

STEP0004: Clean Energy and Development: (Academic Year 2018/19)

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65 items

Drivers for Clean Energy: Development & Climate Change (8 items)

Mapping synergies and trade-offs between energy and the Sustainable Development Goals - Francesco Fuso Nerini, Julia Tomei, Long Seng To, Iwona Bisaga, Priti Parikh, Mairi Black, Aiduan Borrion, Catalina Spataru, Vanesa Castán Broto, Gabriel Anandarajah, Ben Milligan, Yacob Mulugetta, 2017-11-20

[Article](#) | [Essential](#)

Emissions Gap Report | UN Environment

[Webpage](#) | [Essential](#) | READ ONLY THE EXECUTIVE SUMMARY, unless you are very keen

The energy-poverty-climate nexus - Casillas, Christian E., Kammen, Daniel M.

[Article](#) | [Essential](#)

Introducing Sustainable Development Goals - YouTube

[Audio-visual document](#) | [Essential](#)

Can developing countries leapfrog the centralized electrification paradigm? - Todd Levin, Valerie M. Thomas, 2016-04

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Financing renewable energy in Africa – Key challenge of the sustainable development goals - Gregor Schwerhoff, Mouhamadou Sy, 2017-08

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Global Warming of 1.5°C | IPCC Special Report (2018) Summary for Policymakers

[Document](#) | [Recommended](#) | An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and the efforts to eradicate poverty

Bridging the emissions gap - The role of non-state and subnational actors | UN Environment (2018)

[Document](#) | [Recommended](#) |

This publication is a pre-release version of a chapter in the forthcoming UN Environment Emissions Gap Report 2018. It provides an assessment of the role and potential impact of mitigation actions by non-state and subnational actors such as cities, states, regions, companies, investors and foundations.

Global Sustainable Energy Transitions (8 items)

Global energy dilemmas: a geographical perspective - MICHAEL J BRADSHAW, 2010-12[Article](#) | [Essential](#)

The coming sustainable energy transition: History, strategies, and outlook - Barry D.

Solomon, Karthik Krishna, 2011-11

[Article](#) | [Essential](#)

The geographical distribution of fossil fuels unused when limiting global warming to 2 °C -

Christophe McGlade, Paul Ekins, 2015-1-7

[Article](#) | [Essential](#)

The emerging field of energy transitions: Progress, challenges, and opportunities -

Kathleen Araújo, 2014-03

[Article](#) | [Recommended](#)

Landscape for change? International climate policy and energy transitions: evidence from sub-Saharan Africa - Peter Newell, Harriet Bulkeley, 2017-07-04[Article](#) | [Recommended](#)

Energy Transitions (The Pardee Papers/No. 12/November 2010)[Document](#) | [Recommended](#)

Carbon Lock-In: Types, Causes, and Policy Implications - Karen C. Seto, Steven J. Davis, Ronald B. Mitchell, Eleanor C. Stokes, Gregory Unruh, Diana Ürge-Vorsatz, 2016-11[Article](#) | [Recommended](#)

Disruption and low-carbon system transformation: Progress and new challenges in socio-technical transitions research and the Multi-Level Perspective - Frank W. Geels, 2018-03[Article](#) | [Recommended](#)

Energy Generation Options: Renewable Energy Technologies (6 items)

Renewable energy resources: Current status, future prospects and their enabling technology - Omar Ellabban, Haitham Abu-Rub, Frede Blaabjerg, 2014-11[Article](#) | [Essential](#)

Smart and Just Grids for sub-Saharan Africa: Exploring options - Manuel Welsch, Morgan Bazilian, Mark Howells, Deepak Divan, David Elzinga, Goran Strbac, Lawrence Jones, Andrew Keane, Dolf Gielen, V.S.K. Murthy Balijepalli, Abeeku Brew-Hammond, Kandeh Yumkella, 2013-04[Article](#) | [Essential](#)

Decentralized energy systems for clean electricity access - Peter Alstone, Dimitry Gershenson, Daniel M. Kammen, 2015-4[Article](#) | [Essential](#)

Energy storage systems for renewable energy power sector integration and mitigation of intermittency - Mohammed Yekini Suberu, Mohd Wazir Mustafa, Nouruddeen Bashir, 2014-07[Article](#) | [Essential](#)

Renewable Energy: Power for a Sustainable Future - Boyle, Godfrey, 2012

[Book](#) | Recommended

Technology Roadmap: Solar photovoltaic energy - IEA, 2014

[Report](#) | Recommended

Demand Side Options: Technologies & Behavioural Change (3 items)

The energy ladder: Theoretical myth or empirical truth? Results from a meta-analysis -

Bianca van der Kroon, Roy Brouwer, Pieter J.H. van Beukering, 2013-04

[Article](#) | Essential

Improving Access to Modern Energy Services: Insights from Case Studies - Morgan

Bazilian, Patrick Nussbaumer, Christine Eibs-Singer, Abeeku Brew-Hammond, Vijay Modi, Benjamin Sovacool, Venkata Ramana, Peri-Khan Aqrawi, 2012-1

[Article](#) | Essential

Powering a Home with Just 25 Watts of Solar PV: SuperEfficient Appliances Can Enable Expanded Off-Grid Energy Service Using Small Solar Power Systems

[Document](#) | Essential

Policy, Regulation and Politics (10 items)

The Political Economy of Energy Transitions: The Case of South Africa - Lucy Baker, Peter Newell, Jon Phillips, 2014-11-02

[Article](#) | Essential

The role of governments in renewable energy: The importance of policy consistency -

William White, Anders Lunnan, Erlend Nybakk, Biljana Kulisic, 2013-10

[Article](#) | Essential

What is challenging renewable energy entrepreneurs in developing countries? - Cle-Anne Gabriel, 2016-10

[Article](#) | Essential

Independent Power Projects in Sub-Saharan Africa: Investment trends and policy lessons -

Anton Eberhard, Katharine Gratwick, Elvira Morella, Pedro Antmann, 2017-09

[Article](#) | Essential

Asian Electricity Reform in Historical Perspective - James H. Williams and Navroz K. Dubash, 2004

[Article](#) | Recommended

GET FiT Uganda: PPIAF Short Story Competition - Rieger, Stephanie, 2015

[Report](#) | Recommended

Renewables 2016 Global Status Report - REN21

Webpage | **Recommended** | Only Executive Summary and Key Findings for Policy Makers is required reading.

Political Economy of Climate-relevant Policies: the Case of Renewable Energy in South Africa - Morris, Mike, Martin, Lucy, 2015

Report | **Recommended**

Africa and the export of China's clean energy revolution - Wei Shen, Marcus Power, 2017-03-04

Article | **Recommended**

Political power and renewable energy futures: A critical review - Matthew J. Burke, Jennie C. Stephens, 2018-01

Article | **Recommended** | Inspired by the energy democracy movement, this conceptual review critically explores relationships between concentrated or distributed renewable energy and political power.

Energy Across Sectors: Perspectives, Approaches & Tools (8 items)

Grid and off-grid electrification: An integrated model with applications to India - Johannes Urpelainen, 2014-04

Article | **Essential**

Renewable Energy Sources and Climate Change Mitigation - 2011

Book | **Essential** | (READ only PAGES 615 to 627)

An integrated systems model for energy services in rural developing communities - Nordica A. MacCarty, Kenneth Mark Bryden, 2016-10

Article | **Essential**

Sustainable energy planning: Leapfrogging the energy poverty gap in Africa - S. Szabó, K. Bódis, T. Huld, M. Moner-Girona, 2013-12

Article | **Essential**

The Electricity-Groundwater Conundrum: Case for a Political Solution to a Political Problem - Navroz K. Dubash, 2008

Article | **Recommended**

Chapter 1: The Multi-faceted Nature of Capacity: Two Leading Frameworks - Ubels, Jan, Fowler, Alan

Chapter | **Essential**

Technology Needs Assessments. Summary of country priorities (2015-2018) | UNEP-DTU & UNFCCC Secretariat

Document | **Recommended** | Understanding technology needs is the starting point for effective action on climate change. Before investing in technologies that reduce greenhouse gas emissions and adapt to climate change impacts, it is essential to assess and analyse a country's specific needs, as relates to its specific set of circumstances. This

information can then be used to set priorities and identify appropriate technologies. Technology Needs Assessments are designed to do precisely this type of in-depth analysis.

Online Tool and Database Analyze NDC-SDG Links | News | SDG Knowledge Hub | IISD

Webpage | **Recommended** | The German Development Institute (DIE) and the Stockholm Environment Institute (SEI) launched a tool that highlights synergies between the 2030 Agenda for Sustainable Development and its Sustainable Development Goals (SDGs), and the Nationally Determined Contributions (NDCs) submitted by countries under the Paris Agreement on climate change.

Business Models Innovations (7 items)

Business models for model businesses: Lessons from renewable energy entrepreneurs in developing countries - Cle-Anne Gabriel, Jodyanne Kirkwood, 2016-08

Article | **Essential**

Business models for mini-grid electricity in base of the pyramid markets - James Knuckles, 2016-04

Article | **Essential**

THE RELEVANCE OF THE COOPERATIVE MODEL IN THE FIELD OF RENEWABLE ENERGY -

Benjamin HUYBRECHTS, Sybille MERTENS, 2014-06

Article | **Essential**

Accelerating access to energy services: Way forward - Ibrahim Hafeezur Rehman, Arun Sreekumar, Bigsna Gill, Ernst Worrell, 2017-03

Article | **Recommended**

Power people planet: seizing Africa's energy and climate opportunities : Africa progress report 2015 - Africa Progress Panel, 2015

Document | **Recommended**

Sustainable energy for whom? Governing pro-poor, low carbon pathways to development: Lessons from solar PV in Kenya - Byrne, R., Ockwell, D., Urama, K., Ozor, N., Kirumba, E., Ely, A., Becker, S., Gollwitzer, L., 2014

Report | **Recommended**

Measures for diffusion of solar PV in selected African countries - Ivan Nygaard, Ulrich Elmer Hansen, Gordon Mackenzie, Mathilde Brix Pedersen, 2017-08-09

Article | **Recommended**

Financing Clean Energy (6 items)

Financing renewable energy: Who is financing what and why it matters - Mariana Mazzucato, Gregor Semieniuk, 2018-02

Article | **Essential**

The role of local private participation in China's transition to domestically developed renewable energy technologies - Kaijian Li, Guiwen Liu, Asheem Shrestha, Igor Martek, Xiaoling Zhang, 2018-02

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Financing renewable energy in Africa - Key challenge of the sustainable development goals - Gregor Schwerhoff, Mouhamadou Sy, 2017-08

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South Africa's Renewable Energy IPP Procurement Programmes: Success Factors and Lessons - Eberhard A., Kolker J., Leigland J.

[Document](#) | [Essential](#) | [Only Executive Summary](#)

Opening the Black Box of Carbon Finance "Additionality": The Political Economy of Carbon Finance Effectiveness across Tanzania, Uganda, and Moldova - Mark Purdon, 2015-10

[Article](#) | [Recommended](#)

Portfolio dashboard | Green Climate Fund

[Webpage](#) | [Recommended](#)

Unlocking Opportunities for Energy Access (5 items)

Turning the lights on: sustainable energy and development in Viet Nam - Scott, Andrew, Greenhill, Romilly, 2014, 2015-12-22

[Report](#) | [Essential](#)

The Chinese electricity access model for rural electrification: Approach, experience and lessons for others - Subhes C. Bhattacharyya, Sanusi Ohiare, 2012-10

[Article](#) | [Essential](#)

Making Renewable Energy a Success in Bangladesh: Getting the Business Model Right

[Document](#) | [Essential](#)

Renewable Energy Market Analysis. Latin America | IRENA (2016)

[Document](#) | [Recommended](#) | Useful material to analyse renewable energy market challenges opportunities in Latin America

Chile's renewable energy potential promises multiple benefits for the country

[Webpage](#) | [Recommended](#) | Case study. Chile's energy sector is evolving dynamically in recent years and significant institutional and policy reforms as well as major infrastructure projects have been carried out. The country's National Energy Policy 2050 was adopted in 2015, following an exceptionally inclusive public consultation. The electricity sector, in particular, has developed quickly.

Bringing it All Together (4 items)

How to achieve full electrification: Lessons from Latin America - Albert Banal-Estañol, Joan Calzada, Jacint Jordana, 2017-09

[Article](#) | Essential

Review of policies encouraging renewable energy integration & best practices - Zeineb Abdmouleh, Rashid A.M. Alammari, Adel Gastli, 2015-05

[Article](#) | Essential

Power for Development: A Review of Distributed Generation Projects in the Developing World - Jennifer N. Brass, Sanya Carley, Lauren M. MacLean, Elizabeth Baldwin, 2012-11-21

[Article](#) | Essential

A model to evaluate the success of Solar Home Systems - Hans Holtorf, Tania Urmee, Martina Calais, Trevor Pryor, 2015-10

[Article](#) | Essential