

Read Book The
Coal Handbook
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***The Coal
Handbook
Towards
Cleaner
Production
Volume 2
Coal
Utilisation
Woodhead
Publishing Series
In Energy***

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Coal Handbook
***Publishing
Series In
Energy***

*#1 bestselling
author and
acclaimed
venture
capitalist John
Doerr reveals a
sweeping action*

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Volume 2 Coal
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*plan to conquer
humanity's
greatest
challenge:
climate change.
In 2006, John
Doerr was
moved by Al
Gore's An
Inconvenient
Truth and a
challenge from*

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*his teenage
daughter: “Dad,
your generation
created this
problem. You
better fix it.”
Since then,
Doerr has
searched for
solutions to this
existential
problem—as an*

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Towards Cleaner
*investor, an
Production
advocate, and a
Volume 2 Coal
philanthropist.
Utilisation
Fifteen years
Woodhead
later, despite
Publishing Series
breakthroughs
In Energy
in batteries,
electric vehicles,
plant-based
proteins, and
solar and wind
power, global*

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Towards Cleaner

*warming
continues to get
worse. Its
impact is all
around us:
droughts, floods,
wildfires, the
melting of the
polar ice caps.
Our world is
squarely in a
climate crisis*

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*and on the brink
of a climate
disaster. Yet
despite our
state of
emergency,
climate change
has yet to be
tackled with the
urgency and
ambition it
demands. More*

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Towards Cleaner

*than ever, we
need a clear
course of action.
What if the goal-
setting
techniques that
powered the rise
of today's most
innovative
organizations
were brought to
bear on*

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Towards Cleaner

*humanity's
greatest
challenge?*

*Fueled by a
powerful tool
called*

*Objectives and
Key Results
(OKRs), SPEED &
SCALE offers an
unprecedented
global plan to*

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Towards Cleaner
Production

*cut greenhouse
gas emissions
before it's too
late. Used by*

*Google, Bono's
ONE foundation,
and thousands*

*of startups the
world over,*

*OKRs have
scaled ideas into
achievements*

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in Energy

*that changed
the world. With
clear-eyed
realism and an
engineer's
precision, Doerr
identifies the
measurable
OKRs we need
to reduce
emissions across
the board and to*

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*arrive by 2050
at net zero—the
point where we
are no longer
adding to the
heat-trapping
carbon in the
atmosphere. By
turns pragmatic
and inspiring,
SPEED & SCALE
intersperses*

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*Doerr's wide-
ranging analysis
with firsthand
accounts from
Jeff Bezos,
Christiana
Figueres, Al
Gore, Mary
Barra, Bill Gates,
and other
intrepid policy
leaders,*

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entrepreneurs,
Production
scientists, and
Volume 2 Coal
activists. A
Utilisation
launchpad for
Woodhead
those who are
Publishing Series
ready to act
In Energy
now, this book is
geared to
leaders in every
walk of life. With
a definitive
action plan, the

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*latest science,
and a rising
climate
movement on
our side, we can
still reach net
zero before it is
too late. But as
Doerr reminds
us, there is no
more time to
waste.*

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The Coal
Handbook:
Volume 2 Coal
Towards Cleaner
Utilisation
Coal Supply
Woodhead
Chains, Volume
Publishing Series
One, Second
In Energy
Edition presents
a
comprehensive
analysis of the
latest
technology and

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Utilisation
Woodhead
Publishing Series
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practices. The book provides authoritative insights into a variety of case studies to help readers identify the most appropriate technologies to take coal, and its associated by-

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Utilisation
Woodhead
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In Energy

*products, into
an essential
cleaner
environment
that includes
integrated
energy systems.
The book's
expertise
highlights the
future direction
of coal use*

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*towards more
efficient and
clean usage.
Key emerging
topics such as
hybrid
technologies,
integrated
power and
chemical
processes, and
advanced CO2*

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Coal Handbook
Towards Cleaner
*abatement
strategies are
explored, with a
focus on
economic and
sustainable
values. In
addition, the
book includes
two brand new
chapters on the
optimization of*

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mine
Production
development
Volume 2 Coal
and the impacts
Utilisation
of tailings
Woodhead
treatment. With
Publishing Series
its distinguished
In Energy
editor and
international
team of expert
contributors, the
book is a
comprehensive

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Production
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Utilisation
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*and invaluable
resource for
professionals in
the coal mining,
preparation and
utilization
industry, those
in the power
sector, including
plant operators
and engineers,
and researchers*

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Utilisation
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*and academics
interested in this
field. Reflects
the latest
knowledge on
coal production
supply chains,
from analysis to
extraction and
distribution
Explores
sustainable coal*

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Production
Volume 2 Coal
Utilisation
Woodhead
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In Energy

*characterization,
formation,
petrography,
reserves,
sampling and
analysis*

*Examines coal
extraction and
preparation and
highlights
advances in coal
mining*

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Coal Handbook
Towards Cleaner
technology,
underground
coal gas
extraction, coal
sizing,
comminution
and cleaning,
and solid-liquid
separation
technologies
Includes two
brand new

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*chapters on
Production
Optimization
and Strategies
in Mine
Development
and The Impacts
of Tailings
Treatment
Obligations*
#1 NEW YORK
TIMES BEST
SELLER • *In this*

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Towards Cleaner
urgent,
Production
authoritative
Volume 2 Coal
book, Bill Gates
Utilisation
sets out a wide-
Woodhead
ranging,
Publishing Series
practical—and
In Energy
accessible—plan
for how the
world can get to
zero greenhouse
gas emissions in
time to avoid a

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climate
Production
catastrophe. Bill
Volume 2 Coal
Gates has spent
Utilisation
a decade
Woodhead
investigating the
Publishing Series
causes and
In Energy
effects of
climate change.
With the help of
experts in the
fields of physics,
chemistry,

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Towards Cleaner

*biology,
engineering,
political science,
and finance, he
has focused on
what must be
done in order to
stop the planet's
slide to certain
environmental
disaster. In this
book, he not*

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Towards Cleaner
Production

*only explains
why we need to
work toward net-
zero emissions
of greenhouse
gases, but also
details what we
need to do to
achieve this
profoundly
important goal.*

He gives us a

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Towards Cleaner

*clear-eyed
description of
the challenges
we face.*

*Drawing on his
understanding
of innovation
and what it
takes to get new
ideas into the
market, he
describes the*

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Production
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Utilisation
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*areas in which
technology is
already helping
to reduce
emissions,
where and how
the current
technology can
be made to
function more
effectively,
where*

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Production
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Utilisation
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*breakthrough
technologies are
needed, and
who is working
on these
essential
innovations.*

*Finally, he lays
out a concrete,
practical plan for
achieving the
goal of zero emi*

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*ssions—suggesti
ng not only
policies that
governments
should adopt,
but what we as
individuals can
do to keep our
government, our
employers, and
ourselves
accountable in*

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Production
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Utilisation
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*this crucial
enterprise. As
Bill Gates makes
clear, achieving
zero emissions
will not be
simple or easy
to do, but if we
follow the plan
he sets out here,
it is a goal firmly
within our reach.*

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Production

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current National
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conventions for
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describing soils.
Publishing Series
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both current and
usable by the
entire soil
science
community. The
text explores

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Utilisation
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*the types of soil
techniques and
includes a Field
Equipment
checklist with
samples of
common soil
equipment as
part of the field
guide. Other
related
products: Keys*

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to Soil

*Taxonomy
(2014) can be
found here:*

*<https://bookstore.gpo.gov/products/sku/001-000-04761-2> Keys to
Soil Taxonomy,
2010 can be
found here:*

[https://bookstore](https://bookstore.gpo.gov/products/sku/001-000-04761-2)

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Drainage

*Manual can be
found here:*

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*Converging
Waters:*

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Collaborative
Modeling With
Participatory
Processes to
Make Water
Resources*

*Decisions can be
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cts/sku/008-022-](https://bookstore.gpo.gov/products/sku/008-022-)*

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Measurement
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Manual: A Guide
Utilisation
to Effective
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Better Water
Management
can be found
here: [https://bo
okstore.gpo.gov/](https://bookstore.gpo.gov/)

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Utilisation
Manual: A Guide
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and
Management of
Ground-Water
Resources can
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Climate Disaster
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*Towards Cleaner
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Chains
Energy*

The Struggle for

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Electricity
An Epic Battle
for Clean Water
and Justice in
Appalachia
How Silicon
Valley Will Make
Oil, Nuclear,
Natural Gas,
Coal, Electric
Utilities and*

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Conventional
Production
Cars Obsolete
Volume 2 Coal
by 2030
Utilisation
Clean Disruption
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of Energy and
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*The first book to offer
a proven, fast,
inexpensive, and
practical way to cut
greenhouse gas
emissions and prevent*

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*catastrophic climate
change. As climate
change quickly
approaches a series of
turning points that
guarantee disastrous
outcomes, a solution
is hiding in plain
sight. Several
countries have
already replaced
fossil fuels with low-
carbon energy*

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Production
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Utilisation
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sources, and done so rapidly, in one to two decades. By following their methods, we could decarbonize the global economy by midcentury, replacing fossil fuels even while world energy use continues to rise. But so far we have lacked the courage to really try. In this clear-

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Production
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Utilisation
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Energy

*sighted and
compelling book,
Joshua Goldstein and
Staffan Qvist explain
how clean energy
quickly replaced fossil
fuels in such places as
Sweden, France,
South Korea, and
Ontario. Their people
enjoyed prosperity
and growing energy
use in harmony with*

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the natural
Production
environment. They
Volume 2 Coal
didn't do this through
Utilisation
personal sacrifice, nor
Woodhead
through 100 percent
Publishing Series
renewables, but by
Energy
using them in
combination with an
energy source the
Swedes call kÅk kraft,
hundreds of times
safer and cleaner than
coal. Clearly written

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Utilisation
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Publishing Series
Energy
*and beautifully
illustrated, yet
footnoted with
extensive technical
references, Goldstein
and Qvist's book will
provide a new
touchstone in
discussions of climate
change. It could spark
a shift in world energy
policy that, in the
words of Steven*

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Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation

*Pinker's foreword,
literally saves the
world.*

*Coal is an important
fossil fuel resource for
many nations due to
its large remaining
resources, relatively
low production and
processing cost and
potential high energy
intensity. Certain
issues surround its*

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utilisation, however,
Production
including emissions of
Volume 2 Coal
pollutants and
Utilisation
growing concern
Woodhead
about climate change.
Publishing Series
The coal handbook.
Energy
Towards cleaner
production Volume 1
reviews the coal
production supply
chain from analysis to
extraction and
distribution. Part one

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Towards Cleaner
explores coal
Production
characterisation and
Volume 2 Coal
introduces the
Utilisation
industrial use of coal
Woodhead
as well as coal
Publishing Series
formation,
In Energy
petrography, reserves,
sampling and
analysis. Part two
moves on to review
coal extraction and
preparation. Chapters
highlight advances in

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Towards Cleaner
*coal mining
technology,
underground coal gas
extraction, coal sizing,
comminution and
cleaning, and solid-
liquid separation
technologies for coal.*
Further chapters
focus on economic
factors affecting coal
preparation, post-
treatment of coal, coal

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Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*tailings treatment, and
the optimisation,
simulation and control
of coal preparation
plants. Finally, part
three considers
aspects of the coal
supply chain including
the management
approach and
individual functions
such as coal blending
and homogenisation,*

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Towards Cleaner
*transportation and
Production
handling along the
Volume 2 Coal
entire supply chain.
Utilisation
With its distinguished
Woodhead
editor and
Publishing Series
international team of
Energy
expert contributors,
The coal handbook
Volumes 1 and 2 is a
comprehensive and
invaluable resource
for professionals in
the coal mining,*

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Towards Cleaner
*preparation, and
utilisation industry,
those in the power
sector, including plant
operators and
engineers, and
researchers and
academics interested
in this field. Reviews
the coal production
supply chain from
analysis to extraction
and distribution*

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Towards Cleaner
Production

*Explores coal
characterisation,
Volume 2 Coal
formation,
Utilisation
petrography, reserves,
Woodhead
sampling and analysis
Examining coal Series
extraction and
In Energy
preparation and
highlights advances in
coal mining
technology,
underground coal gas
extraction, coal sizing,*

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*comminution and
cleaning, and solid-
liquid separation
technologies*

*The industrial age of
energy and
transportation will be
over by 2030. Maybe
before. Exponentially
improving
technologies such as
solar, electric
vehicles, and*

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autonomous (self-driving) cars will disrupt and sweep away the energy and transportation

industries as we know

it. The same Silicon Valley ecosystem that created bit-based technologies that have disrupted atom-based industries is now creating bit- and

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electron-based
Production
technologies that will
Volume 2 Coal
disrupt atom-based
Utilisation
energy industries.
Woodhead
Clean Disruption
Publishing Series
projections (based on
Technology
technology cost
curves, business
model innovation as
well as product
innovation) show that
by 2030: - All new
energy will be

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Production
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Utilisation
Woodhead
Publishing Series
Energy

*provided by solar or
wind. - All new mass-
market vehicles will
be electric. - All of
these vehicles will be
autonomous (self-
driving) or semi-
autonomous. - The
new car market will
shrink by 80%. - Even
assuming that EVs
don't kill the gasoline
car by 2030, the self-*

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Production
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Utilisation
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*driving car will shrink
the new car market by
80%. - Gasoline will
be obsolete. Nuclear is
already obsolete. - Up
to 80% of highways
will be redundant. -
Up to 80% of parking
spaces will be
redundant. - The
concept of individual
car ownership will be
obsolete. - The Car*

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Production

*Insurance industry
will be disrupted. The
Stone Age did not end
because we ran out of
rocks. It ended
because a disruptive
technology ushered in
the Bronze Age. The
era of centralized,
command-and-
control, extraction-
resource-based energy
sources (oil, gas, coal*

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Utilisation
Woodhead
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*and nuclear) will not
end because we run
out of petroleum,
natural gas, coal, or
uranium. It will end
because these energy
sources, the business
models they employ,
and the products that
sustain them will be
disrupted by superior
technologies, product
architectures, and*

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business models. This is a technology-based disruption reminiscent of how the cell phone, Internet, and personal computer swept away industries such as landline telephony, publishing, and mainframe computers. Just like those technology disruptions flipped the

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Production

*architecture of
information and
brought abundant,
cheap and*

participatory

information, the clean

*disruption will flip the
architecture of energy*

*and bring abundant,
cheap and*

participatory energy.

Just like those

previous technology

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Production
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Utilisation
*disruptions, the Clean
Disruption is
inevitable and it will
be swift.*

**NEW YORK TIMES
BESTSELLER** *From*
**Mayor Michael
Bloomberg and
former head of the
Sierra Club Carl Pope**
*comes a manifesto on
how the benefits of
taking action on*

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*climate change are
concrete, immediate,
and immense. They
explore climate
change solutions that
will make the world
healthier and more
prosperous, aiming to
begin a new type of
conversation on the
issue that will spur
bolder action by
cities, businesses, and*

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*citizens—and even,
someday, by
Washington. "Climate
of Hope is an
inspiring must read."
—Former Vice
President Al Gore,
Chairman of The
Climate Reality
Project "Climate
change threatens to
reshape the future of
our world's*

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population centers.
Production
Bloomberg and Pope
Volume 2 Coal
have been leaders on
Utilization
fortifying our cities
Woodhead
against this threat,
Publishing Series
and their book proves
Energy
that victory is
possible—and
imperative.”

—Leonardo DiCaprio
"If Trump is looking
for a blueprint, he
could not do better

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*than to read a smart
new book, Climate of
Hope." —Thomas
Friedman in The New
York Times ~ The
2016 election left
many people who are
concerned about the
environment fearful
that progress on
climate change would
come screeching to a
halt. But not Michael*

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Production

*Bloomberg and Carl
Pope. Bloomberg, an
entrepreneur and
former mayor of New
York City, and Pope, a
lifelong environmental
leader, approach
climate change from
different perspectives,
yet they arrive at
similar conclusions.*

*Without agreeing on
every point, they share*

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Production

*a belief that cities,
businesses, and
citizens can lead—and
win—the battle against
climate change, no
matter which way the
political winds in
Washington may shift.*

*In Climate of Hope,
Bloomberg and Pope
offer an optimistic
look at the challenge
of climate change, the*

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Publishing Group
Energy
Writing
from their own
experiences, and
sharing their own
stories from
government, business,
and advocacy,
Bloomberg and Pope

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Publishing Series
In Energy

*provide a road map
for tackling the most
complicated challenge
the world has ever
faced. Along the way,
they turn the usual
way of thinking about
climate change on its
head: from top down
to bottom up, from
partisan to pragmatic,
from costs to benefits,
from tomorrow to*

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Production
today, and from fear
to hope.
Coal Handbook
Under Pressure
A Bright Future
Coal Industry Series
Rhetoric and
Neoliberalism
Marine Engineers'
Handbook
Towards Cleaner
Production. Coal
utilisation

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Towards Cleaner
*Pollution, Politics,
and Power*

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Utilisation
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In Energy

This book
collects and
summarizes
current
scientific
knowledge
concerning coal-
mined landscapes
of the
Appalachian
region in
eastern United

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Towards Cleaner
States.

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Containing
contributions
from authors
across
disciplines, the
book addresses
topics relevant
to the region's
coal-mining
history and its
future; its
human
communities; and

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the soils,
waters, plants,
wildlife, and
human-use
potentials of
Appalachia's
coal-mined
landscapes. The
book provides a
comprehensive
overview of coal
mining's legacy
in Appalachia,
USA. It book

Read Book The Coal Handbook Towards Cleaner

describes the
resources of the
Appalachian
coalfield, its
lands and
waters, and its
human

communities - as
they have been
left in the
aftermath of
intensive
mining, drawing
upon peer-

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Utilisation
Woodhead
Publishing Series
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reviewed science
and other
regional data to
provide clear
and objective
descriptions. By
understanding
the Appalachian
experience,
officials and
planners in
other resource
extraction-
affected world

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regions can gain
knowledge and
perspectives
that will aid
their own
efforts to plan
and manage for
environmental
quality and for
human welfare.
Appalachia's
Coal-Mined
Landscapes:
Resources and

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Communities in a
New Energy Era
Volume 2 Coal
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will be of use
to natural
resource
managers and
scientists
within
Appalachia and
in other world
regions
experiencing
widespread
mining,

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researchers with
interest in the
region's coal
disturbance
legacy, and
economic and
community
planners
concerned with
Appalachia's
future.

The Coal
Handbook:
Towards Cleaner

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Coal Handbook
Towards Cleaner
Production Volume
1: Coal Producti
on Elsevier

This new
Handbook
provides a
series of
reference guides
to cleaner
production
methods,
technologies,
and practices
for key industry

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sectors. Each
volume covers,
for each Coal
Utilisation sector:

- * the
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waste management
- * pollution *
- methods for
estimating and
reporting
emissions *
- treatment and

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control
Production *
Volume 2 Coal
worker and
Utilisation health
risk exposures *
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management *
cleaner
production and
prevention
alternatives
Best Practices
in the Wood and

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Production
Volume 2 Coal
Utilisation
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Paper Industries
provides an
overview of the
forestry, wood
preserving, pulp
and paper
industries and
identifies the
key
environmental
aspects,
supported by
case studies of
major incidents.

Read Book The Coal Handbook Towards Cleaner Production

It provides
general
explanations of
the major unit
operations and
processes in
pulp and paper
mills and wood
treating plants,
covering new
trends alongside
traditional
methods. The
environmental

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Towards Cleaner
Production
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Utilisation
Woodhead
Publishing Series
In Energy

issues regarding
air, water and
solid waste are
all addressed,
identifying all
US plants and
their TRI data,
and the authors
provide
calculation
methods for
properly
accounting for
air emissions

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Towards Cleaner
and P2 practices
Production to reduce them.
Provides Coal
Utilisation guidelines on
cleaner
production and
pollution prevention
practices for
improving
overall
environmental
performance
Discusses

Read Book The Coal Handbook Towards Cleaner

emerging

technologies and

processes for

cleaner air

Contains an

Inventory of

Chemical

Toxicity

Properties

We don't have an

energy crisis.

We have a

consumption

crisis. And this

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book, which
takes aim at
cherished
assumptions
regarding
energy, offers
refreshingly
straight talk
about what's
wrong with the
way we think and
talk about the
problem. Though
we generally

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believe we can
solve
environmental
problems with
more energy—more
solar cells,
wind turbines,
and biofuels—alt
ernative
technologies
come with their
own side effects
and limitations.
How, for

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instance, do
solar cells
cause harm? Why
can't engineers
solve wind
power's biggest
obstacle? Why
won't

contraception
solve the
problem of
overpopulation
lying at the
heart of our

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Production
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Utilisation
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concerns about
energy, and what
will? This
practical,
environmentally
informed, and
lucid book
persuasively
argues for a
change of
perspective. If
consumption is
the problem, as
Ozzie Zehner

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suggests, then
we need to shift
our focus from
suspect
alternative
energies to
improving social
and political
fundamentals:
walkable
communities,
improved
consumption,
enlightened

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governance, and,
Production
most notably,
Volume 2 Coal
women's rights.
Utilisation
The dozens of
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first steps he
Publishing Series
offers are
In Energy
surprisingly
straightforward.
For instance, he
introduces a
simple sticker
that promises a
greater impact
than all of the

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nation's solar
cells. He
uncovers why
carbon taxes
won't solve our
energy
challenges (and
presents two
taxes that
could). Finally,
he explores how
future environme
ntalists will
focus on

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Towards Cleaner
Production

similarly fresh
alternatives
that are Coal
affordable,
clean, and can
actually improve
our well-being.

Watch a book
trailer.

Occupational
Outlook Handbook
Green Innovation
in China
Smooth

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Towards Cleaner
Transition or
Production
Bumpy Road
Ahead? 2 Coal

Utilisation
Green Illusions
Future of Coal
Woodhead
in India
Publishing Series
Handbook of Coal
In Energy
Analysis

Electrify

Could everything we
know about fossil
fuels be wrong? For
decades,

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environmentalists

Production

have told us that

Volume 2 Coal

using fossil fuels is a

Utilisation

self-destructive

Woodhead

addiction that will

Publishing Series

destroy our planet.

In Energy

Yet at the same time,

by every measure of

human well-being,

from life expectancy

to clean water to

climate safety, life

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Coal Handbook
Towards Cleaner

Production
has been getting
better and better.

Volume 2 Coal
Utilisation
How can this be?

Woodhead
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The explanation,
energy expert Alex
Epstein argues in

In Energy
The Moral Case for
Fossil Fuels, is that
we usually hear only
one side of the story.

We're taught to
think only of the

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Towards Cleaner
Production
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Utilisation
Woodhead
Publishing Series
in Energy

negatives of fossil
fuels, their risks and
side effects, but not
their positives—their
unique ability to
provide cheap,
reliable energy for a
world of seven
billion people. And
the moral
significance of
cheap, reliable

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Towards Cleaner
energy, Epstein
Production
argues, is woefully
Volume 2 Coal
underrated. Energy
Utilisation
is our ability to
Woodhead
improve every single
Publishing Series
aspect of life,
In Energy
whether economic or
environmental. If we
look at the big
picture of fossil fuels
compared with the
alternatives, the

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Utilisation
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overall impact of
using fossil fuels is
to make the world a
far better place. We
are morally
obligated to use
more fossil fuels for
the sake of our
economy and our
environment.

Drawing on original
insights and cutting-

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Towards Cleaner

edge research,

Epstein argues that
most of what we

hear about fossil

fuels is a myth. For
instance . . . Myth:

Fossil fuels are dirty.

Truth: The

environmental

benefits of using

fossil fuels far

outweigh the risks.

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Towards Cleaner

Fossil fuels don't
take a naturally
clean environment
and make it dirty;
they take a naturally
dirty environment
and make it clean.

They don't take a
naturally safe
climate and make it
dangerous; they take
a naturally

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dangerous climate
and make it ever
safer. Myth: Fossil
fuels are
unsustainable, so we
should strive to use
□renewable□ solar
and wind. Truth: The
sun and wind are
intermittent,
unreliable fuels that
always need backup

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Towards Cleaner
Production

from a reliable
source of
energy—usually fossil
fuels. There are huge
amounts of fossil
fuels left, and we
have plenty of time
to find something
cheaper. Myth:
Fossil fuels are
hurting the
developing world.

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Towards Cleaner
Production

Truth: Fossil fuels
are the key to
improving the
quality of life for
billions of people in
the developing
world. If we
withhold them,
access to clean water
plummets, critical
medical machines
like incubators

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Production

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become impossible
to operate, and life
expectancy drops
significantly. Calls
to "get off fossil
fuels" are calls to
degrade the lives of
innocent people who
merely want the
same opportunities
we enjoy in the
West. Taking

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everything into
account, including
the facts about
climate change,
Epstein argues that
□ fossil fuels are easy
to misunderstand
and demonize, but
they are absolutely
good to use. And
they absolutely need
to be championed. . .

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. Mankind's use of fossil fuels is supremely virtuous because human life is the standard of value and because using fossil fuels transforms our environment to make it wonderful for human life.

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Process Chemistry
Production
of Coal Utilization:
Volume 2 Coal
Chemistry Toolkit
Utilisation
for Furnaces and
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Gasifiers presents a
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broad range of
In Energy
quantitative methods
for solving common
problems
surrounding the
performance of coal
utilization

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technologies. As a
Production
logical follow up to
Volume 2 Coal
Niksa's 2019
Utilisation
publication which
Woodhead
covers the Impacts
Publishing Series
of Coal Quality and
In Energy
Operating
Conditions
(9780128187135),
this book
demonstrates the
practical

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applications of the
technologies
previously discussed
and analyzes fuel
quality impacts
across all regions.

Stephen Niksa's
wealth of experience
of commercial
applications of coal
utilization makes
this book an

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invaluable resource
Production
into fuel
Volume 2 Coal
applications, cost
Utilisation
effectiveness and
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policy. Relating coal
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conversion
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chemistry to
practical
applications in
design, validation,
performance and
troubleshooting on a

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commercial scale
Production
makes this book an
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invaluable resource
Utilisation
for a variety of
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readers. Engineers,
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researchers and
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manufacturers will
gain a solid
understanding of
technological
options and a range
of alternative

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approaches that they
can use to tailor their
own testing and
simulation work to
effectively
characterize and
solve problems.

Presents a series of
case studies which
exemplify several
analytical
approaches to fuel

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Towards Cleaner
performance and
technology

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Utilisation
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Illustrates a broad
range of commercial
approaches with
numerous practical
applications to guide
the reader through
testing and
simulation Solves
technical problems
for common

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situations, saving
Production
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readers time and
enabling them to
tailor their own
approach

Australia's dirtiest
habit is its addiction
to coal. But is our
dependence on it a
road to prosperity or
a dead end? Are we
hooked for life? And

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who is profiting
Production
from our addiction?

Volume 2 Coal
Guy Pearse, former
Utilisation
lobbyist and political
Woodhead
insider,

Publishing Series
and investigative
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journalists Bob

Burton and David
McKnight cut
through the spin to
expose the
underbelly of an

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industry whose
power continues to
soar while its
expansion feeds
catastrophic climate
change. They dissect
the charm offensive
(and muscle) the
coal industry uses to
get its way, and
reveal the myth of
'clean coal' and the

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taxpayer-funded PR
machine behind it.
They chart the
stratospheric rise of
a new generation of
coal barons (some
high-profile, others
faceless). And they
lay bare the
desolation in
regional
communities as

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prime farming land
and much else is
stripmined along
with the coal. Most
contentiously of all,
they explore how
Australia can break
its dirtiest habit and
move towards a
prosperous,
sustainable-energy
future.

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Towards Cleaner
Production

An optimistic--but
realistic and
feasible--action plan
for fighting climate
change while
creating new jobs
and a healthier
environment:
electrify everything.
Climate change is a
planetary
emergency. We have

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Production
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to do something
now—but what? Saul
Griffith has a plan.
In Electrify, Griffith
lays out a detailed
blueprint—optimistic
but feasible—for
fighting climate
change while
creating millions of
new jobs and a
healthier

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Towards Cleaner
environment.

Griffith's plan can
be summed up
simply: electrify
everything. He
explains exactly
what it would take to
transform our
infrastructure,
update our grid, and
adapt our households
to make this

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possible. Billionaires
may contemplate
escaping our worn-
out planet on a
private rocket ship to
Mars, but the rest of
us, Griffith says, will
stay and fight for the
future. Griffith, an
engineer and
inventor, calls for
grid neutrality,

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Production
ensuring that
households,
Volume 2 Coal
businesses, and
Utilisation
utilities operate as
Woodhead
equals; we will have
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to rewrite
In Energy
regulations that were
created for a fossil-
fueled world,
mobilize industry as
we did in World War
II, and offer low-

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interest in climate
loans. Griffith's
plan doesn't rely on
big, not-yet-invented
innovations, but on
thousands of little
inventions and cost
reductions. We can
still have our cars
and our houses—but
the cars will be
electric and solar

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panels will cover our
roofs. For a world
trying to bounce
back from a
pandemic and
economic crisis,
there is no other
project that would
create as many
jobs—up to twenty-
five million,
according to one

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economic analysis.

Is this politically
possible? We can
change politics along
with everything else.

Coal

Volume 2: Coal

Utilisation

The Solutions We

Have and the

Breakthroughs We

Need

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How Some
Countries Have
Solved Climate
Change and the Rest
Can Follow
Australia's Dirtiest
Habit

The Dirty Secrets of
Clean Energy and
the Future of
Environmentalism
Research and

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Development to
Production

Support National
Energy Policy
Volume 2 Coal
Utilisation

This book
discusses clean
coal technology
Publishing Series
(CCT), the latest
In Energy
generation of coal
technology that
controls pollutants
and performs with
improved
generating

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Production
Volume 2 Coal
Utilisation
Woodhead
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efficiency. CCT
involves processes
that effectively
control emissions
and result in highly
efficient
combustion
without
significantly
contributing to
global warming.
Basic principles,
operational
aspects, current

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status, on-going
developments and
future directions
are covered. The
recent concept of
viewing carbon
dioxide as a
commodity, and
implementing
CCUS (carbon
capture, utilization
and storage)
instead of CCS for
deriving several

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Production

benefits is also discussed, as is the implementation of CCT in countries with large coal reserves and that utilize large quantities of coal for their energy supply. These countries are also the foremost CO₂ emitters globally and their energy

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policies are crucial
to international
efforts to combat
global warming.
This work will be
beneficial for
students and
professionals in
the fields of fuel,
mechanical,
chemical and
environmental
engineering and
Clean Tech.

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Production

Includes foreword
by Professor
Yiannis Leventis,
College of
Engineering
Distinguished
Professor,
Department of
Mechanical and
Industrial
Engineering,
Northeastern
University, Boston,
MA, USA.

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NEW YORK TIMES
BESTSELLER The

complete, Coal
uncensored history
of the award-
winning The Daily
Show with Jon
Stewart, as told by
its correspondents,
writers, and host.

For almost
seventeen years,
The Daily Show
with Jon Stewart

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Production

brilliantly
redefined the
borders between
television comedy,
political satire, and
opinionated news
coverage. It
launched the
careers of some of
today's most
significant
comedians,
highlighted the
hypocrisies of the

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Towards Cleaner
powerful, and
Production
garnered 23
Emmys. Now the
show's behind-the-
scenes gags,
controversies, and
camaraderie will
be chronicled by
the players
themselves, from
legendary host Jon
Stewart to the star
cast members and
writers-including

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Samantha Bee,
Production
Stephen Colbert,
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John Oliver, and
Utilisation
Steve Carell - plus
Woodhead
some of The Daily
Publishing Series
Show's most
In Energy
prominent guests
and adversaries:
John and Cindy
McCain, Glenn
Beck, Tucker
Carlson, and many
more. This oral
history takes the

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Value? Coal
Utilisation
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reader behind the
curtain for all the
show's highlights,
from its origins as
Comedy Central's
underdog late-
night program to
Trevor Noah's
succession, rising
from a scrappy
jester in the
24-hour political
news cycle to
become part of the

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beating heart of
politics-a trusted
source for not only
comedy but also
commentary, with
a reputation for
calling bullshit and
an ability to effect
real change in the
world. Through
years of incisive
election coverage,
passionate debates
with President

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Production
Obama and Hillary
Clinton, feuds with
Bill O'Reilly and
Fox, and
provocative takes
on Wall Street and
racism, The Daily
Show has been a
cultural
touchstone. Now,
for the first time,
the people behind
the show's seminal
moments come

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together to share
their memories of
the last-minute
rewrites,
improvisations,
pranks, romances,
blow-ups, and
moments of Zen
both on and off the
set of one of
America's most
groundbreaking
shows.

Just a decade ago,

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China maintained only a handful of operating wind turbines -- all imported from Europe and the United States.

Today's electric power companies compete to provide cleaner electricity. That's a good thing, but progress has come with

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costs, especially
for communities
reliant on the coal
industry. Thomas
McGarity examines
the changes of
recent decades and
offers ideas for
building a more
sustainable grid
while easing the
economic
downsides of coal's
demise.

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Prevention and
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The Coal
Handbook:
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Field Book for
Describing and
Sampling Soils
Process Chemistry
of Coal Utilization
Climate of Hope

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Choked
Clean Coal
Production

Technologies for
Power Generation
Utilisation

*This book
examines five
rhetorical
strategies
used by the US
coal industry
to advance its
interests in*

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Utilisation
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*the face of
growing
economic and
environmental
pressures:
industrial
apocalyptic,
corporate
ventriloquism,
technological
shell game,
hypocrite's*

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Production

*trap, and
energy utopia.*

*The authors
argue that
these*

*strategies
appeal to and*

*reinforce
neoliberalism,*

*a discourse
and set of*

practices that

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*privilege
market
rationality
and individual
freedom and
responsibility
above all
else. As the
coal industry
has become the
leading target
and leverage*

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*point for
those seeking
more
aggressive
action to
mitigate
climate
change, their
corporate
advocacy may
foreshadow
rhetorical*

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*strategies
available to
other fossil
fuel
industries as
they manage
similar
economic and
cultural
shifts. The
authors'
analysis of*

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coal's
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corporate
Volume 2 Coal
advocacy also
Utilisation
identifies
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contradictions
Publishing Series
and points of
In Energy
vulnerability
in the
organized
resistance to
climate action
as well as the

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Towards Cleaner
larger

Production
ideological
Volume 2 Coal
formation of
Utilisation
neoliberalism.

Woodhead
Long dismissed
Publishing Series
as a relic of
In Energy
a bygone era,
coal is back
-- with a
vengeance.

Coal is one of
the nation's

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Coal Handbook
Towards Cleaner
Production
biggest and
most
influential
industries --
Woodhead
Big Coal
Publishing Series
provides more
than half the
electricity
consumed by
Americans
today -- and
its dominance

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Coal Handbook
Towards Cleaner
is growing,
Production
driven by
Volume 2 Coal
rising oil
Utilisation
prices and
Woodhead
calls for
Publishing Series
energy
In Energy
independence.
Is coal the
solution to
America's
energy
problems? On

Read Book The
Coal Handbook
Towards Cleaner
Production.

close

examination,

the glowing

promise of

coal quickly

turns to ash.

Coal mining

remains a

deadly and env

ironmentally

destructive

industry.

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Coal Handbook
Towards Cleaner
Production

Nearly forty
percent of the
carbon dioxide
released into
the atmosphere
each year
comes from
coal-fired
power plants.
In the last
two decades,
air pollution

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Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*from coal
plants has
killed more
than half a
million
Americans. In
this eye-
opening call
to action,
Goodell
explains the
costs and*

Read Book The
Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*consequences
of America's
addiction to
coal and
discusses how
we can kick
the habit.
Coal will
continue to
provide a
major portion
of energy*

Read Book The
Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*requirements
in the United
States for at
least the next
several
decades. It is
imperative
that accurate
information
describing the
amount,
location, and*

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Coal Handbook
Towards Cleaner
Production
quality of the
coal resources
and reserves
be available
to fulfill
energy needs.
It is also
important that
the United
States extract
its coal
resources

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Coal Handbook
Towards Cleaner
efficiently,
Production
safely, and in
Volume 2 Coal
an environment
Utilisation
ally
Woodhead
responsible
Publishing Series
manner. A
In Energy
renewed focus
on federal
support for
coal-related
research,
coordinated

Read Book The
Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*across
agencies and
with the
active
participation
of the states
and industrial
sector, is a
critical
element for
each of these
requirements.*

Read Book The
Coal Handbook
Towards Cleaner
Production
Coal focuses
on the
research and
development
needs and
priorities in
the areas of
coal resource
and reserve
assessments,
coal mining
and

Read Book The
Coal Handbook
Towards Cleaner
processing,
Production,
transportation
Volume 2 Coal
of coal and
Utilisation
coal products,
Woodhead
and coal
Publishing Series
utilization.
In Energy
Coal power is
a major cause
of air
pollution and
global warming
and has

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Coal Handbook
Towards Cleaner

*resulted in
the release of
toxic heavy
metals and
radionuclides,
which place
communities at
risk for long-
term health
problems.*

*However, coal-
fired power*

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Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy
plants also
currently fuel
41% of global
electricity.
Clean
Electricity
Through
Advanced Coal
Technologies
discusses the
environmental
issues caused

Read Book The
Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy

*by coal power,
such as air
pollution,
greenhouse gas
emissions and
toxic solid
wastes. This
volume focuses
on
increasingly
prevalent
newer*

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Coal Handbook
Towards Cleaner
generation
Production
technologies
Volume 2 Coal
with smaller
Utilisation
environmental
Woodhead
footprints
Publishing Series
than the
In Energy
existing coal-
fired
infrastructure
throughout
most of the
world. These

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Coal Handbook
Towards Cleaner
technologies
include

fluidized-bed
combustion and
gasification.

It also
provides an
overview of
carbon capture
and

sequestration
technologies

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Coal Handbook
Towards Cleaner
Production
and closely
examines the
Volume 2 Coal
2008 Kingston
Utilisation
TVA spill, the
Woodhead
largest fly
Publishing Series
ash release
In Energy
ever to have
occurred in
the United
States. Each
volume of the
Handbook of

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Coal Handbook
Towards Cleaner
*Pollution
Production
Prevention and
Volume 2 Coal
Cleaner
Utilisation
Production
Woodhead
covers
Publishing Series
In Energy*
manufacturing
technologies,
waste
management,
pollution
issues,
methods for

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Coal Handbook
Towards Cleaner
Production
estimating and
reporting
emissions,
Volume 2 Coal
Utilisation
treatment and
control
Woodhead
Publishing Series
In Energy
worker and
community
health risks,
cost data for
pollution
management,

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Coal Handbook
Towards Cleaner
Production

*and cleaner
production and
prevention
options.*

*Discusses the
environmental
impact of coal
power,
including air
pollution,
greenhouse gas
emissions and*

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Coal Handbook
Towards Cleaner

*solid toxic
wastes Focuses
on newer coal
technologies
with smaller
environmental
footprints
than existing
infrastructure
Provides an
overview of
carbon capture*

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Towards Cleaner
and
Production
sequestration
Volume 2 Coal
technologies
Utilisation
Appalachia's
Woodhead
Coal-Mined
Publishing Series
Landscapes
In Energy
The Coal
Handbook
Desperate
The Chemistry
and Technology
of Petroleum

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Towards Cleaner
Production
An Action Plan
for Solving
Our Climate
Crisis Now
Sustainable
Management of
Coal
Preparation
Volume 2:
Towards
Cleaner Coal
Utilization

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Towards Cleaner
Production

Coal accounts for approximately one quarter of world energy consumption and of the coal produced worldwide approximately 65% is shipped to electricity producers and 33% to industrial consumers, with most of the remainder going to consumers in the

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Coal Handbook
Towards Cleaner
Production
residential and
commercial sectors.

The total share of
total world energy
consumption by coal is
expected to increase to
almost 30% in 2035.

This book describes
the challenges and
steps by which
electricity is produced
from coal and deals
with the challenges for

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy
removing the
environmental
objections to the use of
coal in future power
plants. New
technologies are
described that could
virtually eliminate the
sulfur, nitrogen, and
mercury pollutants
that are released when
coal is burned for
electricity generation.

Read Book The Coal Handbook Towards Cleaner

In addition,
Production
Volume 2 Coal
Utilisation
Workhead
Publishing Series
Energy
and the means of
preventing such
emissions from
contributing to global
warming concerns.

Written by one of the
world ' s leading

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energy experts, this volume is a must-have for any engineer, scientist, or student working in this field, providing a valuable reference and guide in a quickly changing field.

Refineries must not only adapt to evolving environmental regulations for cleaner

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Group
Energy
product specifications
and processing, but
also find ways to meet
the increasing demand
for petroleum
products, particularly
for liquid fuels and
petrochemical
feedstocks. The
Chemistry and
Technology of
Petroleum, Fourth
Edition offers a 21st

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy

century perspective
Coal remains an
important fossil fuel
resource for many
nations due to its large
remaining resources,
relatively low
production and
processing cost and
potential high energy
intensity. Certain
issues surround its
utilisation, however,

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy
production Volume 2
explores global coal
use in industry. Part
one is an introductory
section which reviews
the social and
economic value of

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
In Energy
emissions from
coal utilisation, the
handling, impact and
utilisation of coal
waste, and an
exploration of
emerging and future
issues around
industrial coal
utilization. Chapters
in part two highlight
coal resources,
production and use in

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy

established markets as well as the emerging markets of Brazil, the Russian Federation, India, Indonesia, and China. Part three focuses specifically on coal utilisation in industry. Chapters consider thermal coal utilisation, coal use in iron and steel metallurgy, advances

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Towards Cleaner
Production

in pulverised fuel
technology, and the
evaluation of coal for
thermal and
metallurgical
applications. Further
chapters explore coal
utilisation in the
cement and concrete
industries, coal
gasification and
conversion, and value-
in-use assessment for

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Towards Cleaner
thermal and
Production
metallurgical coal. A
Volume 2 Coal
final chapter
Utilisation
summarises the
Woodhead
anticipated future
Publishing Series
pathway towards
Sustainable
sustainable, long-term
coal use, suggesting
transitions that will be
needed to ensure
cleaner utilisation for
many decades to
come. With its

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy
distinguished editor
and international
team of expert
contributors, The coal
handbook Volumes 1
and 2 is a
comprehensive and
invaluable resource
for professionals in the
coal mining,
preparation, and
utilisation industry,
those in the power

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Production
Volume 2 Coal
Utilisation
Workhead
Publishing Series
Energy
sector, including plant
operators and
engineers, and
researchers and
academics interested
in this field. Reviews
the social and
economic value of
coal, emissions from
coal utilisation, and
the handling, impact
and utilisation of coal
waste Explores

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Towards Cleaner
Production

emerging and future
issues around
Volume 2 Coal
industrial coal
Utilisation Highlights
Woodhead,
coal resources,
Publishing Asian
production and use in
established markets, as
well as emerging
markets such as Brazil,
the Russian
Federation, India,
Indonesia, and China
Natural Gas: A Basic

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Towards Cleaner
Production

Handbook, Second Edition provides the reader with a quick and accessible introduction to a fuel source/industry that is transforming the energy sector. Written at an introductory level, but still appropriate for engineers and other technical readers, this

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book provides an overview of natural gas as a fuel source, including its origins, properties and composition.

Discussions include the production of natural gas from traditional and unconventional sources, the downstream aspects of

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
the natural gas
industry. including
processing, storage,
and transportation,
and environmental
issues and emission
controls strategies.

This book presents an
ideal resource on the
topic for engineers
new to natural gas, for
advisors and
consultants in the

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Towards Cleaner
Production

natural gas industry,
and for technical
readers interested in
learning more about
this clean burning fuel
source and how it is
shaping the energy
industry. Updated to
include newer sources
like shale gas Includes
new discussions on
natural gas hydrates
and flow assurance

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Production
Covers environmental
issues Contain
expanded coverage of
liquefied natural gas
(LNG)

The Moral Case for
Fossil Fuels

Chemistry Toolkit for
Furnaces and Gasifiers
Speed & Scale

A Basic Handbook

An Optimist's

Playbook for Our

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Clean Energy Future
Production
China's Wind Power
Volume 2 Coal
Industry and the
Utilisation
Global Transition to a
Woodhead
Low-carbon Economy
Publishing Series
Volume 1: Coal
Production
Sustainable
Management of
Coal Preparation
explains both the
upstream and
downstream of coal

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Towards Cleaner
preparation,
Production
stressing clean coal
Volume 2 Coal
technologies for
Utilisation
coal utilization. It
Woodhead
not only discusses
Publishing
the sustainability of
Energy
coal preparation,
but also considers
the governance and
management issues
that come with
fulfilling economic,
social and

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environmental
Production
obligations of a
Volume 2 Coal
sustainable mining
Utilisation
operation. Divided
Workhead
in three parts, the
Publishing Series
book explains the
Energy
preparation of
coking and non-
coking coal, clean
technologies, the
principles of
sustainable
management and

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Coal Handbook
Towards Cleaner

emerging

management

issues. The

inclusion of case

studies also

provides a practical

perspective for the

planning and

design of coal

preparation

activities and

environmental

management.

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Coal Handbook
Towards Cleaner

Offers an
integrated
approach to pursue
sustainable
management
between mining,
coal preparation
and final use of
coal Explains the
economic aspects
of coal preparation
in a
modern/developing

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Utilisation
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Publishing Series
In Energy
society with zero-
waste concept
Compiles the best
technologies from
around the world
Uses India, a
developing country,
as a case study to
apply technologies
where there is
maximum potential
for application and
benefit

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Towards Cleaner
Production

A “meticulously researched” (The New York Times Book Review) examination of energy transitions over time and an exploration of the current challenges presented by global warming, a surging world population, and renewable

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Coal Handbook
Towards Cleaner
energy—from
Pulitzer Prize- and
National Book
Award-winning
author Richard
Rhodes. People
have lived and died,
businesses have
prospered and
failed, and nations
have risen to world
power and
declined, all over

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Production
Volume 2 Coal
Utilisation
Waltham Series
Publishing Series
Energy
Richard Rhodes
explains how wood
gave way to coal
and coal made
room for oil, as we
now turn to natural
gas, nuclear power,

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Towards Cleaner
and renewable
Production
energy.

“Entertaining and
informative...a
powerful look at
the importance of
science” (NPR.org),
Rhodes looks back
on five centuries of
progress, through
such influential
figures as Queen
Elizabeth I, King

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Production
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Utilisation
Woodhead
Publishing Series
Energy

James I, Benjamin
Franklin, Herman
Melville, John D.
Rockefeller, and
Henry Ford. In his
“magisterial
history...a tour de
force of popular
science” (Kirkus
Reviews, starred
review), Rhodes
shows how
breakthroughs in

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Energy

energy production
occurred; from
animal and
waterpower to the
steam engine, from
internal-
combustion to the
electric motor. He
looks at the current
energy landscape,
with a focus on how
wind energy is
competing for

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Utilisation
Wharfedale
Publishing Coles
Wiley

dominance with
cast supplies of
coal and natural
gas. He also
addresses the
specter of global
warming, and a
population hurtling
towards ten billion
by 2100. Human
beings have
confronted the
problem of how to

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Production
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Utilisation
Woodhead
Publishing Series
Energy

draw energy from
raw material since
the beginning of
time. Each
invention, each
discovery, each
adaptation brought
further challenges,
and through such
transformations,
we arrived at
where we are
today. “A

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Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy
beautifully written,
often inspiring saga
of ingenuity and
progress...Energy
brings facts,
context, and clarity
to a key, often
contentious
subject” (Booklist,
starred review).

The Coal
Handbook:
Towards Cleaner

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Coal Handbook
Towards Cleaner
Coal Utilization,
Volume Two,
Second Edition
provides
authoritative
insights on a
variety of case
studies to help the
reader identify the
most appropriate
technologies to
take coal, and its
associated by-

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Towards Cleaner
products, into a
cleaner

environment, one
with integrated
energy systems.

Editor Dave Series

Osborne and his
team of expert
contributors
combine their
expertise to

highlight the future
direction of coal

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Coal Handbook
Towards Cleaner
Production
Volume 2 Coal
Utilisation

utilization towards
more efficient and
clean use of coal.

Key emerging
topics such as the
cleanest ways to
deal with coal
waste and emission
reduction are
covered alongside a
selection of case
studies from
various countries.

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Towards Cleaner
Production

This edition
includes two brand
new chapters on
technology variants
and systems,
including hybrid
systems and
advanced CO₂
abatement
strategies. With its
distinguished
editor and
international team

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Utilisation
Woodhead
Publishing Series
Energy

of expert
contributors, this
book is a
comprehensive and
invaluable resource
for professionals in
the coal mining,
preparation and
utilization industry.
Reflects the latest
knowledge on the
social and
economic value of

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coal, emissions
Production
from coal
Volume 2 Coal
utilization, and the
Utilization
handling, impact
and utilization of
Woodhead
coal waste Explores
Publishing
emerging and
Energy
future issues
around industrial
coal utilization,
with a strong focus
on sustainability
Highlights coal

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resources,
Production
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Energy
in Brazil, the
Russian Federation,
India, Indonesia
and China Includes
two brand new
chapters on Hybrid

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Technologies and
Advanced CO2
Abatement
Strategies

Mark Twain

observed, "I'm in
favour of progress;
it's change I don't
like." Coal
dominates Indian
energy because it's
available
domestically and

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing
Energy

cheap (especially
without a carbon
tax). If the global
focus is on the
energy transition,
how does India
ensure a just
transition?

Managing winners
and losers will be
the single largest
challenge for
India's energy

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policy. Coal is entrenched in a complex ecosystem. In some states, it's amongst the largest contributors to state budgets. The Indian Railways, India's largest civilian employer, is afloat because it overcharges coal to offset under-

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Coal Handbook
Towards Cleaner
recovery from
Production
passengers. Coal
Volume 2 Coal
India Limited, the
Utilisation
public sector miner
Woodhead
that produces 85%
Publishing Co. is
of domestic coal, is
the world's largest
Energy
coal miner. But
despite enormous
reserves, India
imports about a
quarter of
consumption. On

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Coal Handbook
Towards Cleaner
Production

the flip side, coal
faces inevitable
pressure from
renewable energy,
which is the
cheapest option for
new builds.

However, there is
significant coal-
based power
capacity already in
place, some of
which is

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Coal Handbook
Towards Cleaner
Production

underutilized, or even stranded. Low per-capita energy consumption means India must still grow its energy supply. Before India can phase out coal, it must first achieve a plateau of coal. How this happens cost-effectively and with

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy

least resistance
isn't just a
technical or
economic question,
it depends on the
political economy
of coal and its
alternatives. Some
stakeholders want
to kill coal. A wiser
option may be to
first clean it up,
instead of wishing

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Towards Cleaner
Production

it away. Across 18 chapters, drawing from leading experts in the field, we examine all aspects of coal's future in India. We find no easy answers, but attempt to combine the big picture with details, bringing them together to

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Production
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Utilisation
Woodhead
Publishing Series

Resources and
Communities in a
New Energy Era
A Human History
Big Coal
An Oral History as
Told by Jon

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Towards Cleaner

Stewart, the
Correspondents,
Staff and Guests
How Cities,
Businesses, and
Citizens Can Save
the Planet

Set in Appalachian
coal country, this
"superb" (Pittsburgh
Post-Gazette) legal
drama follows one
determined lawyer

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Coal Handbook
Towards Cleaner
Production

as he faces a coal industry giant in a seven-year battle over clean drinking water for a West Virginia community.

For two decades, the water in the taps and wells of Mingo County didn't look, smell, or taste right. Could the water be the root of the

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Towards Cleaner
health
Production
problems—from
Volume 2 Coal
kidney stones to
Utilisation
cancer—in this
Woodhead
Appalachian
Community? Series
Environmental
lawyer Kevin
Thompson certainly
thought so. For
seven years,
Thompson waged
an epic legal battle

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Coal Handbook
Towards Cleaner

against Massey

Energy, West

Virginia's most

powerful coal

company, helmed

by CEO Don Series

Blankenship. While

Massey's lawyers

worked out of a gray

glass office tower in

Charleston known

as "the Death Star,"

Thompson set up

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Towards Cleaner
Production

shop in a ramshackle hotel in the fading coal town of Williamson.

Working with fellow lawyers and a crew of young activists, Thompson would eventually uncover the ruthless shortcuts that put the community's drinking water at

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Towards Cleaner
Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Series
Energy

risk. Retired coal
miners, women
whose families had
lived in the area's
coal camps for
generations, a
respected preacher
and his brother, all
put their trust in
Thompson when
they had nowhere
else to turn.

Desperate is a

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Towards Cleaner

Production
Volume 2 Coal
Utilisation
Woodhead
Publishing Group
Energy
masterful work of
investigative
reporting about
greed and denial,
□ both a case study
in exploitation of the
little guy and a
playbook for
confronting it□
(Kirkus Reviews).

Maher crafts a
revealing portrait of
a town besieged by

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Production
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Utilisation
Woodhead
Publishing
Energy

hardship and
heartbreak, and an
inspiring account of
one tenacious
environmental
lawyer's mission to
expose the truth and
demand justice.
Nothing is as
elemental, as
essential to human
life, as the air we
breathe. Yet around

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Towards Cleaner

Production
Volume 2 Coal
Utilisation
Worldhead
Publishing Series
Renewable Energy

the world, in rich
countries and poor
ones, it is quietly
poisoning us. Air
pollution
prematurely kills
seven million people
every year,
including more than
one hundred
thousand
Americans. It is
strongly linked to

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Coal Handbook
Towards Cleaner

strokes, heart
attacks, many kinds
of cancer, dementia,
and premature birth,
among other

ailments. In Choked,
Beth Gardiner

travels the world to
tell the story of this
modern-day plague,
taking readers from
the halls of power in
Washington and the

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Towards Cleaner
Production

diesel-fogged

London streets she
walks with her

daughter to

Poland's coal

heartland and

India's gasping

capital. In a gripping

narrative that's alive

with powerful voices

and personalities,

she exposes the

political decisions

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and economic
forces that have
kept so many of us
breathing dirty air.

This is a moving, up-
close look at the

human toll, where
we meet the

scientists who have
transformed our
understanding of
pollution's effects

on the body and the

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ordinary people
fighting for a cleaner
future. In the United
States, air is far
cleaner than it once
was. But progress
has failed to keep
up with the science,
which tells us that
even today's lower
pollution levels are
doing real damage.
And as the Trump

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administration rips
up the regulations
that have brought us
where we are,
decades of gains
are now at risk.

Elsewhere, the
problem is far
worse, and choking
nations like China
are scrambling to
replicate the
achievements of an

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agency—the

EPA—that until

recently was the

envy of the world.

Clean air feels like a

birthright. But it can

disappear in a puff

of smoke if the rules

that protect it are

unraveled. At home

and around the

world, it's never

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Energy Choked
shows us that we
hold the power to
build a cleaner,
healthier future: one
in which breathing,
life's most basic

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function, no longer
carries a hidden
danger.

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The Daily Show
(The Book)