

Energy-Based Economic Development

Sanya Carley · Sara Lawrence

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How Clean Energy can Drive Development
and Stimulate Economic Growth

 Springer

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Acronyms

AGECC	Advisory Group on Energy and Climate Change
ARPA-E	Advanced Research Projects Agency-Energy
BLS	Bureau of Labor Statistics
CCS	Carbon Capture and Sequestration
CNG	Compressed Natural Gas
CO ₂	Carbon dioxide
CSIR	Council on Scientific and Industrial Research
CUSP	Curtin University Sustainability Policy Institute
EBED	Energy-Based Economic Development
EE	Energy Efficiency
EIA	Energy Information Administration
EUNIP	European Network on Industrial Policy
FDI	Foreign Direct Investment
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GW	Gigawatt
HOV	High Occupancy Vehicle
IBM	International Business Machines
IEA	International Energy Agency
ILO	International Labour Organization
IOE	International Organisation of Employers
IPCC	Intergovernmental Panel on Climate Change
ITUC	International Trade Union Confederation
JEDI model	Jobs and Economic Development Impact model
JSBC	Japan Small Business Corporation
kW	Kilowatt
kWh	Kilowatt hour
LED	Light-emitting Diode
LEDS	Low Emission Development Strategies
LFG	Landfill-derived Gas
m ²	Square meters
M-PESA	Mobile money (Swahili)

MW	Mega-watt
MW _a	“Average installed megawatts de-rated by the capacity factor of the technology” (Kammen et al. 2006) ¹
MWh	Megawatt hour
NASA (in refs)	National Aeronautics and Space Administration
NGA	National Governors Association
NGO	Nongovernmental Organization
NJPIRG	New Jersey Public Interest Research Group
NO _x (or NO _x)	Nitrogen oxides
NREL	National Renewable Energy Laboratory
O&M	Operations and Maintenance
OECD	Organisation for Economic Cooperation and Development
Open EI	Open Energy Info
R&D	Research & Development
RD&D	Research, Development, and Deployment
RE	Renewable Energy
REPP	Renewable Energy Policy Project
RES	Renewable Energy Standard
RTI	RTI International
SARi	South African Renewables Initiative
SBIR	Small Business Innovation Research
SMEs	Small to Medium Enterprises
SO ₂ (or SO ₂)	Sulfur dioxide
TIP	Technology Information Policy Consulting
TVEs	Township and Village Enterprises
TWh	Terawatt hour
US	United States
(US) EPA	Environmental Protection Agency
UN	United Nations
UNDP	United Nations Development Programme
UNEP	United Nations Environmental Programme
UN-Habitat	United Nations Human Settlements Programme
USA	United States of America
WB	World Bank
WHO	World Health Organization

¹ Kammen D, Kapadia K, Fripp M (2006) Putting renewables to work: how many jobs can the clean energy industry create? Renewable and Appropriate Energy Laboratory (RAEL), University of California, Berkeley, CA.