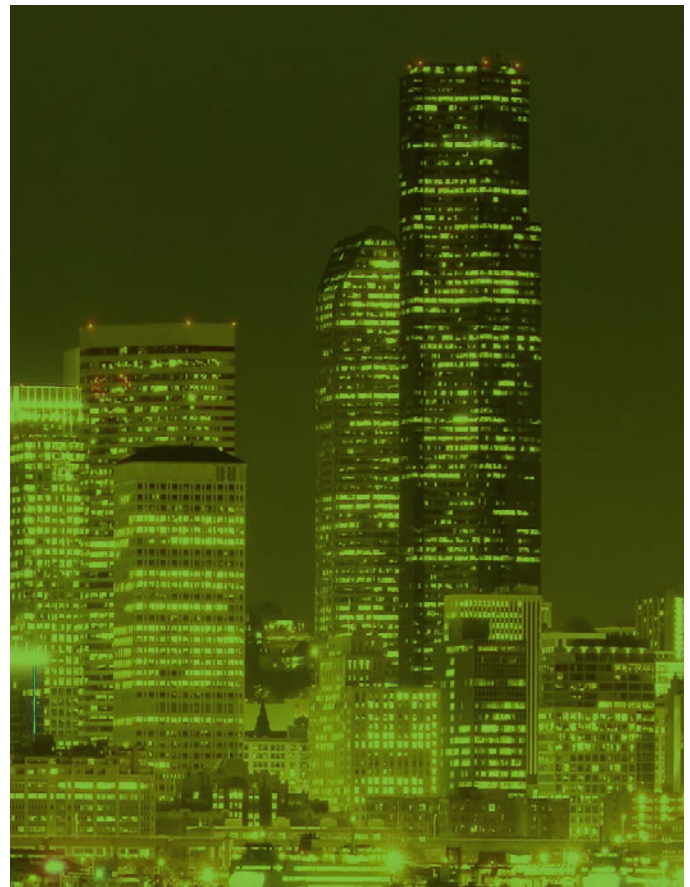
## Energy Consumption



From 2008-2010, annual electricity consumption in the Fraga plant decreased by 4.7 million kWh.



Equivalent to taking 4200 cars off the road for a year!



Enough energy to power 9000 lightbulbs for one year!

## Water Conservation



From 2008-2010, annual water consumption in the plant decreased by 33.5 million liters.

## Reduction In Landfill Waste



From 2008-2010, the waste sent to landfill decreased by over 73,000 kgs.



Enough to provide 45,925 people with drinking water for one full year!



Equivalent to annual household waste generated by about 140 people!

# A Commitment To Sustainability

By 2020, we aim to:

- Reduce energy consumption from operations by 40%\*
- Increase renewable energy use in BD's portfolio to 50%\*
- Reduce the use of water by 40%\*
- Reduce hazardous waste generation by >60%\*
- Reduce total waste generation by 50%\*

\*BD Sustainability Report 2014, [bd.com/sustainability](http://bd.com/sustainability)

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0000CF02928 Issue 1. June 2016.

