

1. Record Nr.	UNINA9911026043503321
Titolo	Approaches to Cost-Benefit Analysis of New Nuclear Power Projects
Pubbl/distr/stampa	Havertown : , : International Atomic Energy Agency, , 2024 ©2024
ISBN	9789201054241 9201054246
Edizione	[1st ed.]
Descrizione fisica	1 online resource (88 pages)
Collana	IAEA Nuclear Energy Series ; ; v.NG-T-4.8
Soggetti	Nuclear power plants - Economic aspects Cost effectiveness
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>1. Introduction -- 1.1. Background -- 1.2. Objective -- 1.3. Scope -- 1.4. Structure -- 1.5. Users -- 2. An Introduction to cost–benefit analysis -- 2.1. General definition of cost–benefit analysis -- 2.2. Key principles of cost -- 2.2.1. Incremental approach -- 2.2.2. Long term perspective -- 2.2.3. Monetizing social costs and benefits -- 2.2.4. Discounting to obtain net present value -- 2.2.5. Microeconomic perspective -- 2.2.6. Common mistakes in cost–benefit analysis -- 2.3. Limitations and alternative methods -- 2.4. Seven step process -- 3. Application of cost–benefit analysis in the case of nuclear projects -- 3.1. Selected remarks on specificities of nuclear new build projects -- 3.2. Steps 1–4: Preparatory steps -- 3.2.1. Step 1: Analysis of the context -- 3.2.2. Step 2: Definition of the objectives, project identification and choice of the counterfactual -- 3.2.3. Step 3: Technical feasibility -- 3.2.4. Step 4: Environmental impact assessment -- 3.3. Step 5: Financial analysis -- 3.3.1. Reference period (or time horizon) -- 3.3.2. Private costs -- 3.3.3. Operating revenues -- 3.3.4. Financial performance indicators -- 3.4. Step 6: Economic analysis</p>
Sommario/riassunto	This publication by the International Atomic Energy Agency provides a

comprehensive framework for conducting cost-benefit analysis (CBA) of new nuclear power projects. It addresses the economic, social, and environmental impacts of nuclear energy investments, offering guidelines specifically tailored for nuclear new builds. The book aims to assist IAEA Member States, particularly newcomers, in performing feasibility studies to justify nuclear power projects. It emphasizes the importance of efficient resource allocation and societal benefits exceeding costs. The intended audience includes policymakers, project managers, and stakeholders involved in nuclear power development.
