

Contents

Read this first	5
Then do this	8
The environmental review starts here	11
1 About this environmental review	13
Scope and purpose	13
Methods	13
2 Description of operations	15
The company	15
Manufacturing processes	17
3 Legal and other requirements	19
4 Accidents	23
Accidents and near accidents	23
Risk of accidents	25
5 Raw materials and components	27
6 Chemicals and chemical products	29
Use of chemicals	29
Handling	31
Environmentally hazardous chemicals	31
7 Energy consumption	35
8 Waste and recycling	39
Hazardous waste	39
Sorted waste	39
Other waste	41
9 Impact on the surrounding area	43
Water and waste	43
Land discharges	45
Air emissions	47
Noise	47
10 Transportation	49
Goods transportation	49
Trips to and from work	53
Business trips	57
11 The products	59
Outflow of products and packaging	59
The environmental impact of the products during use and end-of-life disposal	61
12 Summary of emissions and consumption of resources	63
Material and energy flow analysis	63
Quantification with Environmental Load Units	67
13 Evaluation of environmental aspects	71
Environmental FMEA	71
Improvement proposals	75
14 References	77
Basis for calculations	77
Related documents	77
List of acronyms and abbreviations	79

Tables

0.1	Chart for tracking progress	9
2.1	Description of Company X	15
2.2	Manufacturing processes at Company X	17
3.1	Legal and other requirements – the most important	21
4.1	Accidents at Company X	23
4.2	Risk of accidents at Company X	25
5.1	Annual consumption of raw materials and components	27
6.1	Consumption of various types of chemicals	29
6.2	Chemicals handling	31
6.3	Hazardous chemicals	33
7.1	Annual energy consumption	35
7.2	Emissions and resource consumption for the production of the company's energy	35
7.3	Comparisons of energy indicators	37
7.4	Energy consuming processes	37
8.1	Hazardous waste	39
8.2	Sorted waste	39
8.3	Other waste	41
9.1	Water consumption	43
9.2	Comparisons of water indicators	43
9.3	Land discharges	45
9.4	Air emissions from the plant	47
9.5	The largest noise sources	47
10.1	Annual resource consumption from goods transportation	49
10.2	Annual emissions from goods transportation	51
10.3	Comparisons of indicators for goods transports	51
10.4	Annual trips to and from work	53
10.5	Annual emissions and resource consumption for trips to and from work	55
10.6	Comparisons of indicators for travel to and from work	55
10.7	Annual emissions and resource consumption from business trips	57
10.8	Comparisons of indicators for business indicators	57
11.1	Products and packaging	59
11.2	The environmental impact of the products	61
12.1	Inflows	63
12.2	Outflows	65
12.3	Indirect air emissions	65
12.4	Comparisons of ELU indicators	69

Figures

1.1	Process	17
6.1	Danger symbols	33
12.1	Example of an EPS analysis of the environmental impact	67

Supplements

1	Contents of Inventory.xls
2	Questionnaire about travel and environmental habits at Company X
3	Calculation examples
4	Contents of Environment FMEA.xls
5	Alternatives