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Decommissioning  
Delivery  
Partnership

# **Sellafield Ltd Decomm issioning Delivery Partnershi p**

The Strategic Trade  
Review is a peer  
reviewed journal  
dedicated to

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strategic trade,  
export controls, and  
sanctions. The sixth  
Spring/Summer  
2018 issue features  
articles on emerging  
technologies and  
export controls,  
cryptosanctions,  
export control  
practices in  
advanced countries,  
proliferation finance,

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defense exports,  
and capacity-  
building. It also  
includes a  
"Practitioners  
Perspectives"  
section. The  
Strategic Trade  
Review publishes  
articles from a  
global authorship.  
The Review is an  
essential resource

for researchers, practitioners, students, policy-makers, and other stakeholders involved in trade and security.

This open access book traces the journey of nuclear law: its origins, how it has developed, where it is now, and

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where it is headed.

As a discipline, this highly specialized body of law makes it possible for us to benefit from the life-saving applications of nuclear science and technology, including diagnosing cancer as well as avoiding and mitigating the

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effects of climate change. This book seeks to give readers a glimpse into the future of nuclear law, science and technology. It intends to provoke thought and discussion about how we can maximize the benefits and

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minimize the risks inherent in nuclear science and technology. This compilation of essays presents a global view in discipline as well as in geography. The book is aimed at representatives of governments—including regulators,

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policymakers and lawmakers—as well as representatives of international organizations and the legal and insurance sectors. It will be of interest to all those keen to better understand the role of law in enabling the safe, secure, and



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peaceful use of  
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nuclear technology  
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around the world.  
The contributions in  
this book are written  
by leading experts,  
including the  
IAEA's Director  
General, and  
discuss the four  
branches of nuclear  
law—safety, security,  
safeguards and

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nuclear liability—and  
the interaction of  
nuclear law with  
other fields of  
national and  
international law.

This open access  
book discusses the  
eroding economics  
of nuclear power for  
electricity  
generation as well  
as technical, legal,

acceptance issues.

The use of nuclear power for electricity generation is still a heavily disputed issue. Aside from technical risks, safety issues, and the unsolved problem of nuclear waste disposal, the economic

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performance is currently a major barrier. In recent years, the costs have skyrocketed especially in the European countries and North America. At the same time, the costs of alternatives such as photovoltaics and wind power have

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significantly

decreased.

Partnership  
Contents History

and Current Status

of the World Nuclear

Industry The

Dramatic Decrease

of the Economics of

Nuclear Power

Nuclear Policy in the

EU The Legacy of

CsernobyI and

Fukushima Nuclear

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Decommissioning

Waste and

Delivery  
Decommissioning of

Partnership  
Nuclear Power

Plants Alternatives:

Heading Towards

Sustainable

Electricity Systems

Target Groups

Researchers and

students in the fields

of political,

economic and

technical sciences

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Energy (policy)

Delivery

experts, nuclear

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energy experts and

practitioners,

economists,

engineers,

consultants, civil

society

organizations The

Editors Prof. Dr.

Reinhard Haas is

University Professor

of energy

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economics at the  
Institute of Energy

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Systems and

Electric Drives at  
Technische

Universität Wien,

Austria. PD Dr. Lutz

Mez is Associate

Professor at the

Department for

Political and Social

Sciences of Freie

Universität Berlin,



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Germany. PD Dr.

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Amela Ajanovic is a

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senior researcher

and lecturer at the

Institute of Energy

Systems and

Electrical Drives at

Technische

Universität Wien,

Austria.--

Nuclear

Decommissioning

Managing

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Radioactive Waste  
Delivery  
Safely  
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Radioactive Waste  
Management  
Managing Risk at  
Sellafield, Twenty-  
fourth Report of  
Session 2012-13,  
Report, Together  
with Formal  
Minutes, Oral and  
Written Evidence  
Environment &

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Planning  
Delivery  
Developing  
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Frameworks and  
Networks  
Known as FReM.  
Ring binder  
available  
separately  
(ISBN  
9780115601422).  
Also available  
with binder  
(ISBN

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Decommissioning  
9780115601439)

Nuclear

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Decommissioning

Case Studies,  
Volume Three:  
The People Side

presents a  
selection of  
global case  
studies on  
different  
aspects of  
Nuclear Decommi

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Decommissioning  
Delivery  
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ssioning. This volume focuses on the people side of nuclear decommissioning , including stakeholder impacts, public relations and workforce factors. It presents a selection of

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case studies on stakeholders, socioeconomics and human factors, providing readers with a guide and information to deal with common, often contentious challenges. The

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events covered  
in this  
publication  
range from  
change  
management,  
stakeholder  
motivation,  
involvement and  
leadership  
adequacies.  
Decommissioning  
experts,

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Decommissioning  
including  
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regulators,  
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operators,  
waste managers,  
researchers and  
academics will  
find this book  
to be suitable  
supplementary  
material to  
Michele  
Laraia's  
reference works



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on the theory  
and  
applications of  
nuclear decommissioning.

Alongside the  
case studies  
books in this  
series, readers  
will obtain an  
understanding  
of stakeholder,  
socioeconomic

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Decommissioning  
and people-  
Delivery  
related case  
Partnership  
studies, what  
happened, and  
what we can  
learn from  
them. Presents  
a selection of  
global case  
studies that  
focus on the  
people side of  
nuclear decommi

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ssioning,  
Delivery  
specifically  
Partnership  
workforce and  
public impacts,  
stakeholder  
management and  
human factors  
Highlights  
important  
sustainability  
and  
socioeconomic  
factors Assists

the reader in  
developing  
robust people-  
related plans  
and strategies  
based on  
experience and  
lessons learned  
While  
refurbishments  
for the long-  
term operation  
of nuclear

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power plants  
and for the  
lifetime  
extension of  
such plants  
have been  
widely pursued  
in recent  
years, the  
number of  
plants to be  
decommissioned  
is nonetheless

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expected to increase in future, particularly in the United States and Europe. It is thus important to understand the costs of decommissioning so as to develop

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coherent and  
cost-effective  
strategies,  
realistic cost  
estimates based  
on  
decommissioning  
plans from the  
outset of  
operations and  
mechanisms to  
ensure that  
future

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decommissioning  
expenses can be  
adequately  
covered. This  
study presents  
the results of  
an NEA review  
of the costs of  
decommissioning  
nuclear power  
plants and of  
overall funding  
practices



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adopted across  
NEA member  
countries. The  
study is based  
on the results  
of this NEA  
questionnaire,  
on actual  
decommissioning  
costs or  
estimates, and  
on plans for  
the

establishment  
and management  
of  
decommissioning  
funds. Case  
studies are  
included to  
provide insight  
into  
decommissioning  
practices in a  
number of  
countries.

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Advances and  
Innovations in  
Nuclear

Decommissioning  
Decommissioning  
Techniques for  
Research  
Reactors  
Sellafield  
A Framework for  
Implementing  
Geological  
Disposal

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Nuclear Law  
Preparing for  
Decommissioning  
During  
Operation and  
After Final  
Shutdown

*The  
groundbreaking  
paper Abolishing  
Nuclear Weapons  
by George  
Perkovich and*

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*James Acton was first published by the International Institute for Strategic Studies as an Adelphi Paper in September 2008. One of the paper's main aims was to jump-start a broad international*

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*debate about how to achieve the immensely important and equally difficult goal of nuclear disarmament. The present volume takes the next step. Perkovich and Acton have invited a distinguished*

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group of experts  
Delivery  
-- current and  
Partnership  
former officials,  
respected  
analysts and  
authors -- from  
thirteen  
countries, nuclear  
and non-nuclear,  
to critique the  
Adelphi Paper,  
which is reprinted  
here. Their

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*diverse views  
explore pathways  
around obstacles  
to nuclear  
disarmament and  
sharpen  
questions  
requiring further  
deliberation. The  
volume concludes  
with an essay by  
Perkovich and  
Acton that works*



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*through some of  
the key questions  
and dilemmas  
raised by the  
critiques.*

*Managing Risk  
Reduction at  
Sellafield Nuclear  
Decommissioning  
Authority  
The  
Stationery Office  
Recent interest in  
small modular*

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*reactors (SMRs) is being driven by a desire to reduce the total capital costs associated with nuclear power plants and to provide power to small grid systems.*

*According to estimates available today, if*

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*all the competitive advantages of SMRs were realised, including serial production, optimised supply chains and smaller financing costs, SMRs could be expected to have lower absolute and*

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Partnership

*specific (per-kWe)  
construction costs  
than large  
reactors.*

*Although the  
economic  
parameters of  
SMRs are not yet  
fully determined,  
a potential  
market exists for  
this technology,  
particularly in*

Bookmark File  
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Decommissioning  
energy mixes  
Delivery  
with large shares  
Partnership  
of renewables.

*This report  
assesses the size  
of the market for  
SMRs that are  
currently being  
developed and  
that have the  
potential to  
broaden the ways  
of deploying*

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*nuclear power in different parts of the world. The study focuses on light water SMRs that are expected to be constructed in the coming decades and that strongly rely on serial, factory-based production of reactor*

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*modules. In a high-case scenario, up to 21 GWe of SMRs could be added globally by 2035, representing approximately 3% of total installed nuclear capacity. Decommissioning of Nuclear Installations*

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*The People Side  
Nuclear  
Decommissioning  
Case Studies  
Government  
financial  
reporting manual  
2010-11  
Technological  
Utopianism under  
Socialism,  
1917-1989  
Transparency in*



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Decommissioning  
**Nuclear  
Warheads and  
Materials**

*Published as  
part of the  
managing  
radioactive  
waste safely  
(MRWS)*

*programme, this  
white paper sets  
out the UK  
Government's*

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*framework for  
managing higher  
activity  
radioactive  
waste in the  
long-term  
through  
geological  
disposal,  
coupled with  
safe and secure  
interim storage  
and ongoing  
research and*

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Decommissioning  
Delivery  
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development to  
support its  
optimised  
implementation.  
It also invites  
communities to  
express an  
interest in  
opening up,  
without  
commitment,  
discussions with  
Government on  
the possibility

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Decommissioning  
of hosting a  
geological  
disposal  
Partnership

facility at some  
point in the  
future. In June  
2007 the  
Government  
published a MRWS  
consultation  
document in  
conjunction with  
the devolved  
administrations

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Decommissioning  
for Wales and  
Northern  
Ireland.

*Responses to  
this  
consultation  
have been taken  
into  
consideration in  
the development  
of this white  
paper. The paper  
sets out the  
framework for*

# Bookmark File

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### Decommissioning

*the future  
implementation  
of geological  
disposal that  
includes: the  
approach to  
compiling and  
updating the UK  
Radioactive  
Waste Inventory  
(UKRWI) and  
using it as a  
basis for  
discussion with*

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Decommissioning  
Delivery  
Partnership

*potential host  
communities; the  
Nuclear  
Decommissioning  
Authority's  
technical  
approach for  
developing a  
geological  
disposal  
facility,  
including the  
use of a staged  
implementation*

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Decommissioning  
Delivery  
Partnership

*approach and  
ongoing research  
and development  
to support  
delivery. The  
white paper  
covers the  
amount of waste  
for disposal;  
preparation and  
planning for  
geological  
disposal;  
protecting*



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### Decommissioning

*people and the environment:  
regulation,  
planning and  
independent  
scrutiny; site  
selection using  
a voluntarism  
and partnership  
approach; the  
site assessment  
process; timing  
and next steps.*

*Decommissioning*

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### Decommissioning

nuclear

facilities is a

relatively new

field, which has

developed

rapidly in the

last ten years.

It involves

materials that

may be highly

radioactive and

therefore

require

sophisticated

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Decommissioning  
methods of  
Delivery  
containment and  
Partnership  
remote handling.

The wastes  
arising from  
decommissioning  
are hazardous  
and have to be  
stored or  
disposed of  
safely in order  
to protect the  
environment and  
future

Bookmark File  
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Decommissioning  
generations.

Nuclear  
decommissioning  
work must be  
carried out to  
the highest  
possible  
standards to  
protect workers,  
the general  
public and the  
environment.

This book  
describes the

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Decommissioning  
Delivery  
Partnership

*techniques used  
for dismantling  
redundant  
nuclear  
facilities, the  
safe storage of  
radioactive  
wastes and the  
restoration of  
nuclear licensed  
sites. \**

*Describes the  
techniques used  
for dismantling*

# Bookmark File

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### Decommissioning

*nuclear*

*facilities, safe*

*storage of*

*radioactive*

*wastes, and the*

*restoration of*

*nuclear licensed*

*facilities. \**

*Provides the*

*reader with*

*decommissioning*

*experience*

*accumulated over*

*15 years by*

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Decommissioning

UKAEA. \*

Contains

valuable

information to  
personnel new to  
decommissioning  
and waste  
management.

Josephson's  
intriguing study  
of how  
technology both  
helped and  
hindered this

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*effort asks new  
and important  
questions about  
the crucial  
issues  
inextricably  
linked with the  
development and  
diffusion of  
technology in  
any  
sociopolitical  
system.*

*Corporate*



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Diplomacy  
Delivery  
Managing Public  
Partnership  
Money

*The Strategy for  
a Volatile,  
Fragmented  
Business  
Environment  
Nuclear  
Decommissioning,  
Waste  
Management, and  
Environmental  
Site Remediation*

Bookmark File  
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Decommissioning  
Delivery  
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*A Tale of Fell-  
Running and*

*Obsession  
Annual Report  
and Accounts*

A report today by the  
National Audit Office  
highlights the  
considerable challenge  
faced by the Nuclear  
Decommissioning  
Authority in taking  
forward the clean-up of  
Sellafield, the UK's

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Decommissioning  
largest and most  
Delivery  
hazardous nuclear site.

Partnership  
To date the performance  
of some of the major  
projects at Sellafield has  
been poor. The  
Authority inherited a  
legacy of poor planning  
and neglect over several  
decades when it took  
ownership of Sellafield  
in April 2005. The  
Authority achieved an  
important milestone in

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### Decommissioning

May 2011 when it approved a more robust lifetime plan for the clean-up of Sellafield site by 2120. The improved lifetime plan contributed to an increase in the Authority's provision for decommissioning the site to £67 billion (undiscounted) as at March 2012, up from £47 billion as at March

2009. Significant uncertainties and scheduling risks remain, which the authority is working to understand and address. For example, there is considerable uncertainty over the time required and cost of completing facilities to treat and store highly radioactive material held in deteriorating legacy

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ponds and silos. Today's report concluded that it is too early to judge

whether the appointment of Nuclear Management Partners Limited as the parent body of Sellafield is delivering value for money.

Based on a wealth of empirical studies and case studies, this book explains the strategic

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choices companies have to make in order to remain consistent. In each chapter, real-life examples illuminate the key message managers should take away from the book. It offers a purely managerial viewpoint focused on what managers can do to manage the business environment in any situation.

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This is the first report published by the IAEA which provides guidance on the preparation and implementation of the decommissioning of different types of research reactor.

Different construction and operational features of research reactors have a major impact on the decommissioning



techniques required.

This report offers information on the conclusions drawn from a number of completed projects and identifies their similarities and differences. It is complemented by a computerized research reactor databank. Staff requirements, decommissioning costs waste activity are

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Decommissioning  
presented graphically  
Delivery  
according to reactor  
Partnership  
thermal power and  
integrated energy.

Costs of  
Decommissioning  
Nuclear Power Plants  
Redevelopment of  
Nuclear Facilities After  
Decommissioning  
Small Modular Reactors  
Planning, Execution and  
International Experience  
House of Commons

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official report  
A Debate

*The book collects the latest research on both contractual and conceptual collaborative practices in construction. It identifies common problems faced by the industry and draws out practical implications.*

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*Construction projects are increasingly run in ways that undermine the traditional boundary of the firm and sometimes also the definition of the project coalition. This poses challenges for construction firms whose clients demand ever increasing performan*

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## Decommissioning

*Delivery*  
*as well as those firms*

*Partnership*  
*who want to improve*  
*their strategies for*

*greater collaboration*  
*to give themselves a*  
*competitive advantage.*

*The editors identify*  
*three main themes: c*  
*ollaborative relationsh*  
*ips, operating both in*  
*frameworks and*  
*within networks*  
*of contacts, e.g.*

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*relational contracting  
in partnering, supply  
chain management  
and other  
procurement-driven  
initiatives. The  
second theme is  
frameworks, both  
contractual  
frameworks binding  
parties together over  
a series of contracts,  
and conceptual frame  
works used to*

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*develop future  
performance  
improvement  
arising from the  
proactive strategies  
of firms. The third  
theme is the network  
of relationships that  
supports individuals  
and firms within the  
project coalition in  
delivering services  
and adding value to  
improve*

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*performance. These networks define the investment and incentives supporting the inter-firm and intra-firm relationships, as well as the formal contractual conditions through which such incentives flow.*

*Networks of information exchange define the*



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*structure of the  
activity and  
help predict  
organisational  
configurations for  
successful  
project outcomes.*

*With growing  
demands for  
increased operational  
efficiency and  
process improvement  
in organizations of all  
sizes, more and more*

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Decommissioning  
companies are  
turning to

*benchmarking as a  
means of setting  
goals and measuring  
performance against  
the products,  
services and  
practices of other  
organizations that  
are recognized as  
leaders. The  
Benchmarking Book  
is an indispensable*

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Decommissioning

*guide to process  
improvement through  
benchmarking,  
providing managers,  
practitioners and  
consultants with all  
the information  
needed to carry out  
effective  
benchmarking  
studies. Covering  
everything from  
essential theory to  
important*

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*considerations such  
as project  
management and  
legal issues, The  
Benchmarking Book  
is the ideal step-by-  
step guide to  
assessing and  
improving your  
company's processes  
and performance  
through  
benchmarking.  
These studies*

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*address the technical  
means and  
procedures for  
establishing  
transparency in  
nuclear warheads  
and materials in the  
nuclear weapons  
states.*

*Oral and Written  
Evidence*

*Abolishing Nuclear  
Weapons*

*Strategic Trade*

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Decommissioning  
*Review*

*Interpreting the  
Precautionary  
Principle*

*Preventing  
Irreparable Harm  
The Political and  
Technical Dimensions*

The Nuclear De  
commissioning  
Authority (the  
Authority) was  
set up in 2005

Bookmark File

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Decommissioning

with the specific

Delivery

remit to tackle

Partnership

the UK's nuclear

legacy.

Sellafield is run

for the Authority

by Sellafield

Limited. In

November 2008,

the Authority

contracted with

an international

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Decommissioning  
consortium-  
Delivery  
Nuclear  
Partnership  
Management  
Partners  
Limited-to  
improve  
Sellafield  
Limited's  
management of  
the site,  
including the  
development of



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Decommissioning  
an improved  
Delivery  
lifetime plan.  
Partnership

Over several  
decades,  
successive  
governments  
have been guilty  
of failing to  
tackle issues on  
the site.  
Deadlines for  
cleaning up

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Decommissioning  
Delivery  
Partnership

Sellafield have been missed, while total lifetime costs for decommissioning the site continue to rise each year and now stand at £67.5 billion. The Authority believes it now

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Decommissioning  
has a credible  
Delivery  
plan for decom  
Partnership  
missioning  
Sellafield and  
expects  
Sellafield  
Limited to start  
retrieving  
hazardous  
waste currently  
held in legacy  
facilities in

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Decommissioning  
2015.

Nonetheless,  
given the track  
record on the  
site and given  
that only 2 of  
the 14 major  
projects were  
being delivered  
on or ahead of  
schedule in  
2011-12, the

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Delivery  
Partnership

Committee is not yet convinced that this date will be met or that sufficient progress is being made. Basic project management failings continue to cause delays

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Decommissioning  
and increase  
Delivery  
costs, while  
Partnership  
doubts remain  
over the  
robustness of  
the plan, in  
particular  
whether the  
Authority is  
progressing the  
development of  
the geological

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Decommissioning  
Delivery  
Partnership

disposal facility  
as quickly as  
possible. Nor is  
the Committee  
convinced that  
taxpayers are  
getting a good  
deal from the  
Authority's  
arrangement  
with Nuclear  
Management

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Decommissioning  
Delivery  
Partnership

Partners. And taxpayers currently bear the financial risks of delays and cost increases.

Nearly 10 years after its first publication, Aurum are re-issuing this



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Decommissioning  
Delivery  
Partnership

classic running  
book which has  
defined a genre.

It includes an  
introduction  
from bestselling  
author Robert  
Macfarlane and  
an epilogue  
from Richard  
Askwith. The  
concept of fell-

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Decommissioning  
Delivery  
Partnership

running is  
simple: it's a  
sport that  
involves running  
over mountains  
– sometimes  
one, sometimes  
many. It's also  
immensely  
demanding.  
While running  
uphill is a

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Decommissioning  
Delivery  
Partnership

stamina-sapping  
slog, running  
pell-mell down  
the other side  
requires the  
agility – and  
even  
recklessness –  
of a mountain  
goat. And  
there's the  
weather to

contend with. It may make the sports pages only rarely, but in areas like the Lake District and Snowdonia fell-running is the basis of a whole culture – indeed, race organisers

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Decommissioning  
Delivery  
Partnership

sometimes have  
to turn  
competitors  
away so that  
fragile mountain  
uplands are not  
irrevocably  
damaged by too  
many  
thundering feet.  
Fixtures like the  
annual Ben

Bookmark File  
PDF Sellafield Ltd  
Decommissioning

Nevis and  
Snowdon races  
attract runners  
from all over  
Britain, and  
beyond. Others,  
such as the  
Wasdale and  
Ennerdale fell  
runs in the  
Lakeland valleys  
- gruelling

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Decommissioning  
Delivery  
Partnership

marathons of  
more than 20  
miles – remain  
truly local  
events for which  
the whole  
community  
turns out, with  
many of the  
runners back on  
the same fells  
the next day

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Decommissioning  
Delivery  
Partnership

tending sheep.  
Now, Richard  
Askwith

explores the  
world of fell-  
running in the  
only legitimate  
way: by donning  
his Ron Hill vest  
and studded  
shoes to spend a  
season running



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Decommissioning  
Delivery  
Partnership

as many of the  
great fell races  
as he can, from  
Borrowdale to  
Ben Nevis: an  
arduous  
schedule that  
tests the very  
limits of one's  
stamina and  
courage. Over  
the months he

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Decommissioning  
Delivery  
Partnership

also meets the  
greats of fell-  
running - like  
the remarkable  
Joss Naylor,  
who to  
celebrate his  
fiftieth birthday  
ran all 214  
major Lakeland  
fells in a single  
week; Billy

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Decommissioning  
Delivery  
Partnership

Bland, the  
combative  
Borrowdale man  
whose  
astounding  
records still  
stand for many  
of the top races;  
and Bill  
Teasdale, a hero  
of the sport's  
earlier,

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Decommissioning  
professional  
Delivery  
Partnership  
days, whom he  
tracks down to  
his tiny cottage  
in the northern  
Lakes. And  
ultimately  
Askwith's  
obsession drives  
him to attempt  
the ultimate  
challenge: the

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Decommissioning

Bob Graham  
Round – a non-  
stop circuit of  
42 of the Lake  
District's  
highest peaks to  
be completed  
within 24 hours.  
This is a portrait  
of one of the  
few sports to  
have remained

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Decommissioning  
Delivery  
Partnership

utterly true to  
its roots – in  
which the point  
is not fame or  
fortune but to  
run the ancient,  
wild landscape,  
and to be a  
hero, if at all,  
within one's  
own valley. Feet  
in the Clouds is

Bookmark File  
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Decommissioning  
Delivery  
Partnership

a chronicle of a  
masochistic but  
admirable  
sporting  
obsession, an  
insight into one  
of the oldest  
extreme sports,  
and a lyrical  
tribute to  
Britain's  
mountains and

the men and  
women who live  
among them.

Once a nuclear  
installation has  
reached the end  
of its safe and  
economical  
operational  
lifetime, the  
need for its deco  
mmissioning



arises. Different strategies can be employed for nuclear decommissioning, based on the evaluation of particular hazards and their attendant risks, as well as on the analysis

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Decommissioning  
of costs of clean-  
up and waste  
management.

This allows for d  
ecommissioning  
either soon after  
permanent  
shutdown, or  
perhaps a long  
time later, the  
latter course  
allowing for

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Decommissioning  
radioactivity  
Delivery  
Partnership  
levels to drop in  
any activated or  
contaminated  
components. It  
is crucial for  
clear processes  
and best  
practices to be  
applied in deco  
mmissioning  
such

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Decommissioning  
Delivery  
Partnership  
installations and  
sites, particular  
where any  
significant  
health and  
environmental  
risks exist. This  
book critically  
reviews the  
nuclear decomm  
issioning  
processes and

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Decommissioning  
technologies  
Delivery  
Partnership  
applicable to  
nuclear power  
plants and other  
civilian nuclear  
facilities. Part  
one focuses on  
the fundamental  
planning issues  
in starting a  
nuclear decomm  
issioning

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Delivery  
Partnership

process, from  
principles and  
safety

regulations, to  
financing and  
project  
management.

Part two covers  
the execution  
phase of nuclear  
decommissionin  
g projects,

Bookmark File  
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Decommissioning  
detailing  
Delivery  
Partnership  
processes and  
technologies  
such as  
dismantling, dec  
ontamination,  
and radioactive  
waste  
management, as  
well as  
environmental  
remediation,

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Decommissioning  
site clearance  
and reuse.

Finally, part  
three details  
international  
experience in  
the decommissi  
oning of nuclear  
applications,  
including the  
main nuclear  
reactor types



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Decommissioning  
Delivery  
Partnership  
and nuclear fuel  
cycle facilities,  
as well as small  
nuclear facilities  
and legacy  
nuclear waste  
sites. Critically  
reviews nuclear  
decommissionin  
g processes and  
technologies  
applicable to

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Decommissioning  
nuclear power  
Delivery  
plants and other  
Partnership  
civilian nuclear  
facilities

Discusses the  
fundamental  
planning issues  
in starting a  
nuclear decomm  
issioning  
process

Considers the

Bookmark File  
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Decommissioning  
Delivery  
Partnership  
execution phase  
of nuclear deco  
mmissioning  
projects,  
including  
dismantling, dec  
ontamination,  
and radioactive  
waste  
management, as  
well as  
environmental

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Decommissioning  
remediation,  
Delivery  
site clearance  
Partnership  
and reuse  
Managing Risk  
Reduction at  
Sellafield

Nuclear  
Engineering  
International  
The  
Technological

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Decommissioning  
and Economic  
Delivery  
Future of  
Partnership  
Nuclear Power  
Nuclear Decom  
missioning  
Authority  
Proceedings of  
an International  
Conference on  
Radioactive  
Waste  
Management

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Decommissioning  
Held by the  
Delivery  
International  
Partnership  
Atomic Energy

Agency in  
Seattle, 16-20  
May, 1983  
Viewed from the  
perspective of  
environmental  
management, this  
study describes  
the implications

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Decommissioning  
and applications of  
Delivery  
the precautionary  
Partnership  
principle - a theory  
of avoiding risk  
even when its  
likelihood seems  
remote. This  
principle has been  
employed in the  
United Nations  
Framework  
Convention on

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# Climate Change and the North Atlantic

Convention, yet it is not widely understood. This study examines the history and context of the principle, and its applications to law, governmental



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policies, business  
Delivery  
and investment,  
Partnership  
scientific research

and international  
relations.

future of the  
nuclear industry in  
the North West :  
Oral and written  
Evidence

In the coming  
decades a large

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number of nuclear facilities will reach the end of their useful lives and require decommissioning. Many of these facilities will be decommissioned with the aim of either replacing them with new

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facilities that serve  
the same purpose  
or reusing the site  
for another,  
completely  
different purpose.  
By recognizing  
and promoting the  
redevelopment  
potential of  
facilities and their  
sites at the design

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Delivery  
Partnership

stage or earlier in  
their operating life,  
it is possible to  
enhance the  
prospects for  
worthwhile  
redevelopment,  
offsetting the costs  
of  
decommissioning  
and ensuring that  
best use is made

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of the material,  
Delivery  
land and human  
Partnership  
resources

associated with  
each facility. A  
range of factors to  
consider has been  
identified and  
illustrated using  
case studies  
drawn from  
Member States,

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Decommissioning  
and practical  
Delivery  
guidance has been  
Partnership  
provided for  
involved parties to  
help promote  
successful and  
effective  
redevelopment of  
decommissioned  
nuclear  
installations in the  
future.

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The Nuclear  
Delivery  
Installations  
Partnership  
(Liability for  
Damage) Order  
2016  
Collaborative  
Relationships in  
Construction  
Parliamentary  
Debates  
(Hansard).  
Nuclear

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Partnership  
Authority business  
plan 2012-2015

The Chemical  
Engineer  
Sustainable  
Energy--without  
the Hot Air

**Provides an  
overview of  
the  
sustainable**



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Decommissioning  
**energy crisis**  
Delivery  
Partnership  
**that is  
threatening  
the world's  
natural  
resources,  
explaining how  
energy  
consumption is  
estimated and  
how those  
numbers have**

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Decommissioning  
Delivery  
Partnership

**been skewed by  
various  
factors and  
discussing  
alternate  
forms of  
energy that  
can and should  
be used.  
Enabling  
power: Energy  
Act 2004, ss.**

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Decommissioning  
76, 192 (4).  
Delivery  
Issued:  
Partnership  
22.02.2016.

Made: -. Laid:  
-. Coming into  
force: In  
accord. with  
art. 1 (2) (4)  
(5). Effect:  
1965 c.57;  
1976 c.28;  
1994 c.40;

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**2013 c.32;  
S.I. 1977/500;  
1998/2573;  
1999/1750;  
2006/1379,  
2988 (W.277);  
S.S.I.  
2007/179  
amended & S.I.  
1994/909  
revoked & 1969  
c.18 repealed.**

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**Territorial  
extent & class  
ification:**

**E/W/S/NI. For  
approval by  
resolution of  
each House of  
Parliament.**

**Superseded by  
S.I. 2016/562**

**(ISBN  
9780111146743)**

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Decommissioning  
**issued**

**11.05.2016**

**International  
human rights  
adjudicators,  
while facing  
urgent cases,  
have used  
provisional  
measures in  
order to  
prevent**

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Decommissioning  
Delivery  
Partnership

**irreparable  
harm, e.g. to  
order States  
to halt an  
expulsion, the  
execution of a  
death  
sentence, the  
destruction of  
the natural  
habitat, as  
well as to**

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Delivery  
Partnership

**ensure access  
to health care  
in detention  
or protection  
against death  
threats. In  
the practice  
of the various  
adjudicators,  
the  
traditional  
concept of**



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Decommissioning  
Delivery  
Partnership

**provisional  
measures has  
undergone a  
process of  
humanization.  
Preventing  
Irreparable  
Harm addresses  
the question  
of how such  
provisional  
measures can**

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Decommissioning  
Delivery  
Partnership

**be made as  
persuasive as  
possible.**

**Apart from the  
Inter-American  
Court, none of  
the human  
rights  
adjudicators  
motivate or  
publish their  
provisional**

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Delivery

Partnership

**measures. Yet  
the book  
analyzes their  
best practices  
and obstacles,  
determines the  
underlying  
rationale for  
their use of  
provisional  
measures, and  
establishes**

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Decommissioning

Delivery

Partnership

**the core of  
the concept of  
provisional  
measures that  
all  
adjudicators  
have in  
common. It  
argues that  
clarity - on  
what belongs  
to the core of**

Bookmark File  
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Decommissioning  
Delivery  
Partnership

**the concept  
and on what  
does not  
belong to the  
concept at all  
- enhances the  
persuasive  
force of  
provisional  
measures. The  
practices of  
the**

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Decommissioning  
Delivery  
Partnership

**international  
adjudicators  
that are made  
accessible in  
this book will  
prove useful  
in the ongoing  
cross-  
fertilization  
that occurs  
among these  
adjudicators.**

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Delivery

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**Moreover, the analysis provided allows individual victims, their counsel, NGOs, as well as international institutions, to address more**

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Decommissioning  
**effectively**  
Delivery  
**urgent human**  
Partnership  
**rights cases.**

**The**  
**Benchmarking**  
**Book**  
**The**  
**Contaminated**  
**Legacy**  
**The Future of**  
**the Nuclear**  
**Industry in**



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the North West  
Delivery  
Feet in the  
Partnership  
Clouds  
Provisional  
Measures in  
International  
Human Rights  
Adjudication  
Nuclear Energy  
Market  
Potential for  
Near-term

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Decommissioning

## **Deployment**

Advances and  
Innovations in  
Nuclear Decom  
missioning is an  
essential  
resource for  
industry  
professionals  
and academics  
interested in  
acquiring the

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Delivery  
Partnership

most up-to-date  
information on  
the current state  
of nuclear deco  
mmissioning.

Written and  
edited by the  
world's leading  
experts, this  
book considers  
lessons learned  
and new

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Decommissioning  
innovations in  
Delivery  
the field. Edited  
Partnership  
by Dr. Laraia, it  
is the perfect  
companion to  
his 2012 book,  
Nuclear Decom  
missioning,  
which critically  
reviews the  
nuclear decomm  
issioning

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processes and technologies applicable to nuclear power plants and other civilian nuclear facilities. Where the earlier book covers the basics of decommissioning, this new book brings

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**Decommissioning**  
you up-to-date  
**Delivery**  
with new areas  
**Partnership**  
of interest and  
approaches,  
innovative  
technologies,  
and lessons  
learned by both  
the nuclear and  
non-nuclear dec  
ommissioning  
sectors. Focuses

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on new aspects,  
trends and  
innovative  
technologies  
Includes content  
on decommissio  
ning after a  
severe accident,  
including the  
use of robotics  
Brings together  
information from

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around the  
world and  
considers the  
lessons learned  
from the non-  
nuclear sector  
as well  
Would Trotsky  
Wear a  
Bluetooth?  
Achievement  
The Ashgate



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Research  
Delivery  
Companion to  
Partnership  
Byzantine  
Hagiography  
The Global  
Debate  
A