

Extract of HUMAN's Environmental Statement 2020

1. Introduction

Company HUMAN Gesellschaft für Biochemica und Diagnostica mbH (HUMAN) is a globally acting manufacturer of in-vitro-diagnostic (IVD) reagents and devices. Offering a broad product portfolio and a distribution and service network in more than 150 countries, HUMAN represents a leading supplier within the international diagnostics market.

The portfolio focuses on clinical diagnostics as well as on hematology, ELISA and autoimmune assays.

Founded 1972 in Germany, HUMAN has continuously grown and currently employs approximately 280 staff at sites in Wiesbaden and Magdeburg. Further 15 employees are located at the sales and service offices in India, PR China, UAE, Ethiopia, Panama and Singapore. Since 2004, HUMAN was part of Dr. Schmidt Biotech Group, which has been renamed in olicoo GmbH in August 2019. In 2013, German IVD analyzer producer LABiTec GmbH, located close to Hamburg, was acquired.

'Made in Germany' is HUMAN's promise to quality. Research & development and modern manufacturing conditions in Germany are basis for growth, which is part of HUMAN's philosophy.

HUMAN complies with all applicable European Directives and Ordinances and therefore stands for product reliability and quality also outside of Europe.

Following the mission to offer reliable diagnostics in good quality for attractive prices HUMAN presents one of the most important players outside of Western Europe, Japan and the USA. Sales focus by 98% on emerging and developing countries. HUMAN operates a network comprising more than 150 distributing partners and 6 own sales and service offices ensuring local client support. HUMAN is also well-approved supplier of many international NGOs.

Generating revenues of over 53 Million EUR in 2019 HUMAN operates profitably. HUMAN's business characteristics overview:

- Global player on in-vitro-diagnostics (IVD) sector offering a broad portfolio of laboratory diagnostic products.
- R&D and manufacturing with focuses on clinical chemistry, ELISA, hematology, as well as rapid tests and autoimmune assays.
- 3 sites in Germany: Wiesbaden (headquarters), Magdeburg (manufacture and R&D) and Ahrensburg close to Hamburg (subsidiary LABiTec)
- Sales focus on emerging and developing with sales network including more than 150 countries.

Being a manufacturer of IVD, HUMAN is regulated by the German Medical Products Law, which implements the obligations of the European IVD Directive (98/79/EC) into national law. Company HUMAN as manufacturer as well as the CE labeled products are registered at and supervised by the German pertinent authorities.

HUMAN's success is based on compliance with regulatory obligations and customer fulfillment. The long-term established quality management system, which is certified according to ISO 9001 and ISO 13485, represents a key pre-condition.

As owner, management and employees of HUMAN feel dedicated to environmental protection, an integrated environmental management system according to ISO 14001 und EMAS III (1221/2009/EC) was implemented in 2015 and maintained since then at the main sites in Wiesbaden and Magdeburg.

Environmental milestones for the Wiesbaden site:

- 2005: Renovation of heating and ventilation system of older building part
- 2009: Completion of new building part
- 2009: Installation of a geothermal unit for heating and air-conditioning within the new building part (heating capacity: 273 kW, cooling capacity: 233 kW)
- 2009: Installation of photovoltaic modules on new building part (peak capacity: 44 kW)
- 2009: Use of 50% renewable electricity
- 2010-2013: Interior modernization of old building part
- 2011: Roof renovation
- 2012: New cooling system for warehouse
- 2014: Use of 100% renewable electricity
- 2015: Installation of photovoltaic modules on old building part (peak capacity: 47 kW)
Certification according to ISO 14001 und EMAS III
- 2017: Installation of chargers for E-Cars and E-Bikes
- 2017: Installation of LED lighting in parts of the warehouse
- 2018: First company plug-in-hybrid vehicles in use
- 2018: EMAS and ISO 14001 Re-certification (2015 standard version)
- 2019: Expansion of LED illumination
- 2020: Installation of additional E-Car charging stations (4 new ports)

Environmental milestones for the Magdeburg site:

- 2012: Use of 50% renewable electricity
- 2013: Installation of photovoltaic modules (peak capacity: 60 kW) and solar thermal unit (capacity: 15 kW) on the new building part
- 2013: LED illumination in new building part
- 2014: Use of 100% renewable electricity
- 2014: Illumination conversion to LED in old building part
- 2015: Certification according to ISO 14001 und EMAS III
- 2016: Eco-Modernization (reduced electricity consumption) of major climate control unit
- 2018: Expansion of present photovoltaic unit from 60 kW to ca. 99 kW peak capacity on the new building part
- 2018: LED illumination in production area (old building part) with savings potential of approximately 65%
- 2018: EMAS and ISO 14001 Re-certification (2015 standard version)
- 2019: Replacement of a piston compressor by a screw compressor
- 2020: Installation of chargers for E-Cars, first Plug-In-Hybrid company cars

2. Environmental Policy

Expressing entrepreneurial responsibility, owner, management and employees of HUMAN feel highly obliged to the sustainable use of natural resources and environmental protection including the prevention of environmental impacts beyond HUMAN's company boundaries.

Therefore, a certified environmental management system for all sites is established and maintained, which implements the requirements of the International Standard ISO 14001 and the European EMAS Directive. According to these guidance Human reviews the environmental management system regularly with regard to HUMAN's obligation for continuous improvement of the environmental performance.

The environmental policy of HUMAN is characterized by its environmental guidelines. Environmental management measures are regularly aligned with the environmental policy and attached guidelines.

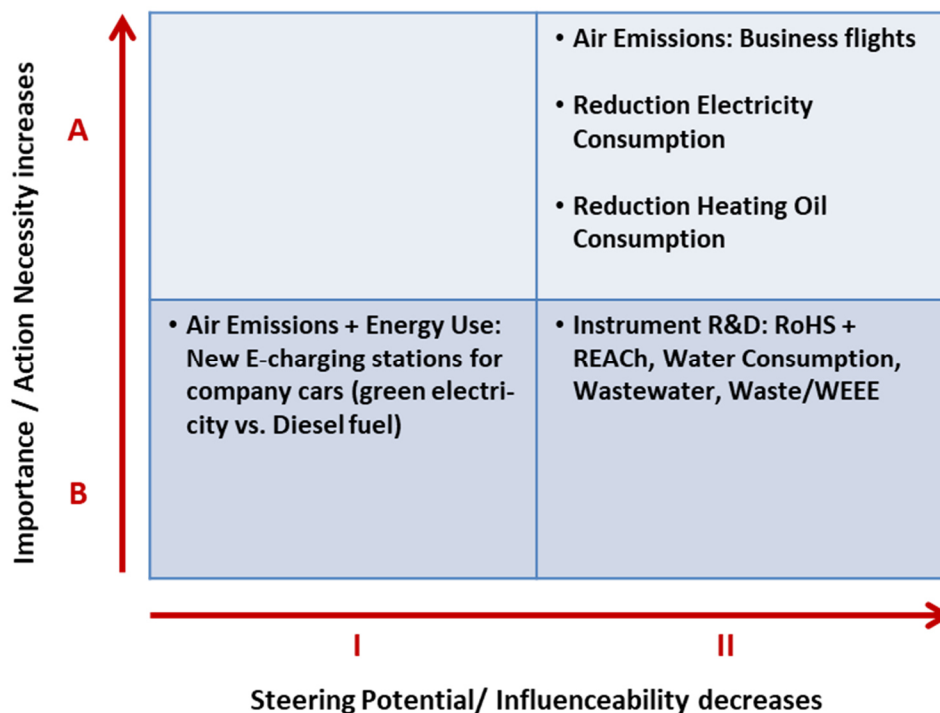
Environmental Guidelines:

- Compliance with all applicable environmental laws and regulations and other binding obligations of the Company are jointly guaranteed by all parties involved.
- In the design of business processes preferably renewable resources are used. The proportion of renewable energy generated at the HUMAN locations is increased to the extent possible.
- Decisions on investments, suppliers, products, intermediates and raw materials are made considering environmental effects.
- The planning of business travel and logistics accounts for steady reduction of the ecological footprint as well as attenuation of the climate change, as far as technically and economically feasible.
- The management of hazardous substances is designed such that the risk of environmental damage is minimized - including emergency situations.
- HUMAN employees are actively involved in the definition and implementation of measures to improve environmental performance. All Human employees contribute to a responsible environmentally friendly behavior of HUMAN.
- Suppliers and contractors are requested to consider the HUMAN environmental policy.
- HUMAN openly publishes information on environmental performance and welcomes suggestions from the public. The systematic environmental management is used to continuously improve the environmental performance of HUMAN, whenever possible also beyond the legally required level. It is achieved through a systematic operational environmental monitoring and targeted prevention of environmental impacts.

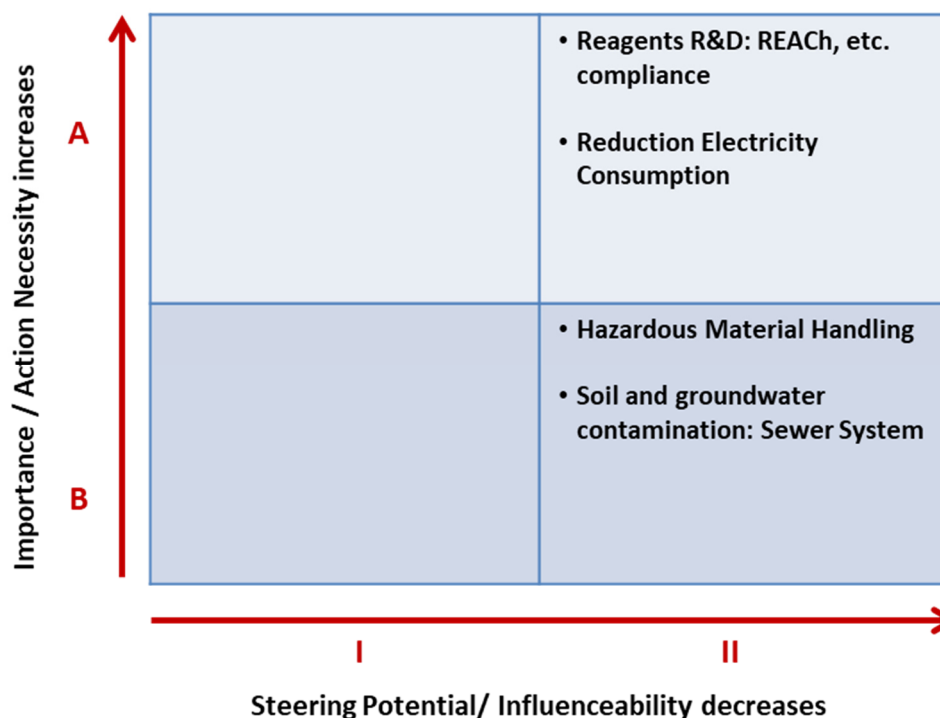
3. Environmental Aspects

The following environmental aspects are currently considered important at the HUMAN subject sites:

Wiesbaden Site



Magdeburg Site



4. Important Environmental Objectives 2019/2020

<i>Objective</i>	<i>Action</i>	<i>Goal</i>
Compensation of CO₂-Emissions generated by business flights	<p>⇒ Expenditure of up to 1% profit for compensation measures</p> <p>⇒ Reduction efforts with respect to business flights (i.e. by video conferencing)</p>	<p>Annual compensation of 750 t CO₂-Output at minimum – Goal achieved for 2019.</p> <p>Compensation achieved via donations to Nature Foundations Bergwaldprojekt e.V. and Michael Succow (10 kEUR each). Compensation continuation is planned for 2020.</p>
Reduction of emissions generated by business travel (automotive)	<p>⇒ Annual review and adjustment of HUMAN's internal guideline on company cars</p>	<p>Reduction of fossil fuels use by increased acquisition of Plug-In-Hybrids and E-Cars as company cars.</p>
Environmental Communication	<p>⇒ Environmental Newsletter for employees and clients</p>	<p>Improving environmental communication and awareness by releasing environmental news</p> <p>Status 2019: Newsletters III and IV in June and December 2019 released. To be continued.</p>
Reduction of electricity consumption (i.e. by LED technology)	<p>⇒ Reduction < 12 kWh/T€ at Wiesbaden site</p> <p>⇒ Reduction < 30 kWh/T€ at Magdeburg site</p>	<p>To be achieved until end of 2020.</p> <p>Status 2019: WI – 11.1 kWh/T€ MD – 30.5 kWh/T€</p>
Reduction of heating oil consumption at Wiesbaden site	<p>⇒ Reduction < 4,6 kWh/TEUR</p>	<p>To be achieved until end of 2020.</p> <p>Status 2019: 4.7 kWh/T€</p>
Photovoltaic electricity generation	<p>⇒ Increase > 80 MWh/a at Magdeburg site</p>	<p>Goal achieved. Status 2019: 93 MWh/a</p>
Reduction Emissions generated / Renewable Energies	<p>⇒ Installation of an additional E-Car charging station (4 new ports) due to increased demand</p>	<p>The charging station has been installed in June 2020.</p> <p>Goal until 31.12.2021: Consumption of at minimum 5000 kWh green electricity for company and private car charging (Plug-In-Hybrids and E-Cars), which would lead to a decreasing use of fossil fuels.</p>
Prevention of soil and groundwater contamination: Sewer System	<p>⇒ Sewer system camera inspection and renovation, if necessary</p>	<p>Sewer system camera inspection in 2020</p>

5. Environmental Performance

Bold data are key indicators according to EMAS III.

Wiesbaden Site

Energy, Water and Material Consumption

Key figures	Unit	2015	2016	2017	2018	2019
Electricity	MWh	438.05	570.97*	629.03*	614.71*	596.90*
Electricity /Turnover	kWh/kEUR	8.72	11.10	12.09	11.89	11.10
Heating energy	MWh	172.14	208.95	248.76	240.92	254.60
Heating energy /Turnover	kWh/kEUR	3.43	4.06	4.78	4.66	4.73
Diesel (for business rides)	MWh	44.32	49.17	50.69	44.73	42.74
Diesel /Turnover	kWh/TEUR	0.88	0.96	0.97	0.87	0.80
Total Energy Consumption	MWh	654.51	829.09	928.49	900.36	894.25
Total Energy Consumption/ Turnover	kWh/kEUR	13.03	16.12	17.84	17.41	16.63
On-site generation of geothermal energy (less electricity consumption of heat pump)	MWh	818.49	880.18	886.79	712.04	840.14
Additional generated Electricity from photovoltaic modules No. 2 (used at the site)	MWh	29.66	43.11	48.50	52.96	44.18
Total Use of Renewable Energy (proportion of Green Electricity and geothermal energy)	MWh	1286.20	1494.26	1564.32	1379.71	1481.22
Proportion of Renewable Energy Use out of the Total Energy Use**	%	85.60	85.27	83.93	82.85	83.28
Additional generated Electricity from further photovoltaic modules No. 1***	MWh	46.81	44.10	45.82	50.06	48.0
Total Water Consumption	m ³	903	888	886	1668	1044
Total Water Consumption/ Turnover	l/kEUR	17.98	17.27	17.03	32.25	19.41
Paper Consumption	t	3.00	4.00	3.00	3.50	2.00
Paper Consumption/Turnover	g/kEUR	59.74	77.79	57.65	67.67	37.19

* Electricity meter exchange on 24.03.2016: The new digital meter displays raised power consumption (approx. 15%). This could mean that the power consumption during the past years might have been displayed too low.

**The total energy use comprises the total energy consumption plus the on-site generated and used energy.

***Not included within the proportion of renewable energy sources as not consumed on-site, but supplied into the local public electricity network.

Non-hazardous waste

Key figures	Unit	2015	2016	2017	2018	2019
Total Non-hazardous Waste Generation	t	44.85	40.62	37.70	53.56	61.53
Total Waste Generation/Turnover	g/kEUR	893.03	789.97	724.46	1035.46	1144.04

Hazardous waste

Key figures	Unit	2015	2016	2017	2018	2019
Total Hazardous Waste Generation	t	9.14	7.76	8.99	6.21	5.62
Total Hazardous Waste Generation/Turnover	g/kEUR	182.03	150.92	172.76	120.01	104.49

Air Emissions

Key figures	Unit	2015*	2016*	2017*	2018*	2019*
Greenhouse Gases	t CO ₂ -eq.	653.55	547.59	543.68	479.70	511.10
Greenhouse Gases (without business flights)	t CO ₂ -eq.	60.63	72.68	82.33	79.62	81.42
Total Greenhouse Gases/ Turnaround	kg CO₂-eq./kEUR	13.02	10.58	10.48	9.28	9.50
NO _x Emissions	kg	2486.26	2001.88	1943.99	1692.93	1816.09
NO_x Emissions/Turnover	g/kEUR	49.51	38.93	37.36	32.73	33.77
SO ₂ Emissions	kg	1898.06	1532.54	1496.06	1302.04	1397.65
SO₂ Emissions/Turnover	g/kEUR	37.80	29.80	28.75	25.17	25.99
PM 10 Emissions	kg	35.68	31.68	31.06	28.82	30.43
PM 10 Emissions/Turnover	g/kEUR	0.71	0.62	0.60	0.58	0.57

* including Air Emissions generated by business flights and business rides

Magdeburg Site

Energy, Water and Material Consumption

Key figures	Unit	2015	2016	2017	2018	2019
Electricity*	MWh	954.84	1030.56	1016.51	1056.87	1028.95
Electricity/Turnover	kWh/kEUR	32.706	32.62	31.31	33.53	30.52
Heating energy	MWh	914.58	975.63	1060.72	1099.75	903.64
Heating energy/Turnover	kWh/kEUR	31.33	30.89	32.67	34.89	26.81
Diesel (for business rides)	MWh	8.21	14.61	16.90	17.40	14.91
Diesel /Turnover	kWh/TEUR	0.28	0.46	0.52	0.55	0.44
Total Energy Consumption	MWh	1877.64	2020.80	2094.12	2156.62	1932.59
Total Energy Consumption/ Turnover	kWh/kEUR	64.32	63.97	64.49	68.97	57.33
Electricity generated by photovoltaic (PV) unit	MWh	57.75	55.81	52.44	95.00	15.46
Total Use of Renewable Energy (proportion of Green Electricity and PV electricity)	MWh	1012.60	1086.36	1068.95	1151.87	1121.73
Proportion of Renewable Energy Use out of the Total Energy Use**	%	52.32	52.31	50.19	50.77	55.38
Total Water Consumption	m ³	7786	6773	7754	7212	7267
Total Water Consumption/ Turnover	l/kEUR	266.70	214.41	238.80	228.80	215.57
Paper Consumption	t	17.1	17.5	19.0	14.0	15.7
Paper Consumption/Turnover	g/kEUR	584.02	553.99	588.13	444.14	465.73

* Without the on-site generated used PV electricity.

** The total energy use comprises the total energy consumption plus the on-site generated and used energy.

Non-hazardous waste

Key figures	Unit	2015	2016	2017	2018	2019
Total Non-hazardous Waste Generation	t	60.11	60.13	66.79	54.45	55.27
Total Waste Generation/Turnover	g/kEUR	2058.96	1903.64	2056.89	1727.40	1639.53

Hazardous waste

<i>Key figures</i>	<i>Unit</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>
Total Hazardous Waste Generation	t	21.67	26.59	24.14	26.27	24.22
Total Hazardous Waste Generation/Turnover	g/kEUR	742.27	841.75	743.43	833.40	718.46

Air Emissions

<i>Key figures</i>	<i>Unit</i>	<i>2015*</i>	<i>2016*</i>	<i>2017*</i>	<i>2018*</i>	<i>2019*</i>
Greenhouse Gases	t CO ₂ -eq.	201.70	216.13	235.86	238.70	199.87
Total Greenhouse Gases/ Turnaround	kg CO₂-eq./kEUR	6.91	6.84	7.26	7.57	5.93
NO _x Emissions	kg	76.05	78.05	90.70	94.07	77.35
NO_x Emissions/Turnover	g/kEUR	2.61	2.47	2.61	2.98	2.30
SO ₂ Emissions	kg	1.06	0.98	1.31	1.40	1.06
SO₂ Emissions/Turnover	g/kEUR	0.04	0.03	0.04	0.04	0.03
PM 10 Emissions	kg	10.11	9.76	12.38	13.02	10.38
PM 10 Emissions/Turnover	g/kEUR	0.35	0.31	0.38	0.41	0.31

* including Air Emissions generated by business rides

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