FORMAT				
1. Name of resource	Energy Literacy: Essential Prin	nciples fo	r Energy Education	
2. Location	https://www.energy.gov/energysaver/energy-literacy-			
	essential-principles-energy-ec	<u>ducation</u>		
3. Alternative location				
4. Author[s]	Energy Saver			
5. Publisher/producer/ho	Energy Saver			
st				
6. Year	2017			
7. Suggested citation	Energy Saver (2017), Energy Literacy: Essential Principles			
	for Energy Education,			
	https://www.energy.gov/energysaver/energy-literacy-			
	essential-principles-energy-education			
8. Languages in which available	English, Spanish [PDF] (web pa	ages trans	slate automatically)	
9. Geographic area	US with wider relevance			
resource relates to				
10. Does the resource				
relate to a specific time				
frame?				
11. Туре	Report			
	Toolkit/Framework/Roadmap		Yes	
	Sign-post to other resource Yes			
	(database)			
	Case studies Yes			
	Other		Links to	
			educational	
12 Dout of on initiative?			resources, videos	
12. Part of an initiative? COLLECTIONS AND COLLECTION				
13. Explicit links to	No			
collections				
14. Explicit links to	Yes			
museums/libraries/arc				
hives				
15. Types of institutions	Museums X			
relevant to	Archives X			
			X	
	Other	X		
16. Does the resource	Arts, humanities and X			
relate to specific	social sciences:			
disciplines?	philosophy, psychology,			
	religion, social sciences,			
	law, politics, language,			

	arts and recreation,			
	architecture, literature,			
	history, geography and			
	ethnology, anthropology,			
	archaeology			
	Science, natural history,	Х		
	technology, medicine,			
	engineering,			
	manufacturing			
17. If no explicit links to	The principles can be applied	ed to collections-based		
collections, justification	institutions, in terms of how	terms of how they develop their education		
for inclusion	and participation programn	nes, and tl	heir climate actions	
	more broadly.			
HOW IT CONTRIBUTES TO SUST	AINABLE DEVELOPMENT			
18. Collections-related activ	ities the resource relates to	(mark all t	that apply)	
Develop collections to protect a		-		
natural heritage more effective				
collecting to threatened forms o				
Use collections to promote lear)	<	
opportunities that contribute to	-	nore		
effectively, for example education	-			
and sustainable lifestyles, human				
promotion of a culture of peace				
citizenship and appreciation of c	re's			
contribution to sustainable deve				
relating to collections		•		
Use collections to promote cult	ural participation/social incl	usion		
more effectively, for example by				
to ensure no-one is 'left behind'				
Use collections to promote sust	ainable tourism more effect	ively,		
for example by developing new				
heritage, and/or considering the				
relation to collections				
Use collections to support resea	rch that contributes to			
sustainable development (inclusion		d self-		
directed research at all levels that				
more effectively, for example by		· · · ·		
collections and information to meet researchers' needs				
Make decisions around collection		nable		
development more effectively				
	ng, staff training, staff safety	r))	<	
	greenhouse gas emissions,		<	
reduction, monitoring and reporting				
	ind reduction of waste	Ŋ	κ	
iv. transport (forms of tr		,		
	including copyright and IP			
vi. governance and man				
vi. governance and man				

Direct external leadership, part	paredness and risk reduction	X		
	Direct external leadership, partnerships and collaborations X			
-	ent more effectively, for example			
by developing impactful partner				
	e clearly to any international conven	tions (mark all that		
apply)?				
Culture conventions:				
1952, 71 Protection of Copyright	t and Neighbouring Rights			
1954 Protection of Cultural Prop	1954 Protection of Cultural Property in the Event of Armed Conflict			
1970 Fighting Against the Illicit	1970 Fighting Against the Illicit Trafficking of Cultural Property			
1972 Protection of the World Cu	Iltural and Natural Heritage			
2001 Protection of the Underwa	iter Cultural Heritage			
2003 Safeguarding of the Intang	ible Cultural Heritage			
2005 Protection and Promotion				
Expressions				
Rio Conventions:				
	ity (CBD), Convention to Combat	Х		
Desertification (UNCCD), Frame				
Change (UNFCCC)				
AIMS AND CONTENT				
20. What issues does the	"WHAT IS ENERGY LITERACY?			
resource aim to	Energy Literacy is an understandin	g of the nature and		
address?	role of energy in the world and da	-		
	by the ability to apply this underst	-		
	questions and solve problems.			
questions and solve problems.				
	An energy-literate person:			
	An energy-literate person: Can trace energy flows and think in	n terms of energy		
	Can trace energy flows and think in	n terms of energy		
	Can trace energy flows and think in systems.			
	Can trace energy flows and think in systems. Knows how much energy they use			
	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from.	, for what purpose, and		
	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform	, for what purpose, and nation about energy.		
	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform Can communicate about energy ar	, for what purpose, and nation about energy.		
	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform Can communicate about energy ar meaningful ways.	, for what purpose, and nation about energy. nd energy use in		
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	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform Can communicate about energy ar meaningful ways. Is able to make informed energy u an understanding of impacts and c WHAT IS THE ENERGY LITERACY FR Image Energy Literacy Energy Literacy: Essential Principle	, for what purpose, and nation about energy. nd energy use in se decisions based on consequences. RAMEWORK?		
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	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform Can communicate about energy ar meaningful ways. Is able to make informed energy u an understanding of impacts and c WHAT IS THE ENERGY LITERACY FR Image Energy Literacy Energy Literacy: Essential Principle Concepts for Energy Education is a approach to teaching and learning	, for what purpose, and nation about energy. nd energy use in se decisions based on consequences. RAMEWORK? es and Fundamental n interdisciplinary about energy. The		
	Can trace energy flows and think in systems. Knows how much energy they use where the energy comes from. Can assess the credibility of inform Can communicate about energy ar meaningful ways. Is able to make informed energy u an understanding of impacts and c WHAT IS THE ENERGY LITERACY FR Image Energy Literacy Energy Literacy: Essential Principle Concepts for Energy Education is a approach to teaching and learning framework identifies seven Essent	, for what purpose, and nation about energy. nd energy use in se decisions based on consequences. RAMEWORK? es and Fundamental in interdisciplinary about energy. The ial Principles and a set		
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	accontial for all citizons K Craw It presents anarray		
	essential for all citizens K-Gray. It presents energy		
	concepts that, if understood and applied, will help		
	individuals and communities make informed energy		
	decisions		
	HOW SHOULD WE APPROACH ENERGY LITERACY?		
	Energy Literacy looks at energy through the lens of		
	natural science as well as social science. Energy issues		
	require an understanding of civics, history, economics,		
	sociology, psychology, and politics in addition to science,		
	technology, engineering and mathematics. A		
	comprehensive study of energy and curriculum designed		
	using Energy Literacy should be interdisciplinary and use		
	a systems-based approach to fully appreciate the		
	complexities of energy issues."		
21. Intended audience of	"The intended audience for the Energy Literacy document		
resource	is anyone involved in energy education. Intended use of		
	the document as a guide includes, but is not limited to,		
	formal and informal energy education, standards		
	development, curriculum design, assessment		
	development, and educator trainings."		
22. Process of	"The Energy Literacy document is the culmination of		
development	public listening sessions and thousands of experts from		
	diverse fields of study contributing to a dialogue about		
	what an energy literate person should know and		
	understand. This included over 20 recognized educational		
	partners and 13 federal agencies that comprise the U.S.		
	Global Change Research Program Partner agencies."		
23. Organisation/structure	[Web page]		
/contents	What is energy literacy?		
	What is the energy literacy framework?		
	Who led the development of the energy literacy		
	document?		
	How should we approach energy literacy? Who is the audience for the framework?		
	Energy literacy framework resources		
FRAMEWORKS			
24. Framework structure	Energy literacy is set out as a framework (see the resource		
	for further information):		
	Energy is a physical quantity that follows precise		
	natural laws.		
	 Physical processes on Earth are the result of 		
	energy flow through the Earth system.		
	 Biological processes depend on energy flow 		
	through the Earth system.		

	 Various sources of energy can be used to power human activities, and often this energy must be transferred from source to destination. Energy decisions are influenced by economic, political, environmental, and social factors. The amount of energy used by human society depends on many factors. The quality of life of individuals and societies is affected by energy choices A set out intended outcomes are also set out as a framework: An energy-literate person: can trace energy flows and think in terms of energy systems knows how much energy he or she uses, for what, and where that energy comes from can assess the credibility of information about energy can communicate about energy and energy use in meaningful ways is able to make informed energy and energy use decisions based on an understanding of impacts and consequences
	• continues to learn about energy throughout
	his or her life.
25. Relevant policy considerations	Yes
26. Resources for	Yes
implementation identified	
27. Specific assessment points/indicators/miles tones/action plan for monitoring	Yes
28. ASPECTS OF SUSTAINAB	ILITY COVERED BY RESOURCE (mark all that apply)
People (social sustainability)	X
Planet (environmental	X
sustainability)	
Prosperity (economic sustainability)	X
Peace	
Partnerships	
	ERATIONS COVERED BY RESOURCE (mark all that apply)
Gender perspectives	
North and South perspectives	

HOW THE RESOURCE CONTRIBUTES TO AGENDA 2030 AND THE SDGs			
HOW AGENDA 2030 AND THE S	DGs FEATURE IN THE RESOURCE		
30. SDGs and Agenda 2030	No		
specifically mentioned?			
31. SDGs specifically	No		
mentioned?			
32. SDG targets specifically	No		
mentioned?			
33. SDG indicators	No		
specifically mentioned?			
SDGs AND SDG TARGETS AND L			
34. Comments on SDG	Working to support the Principles contributes to a wide		
linkages	range of SDG targets, including:		
	4.4 (skills for work), 4.7 (Education for Sustainable		
	Development), 7.2 (adopting renewable energy sources),		
	7.3 (energy efficiency), 12.8 (education for sustainable		
	lifestyles), 13.1 (climate adaptation), 13.3 (climate		
	education and institutional capacity) and 13.B (climate		
	action for Global South countries).		
35. SDGs and SDG targets th	e resource helps advance		
SDG 4. Ensure inclusive and			
equitable quality education	Number of young people and adults in skills-development		
and promote lifelong learning	activities and programmes drawing on collections, for		
opportunities for all	employment, decent jobs and entrepreneurship		
4.4 By 2030, substantially			
increase the number of youth	Increase in number of young people and adults in such		
and adults who have relevant	programmes		
skills, including technical and			
vocational skills, for	Number and proportion of staff who have received		
employment, decent jobs and	training in the last year, to better support their		
entrepreneurship	contribution to the SDGs.		
	Programs and processes in place to ensure the availability		
	of a skilled workforce.		
SDG 4. Ensure inclusive and	Numbers of people in each ture of programme drawing an		
equitable quality education	Numbers of people in each type of programme drawing on		
and promote lifelong learning	collections from different demographic groups.		
opportunities for all 4.7 By 2030, ensure that all	Increases in numbers of needle in each tune of		
learners acquire the	Increases in numbers of people in each type of programme from different demographic groups.		
knowledge and skills needed	programme nom unerent demographic groups.		
to promote sustainable	Proportion of people involved in such programmes in		
development, including,	relation to overall audience size.		
among others, through			
education for sustainable	Evidence that learners have acquired knowledge and skills		
development and sustainable	to promote sustainable development.		
development and sustainable	נט אוטוני געזנמוומטוב עבירוטאווובוונ.		

lifestyles, human rights, gender equality, promotion of a culture of peace and non- violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.2 By 2030, increase	Proportion of energy that comes from renewable sources. Date to achieve net zero, and milestones towards that date.
substantially the share of renewable energy in the global energy mix	
SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.3 By 2030, double the global rate of improvement in energy efficiency	Reduction in energy use. Upgrade of old equipment to more efficient equipment. Uptake of renewable sources of energy.
SDG 12 Ensure sustainable consumption and production patterns 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment Extent to which global citizenship education and education for sustainable development (including climate
	change education) are mainstreamed in formal, informal and non-formal education programmes and activities drawing on and related to collections.
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climate- related hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.
SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on	Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change.

climate change mitigation, adaptation, impact reducti and early warning	ion	Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.			
		Plans in place to reduce negative contributions of collections-related functions, e.g. measuring greenhouse			ng greenhouse
SDG 13. Take urgent actio		emissions with	plans and target	s in place t	o reduce them.
combat climate change and impacts 13.B Promote mechanisms raising capacity for effective climate change-related planning and management least developed countries small island developing Stati including focusing on worm youth and local and marginalized communities	d its for ve t in and ates, ien,	 research, and/or partnerships) drawing on collections and collections-based institutions that build capacity for climate change planning and management in least developed countries and small island developing States. Number of targeted initiatives drawing on collections and 			collections and pacity for in least eloping States. collections and ilding capacity zed communities
1 2		3	4	5	6
7 8		9	10	11	12
<mark>13</mark> 14		15	16	17	