

ISO 21053:2019 (E)

Life cycle analysis and recycling of ductile iron pipes for water applications

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Basic concept of life cycle cost
4.1	Definition of life cycle cost
4.2	Calculation method
5	Breakdown of life cycle cost
5.1	Acquisition cost
5.2	Operation cost
5.3	Maintenance cost
5.4	End of life cost or revenue
6	Key drivers for life cycle cost reduction
Annex A	(informative) Pumping cost
A.1	Pumping cost
A.2	Daily pumping energy
A.3	Total head (H)
Annex B	(informative) Scenario of LCC with different pipelines
Annex C	(informative) Leakage incident rate of ductile iron pipes
C.1	Water leakage evaluation
C.2	Example of leakage incident rate of ductile iron pipe network
C.2.1	General
C.2.2	Example in Japan
C.2.3	Example in France
C.2.4	Example in Germany

Page count: 15