Record Nr. UNINA9910814183603321 Triple bottom line evaluation of biosolids management options / / by **Titolo** Mike Elenbaas [and five others] Pubbl/distr/stampa Alexandria, Virginia:,: Water Environment Research Foundation,, 2014 ©2014 **ISBN** 1-78040-717-3 Descrizione fisica 1 online resource (132 p.) Disciplina 628.364 Soggetti Sewage sludge - Environmental aspects Sewage - Purification Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. ""Cover""; ""Copyright""; ""Acknowledgments""; ""Abstract and Benefits""; Nota di contenuto ""Table of Contents""; ""List of Tables""; ""List of Figures""; ""List of Acronyms""; ""Executive Summary""; ""Chapter 1.0: Introduction""; ""1.1 Assessing Biosolids Management Options"; ""1.2 Background""; ""1.3 What is a Triple Bottom Line Approach?""; ""Chapter 2.0: Triple Bottom Line Evaluation""; ""2.1 Background: WERF TBL Tool for Assessing Biosolids Options""; ""2.2 General Considerations""; ""2.2.1 Defining the Scope of the TBL Analysis""; ""2.2.2 Selecting TBL Criteria and Sub-Criteria"" ""2.3 Economic Criteria for This TBL Analysis"""2.3.1 Lifecycle Economic Assessment""; ""2.3.2 Engineering/Technical Criteria""; ""2.3.3 Additional Considerations""; ""2.4 Environmental Criteria for This TBL Analysis""; ""2.4.1 Use of LCA Within the Environmental Criteria""; ""2.4.2 Examples of Environmental Criteria Considered, But Not Included""; ""2.5 Social Criteria for the TBL Analysis""; ""2.5.1 Nuisance Issues""; ""2.5.2 Workplace Conditions""; ""2.5.3 Public Engagement""; ""2.5.4 Social Criteria Focus on Inherent Qualities of a Biosolids Management Option"" ""2.5.5 Examples of Social Criteria Considered, But Not Included""""2.6 The Criteria: Metrics, Weighting, Normalizing, and Sensitivity Analysis"";

""2.6.1 Choosing Metrics for Criteria""; ""2.6.2 Weighting the Criteria"";

""2.6.3 Normalizing Scores for Comparison""; ""2.6.4 Sensitivity
Analysis""; ""Chapter 3.0: Overview of Six Scenarios Selected for Triple
Bottom Line Analysis""; ""3.1 1X/1Y - Anaerobic Digestion, CHP with
Pretreatment""; ""3.2 2X/2Y - Anaerobic Digestion, CHP with
Codigestion""; ""3.3 3Y - Incineration with Landfill Disposal""
""3.4 4Y - Gasification with Landfill Disposal"""Chapter 4.0: Discussion
of Scoring""; ""4.1 Economic Scoring""; ""4.2 Environmental Scoring"";
""4.3 Social Scoring""; ""4.3.1 Public Engagement""; ""4.4 Stakeholder
Involvement in Criteria Weightings""; ""Chapter 5.0: Triple Bottom Line
Results for Research Guidance""; ""5.1 Economic Results""; ""5.2
Environmental Results""; ""5.2.1 Results for Conservation/Optimization
of Resources""; ""5.2.2 Results for Net Impacts to Media""; ""5.2.3
Results for Regulatory Flexibility""; ""5.3 Social Results""; ""5.3.1 Results
for Nuisance Issues""

""5.3.2 Results for Workplace Conditions"""5.3.3 Results for Public Engagement""; ""5.4 Research Guidance Case Results""; ""Chapter 6.0: Triple Bottom Line Results for Utility Decision Making""; ""6.1 Utility Decision Making""; ""6.2 Sensitivity Analysis and Discussion""; ""6.2.1 Assumptions Used for Sensitivities""; ""6.2.2 Low Electric and Gas Cost Sensitivity""; ""6.2.3 High Electric and Gas Cost Sensitivity""; ""6.2.4 Carbon Cap Sensitivity""; ""6.2.5 Applying Different Criteria Weights Sensitivity""; ""Chapter 7.0: Conclusions and Findings""; ""7.1 Research Guidance TBL Model Findings""

""7.2 Utility Decision-Making Results Findings""