

1. Record Nr.	UNINA9910824269703321
Titolo	Global nuclear energy partnership [[electronic resource] /] / Alan N. Bernstein, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2009
ISBN	1-61324-956-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (61 p.)
Collana	Novinka
Altri autori (Persone)	BernsteinAlan N
Disciplina	333.792/4153
Soggetti	Reactor fuel reprocessing - Waste disposal - United States Radioactive waste disposal - United States Spent reactor fuels - Storage - United States Radioactive waste repositories - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- GLOBAL NUCLEAR ENERGY PARTNERSHIP -- GLOBAL NUCLEAR ENERGY PARTNERSHIP -- CONTENTS -- PREFACE -- RESULTS IN BRIEF -- BACKGROUND -- Materials in Spent Nuclear Fuel -- Technologies for Recycling Spent Nuclear Fuel -- DOE'S ORIGINAL ENGINEERING-SCALE APPROACH WOULD MEET GNEP'S OBJECTIVES IF ADVANCED RECYCLING TECHNOLOGIES ARE SUCCESSFULLY DEVELOPED -- Successful Development of Advanced Recycling Technologies Would Be an Initial Step toward Greatly Extending the Capacity of a Geologic Repository -- Advanced Recycling Technologies Envisioned under DOE's Original Approach to GNEP Pose Lower Proliferation Risks Than Existing Recycling Technologies -- Lack of Industry Participation Could Reduce the Prospects for Commercialization and Widespread Use of Advanced Recycling Technologies -- DOE's Original Approach to GNEP Included Building a Separate Engineering-Scale Reprocessing Plant before Conducting R&D that Would Help in Designing the Plant -- The R&D Facility and Advanced Reactor Would Enable DOE to Develop the Advanced Recycling Technologies Envisioned under Its Original Approach to GNEP -- DOE'S ACCELERATED APPROACH WOULD LIKELY RELY ON TECHNOLOGIES THAT FALL SHORT OF MEETING GNEP'S OBJECTIVES -- Two Other Industry Consortia Proposed to Address GNEP's Objectives by Using Technologies That Are Not Mature

Enough for Commercial Deployment -- The Government Would Likely Bear Substantial Costs for Commercial-Scale Recycling Facilities -- DOE Officials Recognize the Limitations of Accelerating Deployment of Commercial-Scale Facilities but Cite Other Benefits -- CONCLUSIONS -- RECOMMENDATIONS FOR EXECUTIVE ACTION -- AGENCY COMMENTS AND OUR EVALUATION -- List of Committees -- APPENDIX I. SCOPE AND METHODOLOGY -- APPENDIX II. DOE'S USE OF TECHNOLOGY READINESS LEVELS TO ASSESS THE MATURITY OF SPENT FUEL RECYCLING TECHNOLOGIES -- INDEX.
