

ISO/TR 14047:2003-10 (E)

Environmental management - Life cycle impact assessment - Examples of application of ISO 14042

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Abbreviated terms	1
4.1	Mandatory and optional elements	3
4.2	Scope of examples	3
4.3	Organization of document and route map	4
5	Elements of LCIA as illustrated in the examples	6
5.1	General	6
5.2	Mandatory elements	6
5.3	Optional elements (related to ISO 14042:2000, Clause 6)	15
6	Examples of the mandatory elements of LCIA	17
6.1	General	17
6.2	Example 1 -- Use of two different materials for gas pipelines	17
6.3	Example 2 - Two acidification impact category indicators	24
6.4	Example 3 -- Impacts of greenhouse gas (GHG) emissions and carbon sinks on forestry activities	29
6.5	Example 4 - Assessment of endpoint category indicators	38
6.6	Example 5 - Choice of material for a wind spoiler in car design study	45
7	Examples of the optional elements of LCIA	51
7.1	General	51
7.2	Example 1 -- Application of optional elements in ISO 14042:2000, 6.2 Calculating the magnitude of the category indicator results relative to reference information (normalization)	51
7.3	Example 2 -- Application of optional elements in ISO 14042:2000, 6.2 Calculating the magnitude of the category indicator results relative to reference information (normalization)	52
7.4	Example 6 - Normalization of LCIA indicator results for the use of different refrigerator gases in ISO 14042:2000, 6.2 Calculating the magnitude of the category indicator results relative to reference information (normalization)	54
7.5	Example 7 - Normalization in a waste management study using ISO 14042:2000, 6.2 Calculating the magnitude of the category indicator results relative to reference information (normalization)	61
7.6	Example 1 -- Application	68
7.7	Example 5 -- Application of ISO 14042:2000, 6.4 Weighting	69
7.8	Example 8 - A technique for the determination of weighting factors using ISO 14042:2000, 6.4 Weighting	70
7.9	Example 1 -- Application	75
7.10	Example 5 -- Application of ISO 14042:2000, Clause 7 Data quality analysis	77
7.11	Example 1 -- Application	78
Bibliography		85