



DATA ANNEX

ENERGY ACCESS

ENERGY EFFICIENCY

RENEWABLE ENERGY

DATA ANNEX: ENERGY ACCESS

		ACCESS TO ELECTRICITY (% OF POPULATION)						ACCESS TO NON-SOLID FUEL (% OF POPULATION)					
		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
SA	Afghanistan	35	37	41	29	81	NRVA 2007/08	< 5	9	15	5	66	Other2007
DEV	Albania	100	100	100	100	100	DHS 2008	36	50	61	49	89	DHS2008
NA	Algeria	94	98	99	98	100	COMELEC 2007	86	> 95	> 95	> 95	> 95	MICS2006
Oceania	American Samoa	49	53	56	43	57	Estimate						
DEV	Andorra	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
SSA	Angola	28	31	35	6	55	DHS 2011	< 5	16	45	11	84	DHS2006
LAC	Antigua and Barbuda	81	85	88	74	100	Estimate	86	> 95	> 95	> 95	> 95	Other2007
LAC	Argentina	81	85	88	74	89	Estimate	83	94	> 95	> 95	> 95	Other2001
CCA	Armenia	94	98	100	100	100	DHS 2005	15	50	81	51	> 95	NatSur2008
LAC	Aruba	81	85	88	74	100	Estimate						
DEV	Australia	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Austria	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
CCA	Azerbaijan	93	96	100	99	100	DHS 2006	48	72	93	81	> 95	DHS2006
LAC	Bahamas	81	85	88	74	91	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
WA	Bahrain	87	91	94	90	95	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
SA	Bangladesh	22	32	55	43	88	HIES 2010	9	11	9	5	37	DHS2007
LAC	Barbados	81	85	88	74	100	Estimate	> 95	> 95	> 95	> 95	> 95	NatCen2000
DEV	Belarus	100	100	100	100	100	HBS 2009	81	92	> 95	94	> 95	MICS2005
DEV	Belgium	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
LAC	Belize	81	85	88	74	100	Estimate	71	81	88	82	> 95	NatCen2010
SSA	Benin	22	25	28	9	52	DHS 2006	< 5	6	9	5	14	DHS2006
DEV	Bermuda	100	100	100	100	100	Assumption						
SA	Bhutan	66	68	72	50	100	DHS 2007	22	42	60	45	> 95	MICS2010
LAC	Bolivia, Plurinational State of	74	77	80	55	93	DHS 2008	55	64	71	27	94	DHS2008
DEV	Bosnia and Herzegovina	94	99	100	98	100	HBS 2007	42	50	55	31	83	MICS2005
SSA	Botswana	37	40	43	43	43	BAIS III 2008	35	50	63	38	90	NatSur2007
LAC	Brazil	92	97	99	94	100	NatCen2009	81	89	94	64	> 95	WHS2003
SEA	Brunei Darussalam	66	69	73	64	75	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
DEV	Bulgaria	100	100	100	100	100	HIS 2007	77	87	93			Estimate

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		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
SSA	Burkina Faso	6	7	13	1	47	DHS 2010	< 5	< 5	8	5	23	NatSur2007
SSA	Burundi	0	4	5	1	41	DHS 2010	< 5	< 5	< 5	< 5	5	MICS2005
SEA	Cambodia	19	17	31	19	81	DHS 2010	< 5	6	11	5	45	DHS2010
SSA	Cameroon	29	46	49	14	82	NatCen2006	6	17	25	5	41	MICS2005
DEV	Canada	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
SSA	Cape Verde	58	59	67	44	81	DHS 2005	51	61	68	33	90	NatSur2007
LAC	Cayman Islands	81	85	88	74	88	Estimate						
SSA	Central African Republic	3	6	9	5	16	Estimate	< 5	< 5	< 5	< 5	5	MICS2006
SSA	Chad	0	2	4	0	15	DHS 2004	< 5	< 5	12	6	27	Other2005
DEV	Channel Islands	100	100	100	100	100	Assumption						
LAC	Chile	95	98	100	98	100	ENEMDU 2010	76	86	94	53	> 95	N atCen2002
EA	China	94	98	100	98	100	Electric Company 2010	36	47	54	19	70	NatCen2005
EA	China, Hong Kong SAR	100	100	100	100	100	Estimate						
EA	China, Macau SAR	86	90	93	90	93	Estimate						
LAC	Colombia	90	93	97	91	99	NatCen2010	74	81	86	49	> 95	DHS2010
SSA	Comoros	42	45	48	37	77	Estimate	11	21	29	15	58	Other2004
SSA	Congo	24	21	37	9	53	DHS 2009	< 5	14	23	5	33	DHS2009
SSA	Congo, Dem. Rep. of the	6	7	15	3	39	DHS 2007	< 5	< 5	7	5	14	DHS2007
LAC	Costa Rica	93	95	99	98	100	ENCOVI 2010	77	87	94	86	> 95	NatSur2009
SSA	Cote d'Ivoire	37	51	59	37	80	DHS 2005	13	19	22	5	35	MICS2005
DEV	Croatia	100	100	100	100	100	Assumption	73	84	92	82	> 95	WHS2003
LAC	Cuba	94	97	100	93	100	Estimate	93	94	91	77	94	Other2008
LAC	Curacao	81	85	88	74	88	Estimate						
DEV	Cyprus	96	100	100	100	100	Assumption	> 95	> 95	> 95			Assumption
DEV	Czech Republic	100	100	100	100	100	HBS 2009	82	94	> 95	> 95	> 95	WHS2003
DEV	Denmark	100	100	100	100	100	Assumption	> 95	> 95	> 95			Assumption
SSA	Djibouti	43	46	50	10	61	PRSP 2004	84	87	87	21	90	NatSur2006
LAC	Dominica	85	88	91	100	87	Estimate	58	80	> 95	> 95	> 95	NatCen2001



		ACCESS TO ELECTRICITY (% OF POPULATION)						ACCESS TO NON-SOLID FUEL (% OF POPULATION)					
		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
LAC	Dominican Republic	78	92	98	94	100	NatCen2010	63	80	93	85	> 95	DHS2007
SEA	East Timor	32	34	38	24	74	DHS 2010	< 5	8	8	< 5	21	DHS2009
LAC	Ecuador	90	93	97	93	100	NatCen2010	73	87	> 95	87	> 95	NatCen2006
NA	Egypt	96	98	100	99	100	DHS 2008	93	> 95	> 95	> 95	> 95	DHS2005
LAC	El Salvador	77	88	92	82	97	INE 2010	50	65	78	49	93	NatSur2007
SSA	Equatorial Guinea	22	26	29	14	52	Estimate	18	21	23			Estimate
SSA	Eritrea	23	32	33	9	79	Estimate	14	28	40	15	73	DHS2002
DEV	Estonia	100	100	100	100	100	Assumption	72	82	89	69	> 95	WHS2003
SSA	Ethiopia	10	13	23	5	85	DHS 2011	7	6	< 5	< 5	27	DHS2005
DEV	Faeroe Islands	100	100	100	100	100	Assumption						
Oceania	Fiji	49	53	56	43	68	Estimate	45	56	63			Other1996
DEV	Finland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	France	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
Oceania	French Polynesia	49	53	56	43	68	Estimate						
SSA	Gabon	73	74	82	35	89	CWIQ 2005	50	64	74	25	86	Other2006
SSA	Gambia	18	34	31	23	37	Estimate	< 5	< 5	9	5	12	MICS2005
CCA	Georgia	97	100	100	100	100	HBS 2009	45	51	54	15	88	MICS2005
DEV	Germany	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
SSA	Ghana	31	45	61	38	82	DHS 2008	< 5	9	16	5	28	DHS2008
DEV	Greece	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Greenland	100	100	100	100	100	Assumption						
LAC	Grenada	81	85	88	74	100	Estimate	69	89	100	100	100	NatCen2001
Oceania	Guam	49	53	56	43	57	Estimate						
LAC	Guatemala	76	79	82	68	96	NatCen2006	36	41	43	18	73	WHS2003
SSA	Guinea	14	16	20	3	53	DHS 2005	< 5	< 5	< 5	< 5	< 5	DHS2005
SSA	Guinea-Bissau	51	54	57	19	100	Estimate	< 5	< 5	< 5	< 5	< 5	MICS2006
LAC	Guyana	72	75	78	72	91	DHS 2009	74	85	93	91	> 95	DHS2009
LAC	Haiti	31	31	34	12	54	DHS 2006	< 5	6	9	5	16	DHS2005
LAC	Honduras	75	77	81	64	97	NatCen2010	32	42	49	14	81	DHS2005

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		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
DEV	Hungary	100	100	100	100	100	HBS 2007	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Iceland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
SA	India	51	62	75	67	93	NSSO 2009	13	29	42	14	77	NatSur2006
SEA	Indonesia	67	88	94	89	99	DHS12 2010	33	41	45	23	80	DHS2007
SA	Iran, Islamic Republic of	94	98	98	95	100	Ministry of Energy 2006	88	> 95	> 95	> 95	> 95	Natcen2006
WA	Iraq	92	94	98	94	100	IAU Iraq / UN Factsheet 2011	89	> 95	> 95	91	> 95	MICS2005
DEV	Ireland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Isle of Man	100	100	100	100	100	Assumption						
DEV	Israel	96	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Italy	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
LAC	Jamaica	70	87	92	84	99	Ministry of Energy, 2008;	62	77	89			NatCen2001
DEV	Japan	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
WA	Jordan	95	100	99	99	100	DHS 2009	88	> 95	> 95	> 95	> 95	DHS2009
CCA	Kazakhstan	94	97	100	98	100	HBS 2008	71	83	91	77	> 95	MICS2005
SSA	Kenya	11	15	23	8	71	DHS 2008	18	20	20	5	61	DHS2010
Oceania	Kiribati	49	53	56	43	73	Estimate	34	45	54			Estimate
EA	Korea, Dem. People's Rep. of	20	22	26	10	37	Fund for Peace 2008; IEA est	< 5	7	9	5	11	NatCen2008
EA	Korea, Republic of	86	90	93	90	94	Estimate	80	> 95	> 95	> 95	> 95	Other1998
DEV	Kosovo	100	100	100	100	100	HBS 2009						
WA	Kuwait	87	91	94	90	94	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
CCA	Kyrgyzstan	97	100	100	100	100	HBS 2008	49	59	66	47	90	MICS2005
SEA	Lao People's Dem. Rep.	52	46	66	52	94	LECS4 2008	< 5	5	< 5	< 5	11	NatSur2007
DEV	Latvia	100	100	100	100	100	Assumption	77	87	95	78	> 95	WHS2003
WA	Lebanon	93	95	100	99	100	Other	92	> 95	> 95	> 95	> 95	Other1996
SSA	Lesotho	6	5	17	7	43	DHS 2009	37	39	39	20	94	DHS2009
SSA	Liberia	0	1	4	1	7	DHS 2011	< 5	< 5	< 5	< 5	5	DHS2009



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		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
NA	Libya	97	100	100	99	100	Estimate	89	> 95	> 95	> 95	> 95	Estimate
DEV	Liechtenstein	100	100	100	100	100	Assumption						
DEV	Lithuania	100	100	100	100	100	HBS 2008	77	87	93			Assumption
DEV	Luxembourg	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Macedonia, Former Yugoslav Rep. of	93	95	99	98	100	HBS 2006	52	61	67	48	78	MICS2005
SSA	Madagascar	9	11	14	9	25	DHS 2011	< 5	< 5	< 5	< 5	5	NatCen2009
SSA	Malawi	3	5	9	4	37	DHS 2010	< 5	< 5	< 5	< 5	11	DHS2010
SEA	Malaysia	93	96	99	98	100	HIS/BA 2009	78	92	> 95	> 95	> 95	WHS2003
SA	Maldives	94	96	100	100	100	DHS 2009	36	65	92	91	> 95	DHS2009
SSA	Mali	12	17	17	3	42	DHS 2006	< 5	< 5	< 5	< 5	5	DHS2006
DEV	Malta	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
Oceania	Marshall Islands	49	53	56	43	61	Estimate	80	76	68	8	92	Other2007
SSA	Mauritania	12	15	18	2	42	EPCV 2005	20	32	42	21	66	MICS2007
SSA	Mauritius	97	99	100	100	100	Estimate	81	93	> 95	> 95	> 95	NatSur2004
LAC	Mexico	95	98	99	98	100	NatCen2010	75	82	86	61	> 95	NatCen2010
Oceania	Micronesia, Federated States of	49	53	56	43	100	Estimate	45	53	59			NatCen2005
DEV	Moldova, Republic of	92	95	99	98	99	DHS 2005	72	82	89	79	> 95	DHS2005
DEV	Monaco	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
EA	Mongolia	80	83	86	67	100	LSMS 2005	19	25	28	5	43	MICS2005
DEV	Montenegro	100	100	100	100	100	Assumption	56	65	72	46	85	MICS2005
NA	Morocco	49	71	99	97	100	DHS 2003	81	91	> 95	87	> 95	DHS2004
SSA	Mozambique	6	7	15	2	45	DHS 2009	< 5	< 5	5	5	10	MICS2008
SEA	Myanmar	43	47	49	28	92	IHLCA 2010	< 5	< 5	8	5	17	Other2004
SSA	Namibia	26	37	44	15	92	DHS 2006	26	37	45	14	83	DHS2006
SA	Nepal	70	73	76	72	100	DHS 2011	26	23	18	10	67	DHS2006
DEV	Netherlands	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
Oceania	New Caledonia	49	53	56	43	64	Estimate						
DEV	New Zealand	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
LAC	Nicaragua	72	73	74	43	96	ENAOH 3 2005	23	36	46	9	71	NatSur2006

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		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
SSA	Niger	6	7	9	2	46	DHS 2006	< 5	< 5	< 5	< 5	6	DHS2006
SSA	Nigeria	42	45	48	35	62	DHS 2010	26	28	26	10	54	DHS2008
DEV	Norway	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
WA	Oman	87	91	94	90	96	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
SA	Pakistan	60	80	91	88	98	PSLM 2010-11	12	26	36	11	71	NatSur2006
Oceania	Palau	49	53	56	43	58	Estimate	90	> 95	> 95			Other1997
LAC	Panama	81	85	88	74	93	Estimate	75	80	82	73	> 95	LSMS2008
Oceania	Papua New Guinea	8	11	15	8	63	LSMS 2006	5	17	27	11	72	LSMS1996
LAC	Paraguay	90	92	97	94	99	NatCen2010	46	50	51	20	68	NatSur2009
LAC	Peru	69	72	85	60	93	NatCen2010	38	52	64	25	92	NatSur2010
SEA	Philippines	65	71	83	73	94	DHS 2008	40	47	50	34	76	DHS2008
DEV	Poland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Portugal	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
LAC	Puerto Rico	81	85	88	74	88	Estimate						
WA	Qatar	87	91	94	90	94	Estimate	92	> 95	> 95	> 95	> 95	NatCen2010
DEV	Romania	100	100	100	100	100	HBS 2009	65	75	83	63	> 95	Other2002
DEV	Russian Federation	100	100	100	100	100	HBS 2009	91	> 95	> 95	92	> 95	MICS2005
SSA	Rwanda	2	6	11	4	40	EICV 3 2011	< 5	< 5	< 5	< 5	5	NatSur2007
LAC	Saint Lucia	81	85	88	74	100	Estimate	63	86	100	100	100	Estimate
Oceania	Samoa	80	89	100	90	100	Estimate	30	40	47	25	73	DHS2009
DEV	San Marino	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
SSA	Sao Tome and Principe	50	53	57	44	65	DHS 2008	9	20	29	15	42	DHS2008
WA	Saudi Arabia	87	91	94	90	95	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
SSA	Senegal	26	37	57	27	97	DHS 2011	19	35	49	17	86	NatSur2008
DEV	Serbia	100	100	100	100	100	Estimate	49	60	68	41	89	MICS2005
SSA	Seychelles	22	26	29	14	42	Estimate	80	93	> 95	> 95	> 95	Other2002
SSA	Sierra Leone	6	9	12	1	29	DHS 2008	7	5	< 5	< 5	5	DHS2008
SEA	Singapore	66	69	73	64	73	Estimate	> 95	> 95	> 95	> 95	> 95	Estimate
DEV	Slovak Republic	100	100	100	100	100	Assumption	81	93	> 95	> 95	> 95	WHS2003



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Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
DEV	Slovenia	100	100	100	100	100	Assumption	76	88	> 95	> 95	> 95	WHS2003
Oceania	Solomon Islands	13	16	19	10	57	Estimate	10	12	10	5	43	NatSur2007
SSA	Somalia	22	26	29	14	54	Estimate	< 5	< 5	< 5	< 5	5	MICS2005
SSA	South Africa	65	66	83	64	94	GHS 2011	61	75	85	63	94	NatSur2010
SSA	South Sudan	0	0	2	1	5	NatCen2010						
DEV	Spain	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	WHS2003
SA	Sri Lanka	78	81	85	83	96	HIES 2009	11	20	25	15	66	NatSur2009
LAC	St. Kitts and Nevis	81	85	88	74	100	Estimate	73	81	86			Estimate
LAC	St. Martin (French part)	81	85	88	74	100	Estimate						
LAC	St. Vincent and the Grenadines	67	70	73	29	100	Estimate	31	65	> 95	> 95	> 95	NatSur2007
SSA	Sudan	23	25	29	15	57	Other HH 2010	< 5	7	21	13	24	NatCen2008
LAC	Suriname	97	100	100	100	100	Estimate	70	81	88			MiCS2006
SSA	Swaziland	29	32	35	22	85	DHS 2006	22	35	45	25	87	DHS2006
DEV	Sweden	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	Switzerland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
WA	Syrian Arab Republic	85	87	93	78	100	Other HH 2010	84	> 95	> 95	> 95	> 95	MICS2005
CCA	Tajikistan	95	99	100	99	100	LSMS 2003	14	41	66	53	94	MICS2005
SSA	Tanzania, United Republic of	7	9	15	4	46	DHS 2010	< 5	< 5	6	5	16	DHS2010
SEA	Thailand	93	96	100	97	100	Household Energy Consumption Survey 2010	37	57	74	57	90	MICS2005
SSA	Togo	10	17	28	6	64	QUIBB 2006	< 5	< 5	6	5	7	NatSur2006
Oceania	Tonga	80	86	92	80	100	Estimate	28	44	57	53	92	NatCen2006
LAC	Trinidad and Tobago	93	95	99	98	100	Other HH 2009	81	93	> 95	> 95	> 95	MICS2006
NA	Tunisia	93	95	100	99	100	COMELEC 2007	82	94	> 95	> 95	> 95	MICS2006
WA	Turkey	100	100	100	100	100	HBS 2009	79	90	> 95	> 95	> 95	Other1999
CCA	Turkmenistan	95	100	100	100	100	HBS 2009	86	> 95	> 95	> 95	> 95	DHS2000
LAC	Turks and Caicos Islands	81	85	88	74	89	Estimate						
Oceania	Tuvalu	35	37	41	29	53	Estimate	33	58	81			Other2002

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		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
SSA	Uganda	7	9	15	5	67	DHS 2011	< 5	< 5	< 5	< 5	11	DHS2009
DEV	Ukraine	93	96	100	100	100	DHS 2007	79	90	> 95	89	> 95	DHS2007
WA	United Arab Emirates	87	91	94	90	95	Estimate	86	> 95	> 95	> 95	> 95	WHS2003
DEV	United Kingdom of Great Britain and Northern Ireland	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
DEV	United States of America	100	100	100	100	100	Assumption	> 95	> 95	> 95	> 95	> 95	Assumption
LAC	Uruguay	92	96	99	93	100	SEDLAC 2009	89	> 95	> 95	87	> 95	NatSur2006
CCA	Uzbekistan	97	100	100	100	100	Estimate	69	80	89	80	> 95	MICS2005
Oceania	Vanuatu	18	19	24	15	50	Estimate	17	18	16	6	49	MICS2007
LAC	Venezuela, Bolivarian Rep. of	99	100	100	100	100	SEDLAC 2010	85	> 95	> 95	> 95	> 95	NatCen2001
SEA	Vietnam	88	89	96	95	99	LSMS 2006	< 5	24	44	29	78	NatCen2009
LAC	Virgin Islands (U.S.)	81	85	88	74	89	Estimate						
WA	West Bank and Gaza	87	91	94	90	96	Estimate						
WA	Yemen	38	41	45	31	75	Estimate	52	61	67	49	> 95	MICS2006
SSA	Zambia	13	17	19	3	43	DHS 2007	5	13	17	5	39	DHS2007
SSA	Zimbabwe	28	34	37	13	75	DHS 2011	32	34	34	6	84	DHS2006

AGGREGATED BY INCOME LEVEL		ACCESS TO ELECTRICITY (% OF POPULATION)						ACCESS TO NON-SOLID FUEL (% OF POPULATION)					
		TOTAL			RURAL	URBAN		TOTAL			RURAL	URBAN	
Region	Country	1990	2000	2010	2010	2010	Latest available Source/year	1990	2000	2010	2010	2010	Latest available Source/year
	High income: non-OECD	88	90	92	89	93		71	74	81	77	86	
	High income: OECD	99	100	100	100	100		99	100	100	99	100	
	Low income	20	24	32	19	64		7	9	9	6	25	
	Lower middle income	58	68	77	69	91		25	37	46	21	75	
	Upper middle income	93	96	98	96	99		53	64	71	36	85	



AGGREGATED BY REGION		ACCESS TO ELECTRICITY (% OF POPULATION)						ACCESS TO NON-SOLID FUEL (% OF POPULATION)					
Region	Country	TOTAL			RURAL	URBAN	Latest available Source/year	TOTAL			RURAL	URBAN	Latest available Source/year
		1990	2000	2010	2010	2010		1990	2000	2010	2010	2010	
CCA	Caucasus and Central Asia	95	99	100	99	100		58	73	85	74	98	
DEV	Developed Countries	100	100	100	100	100		95	98	99	96	100	
EA	Eastern Asia	93	96	98	97	98		37	48	55	35	76	
LAC	Latin America and Caribbean	88	92	95	84	98		73	81	86	57	94	
NA	Northern Africa	85	92	99	99	100		88	96	100	99	100	
Oceania	Oceania	21	23	25	14	65		14	24	31	21	73	
SA	Southern Asia	52	63	75	67	94		16	30	40	23	78	
SEA	Southeastern Asia	71	81	88	80	97		29	40	48	27	77	
SSA	Sub-Saharan Africa	23	26	32	14	63		14	17	19	6	42	
WA	Western Asia	89	89	91	78	97		83	90	95	86	99	
	WORLD	76	79	83	70	95		47	54	59	35	84	

NOTE: THE SOURCE FIELD GIVES EITHER (A) THE NAME AND DATE OF THE HOUSEHOLD SURVEY FROM WHICH THE FIGURE IS TAKEN; OR (B) INDICATES THAT THE FIGURE IS AN ESTIMATE BASED ON THE STATISTICAL MODEL DESCRIBED IN ANNEX 2 OF CHAPTER 2; OR (C) IS BASED ON THE ASSUMPTION OF UNIVERSAL ACCESS IN COUNTRIES CLASSIFIED BY THE UNITED NATIONS AS DEVELOPED.

NOTE: DEVELOPED COUNTRIES (DEV) ARE CONSIDERED TO HAVE ACCESS RATES OF 100 PERCENT. CCA = CAUCASUS AND CENTRAL ASIA; EA = EASTERN ASIA; LAC = LATIN AMERICA AND CARIBBEAN; NA = NORTHERN AFRICA; SA = SOUTHERN ASIA; SEA = SOUTH-EASTERN ASIA; SSA = SUB-SAHARAN AFRICA; WA = WESTERN ASIA; BAI3=BOTSWANA AIDS IMPACT SURVEY III; COMELEC= MAGHREB ASSOCIATION OF THE ELECTRICITY SECTOR; CWIQ= CORE WELFARE INDICATORS QUESTIONNAIRE SURVEY; DHS = DEMOGRAPHIC AND HEALTH SURVEY; EICV=INTEGRATED HOUSEHOLD LIVING CONDITIONS SURVEY IN RWANDA; EPCV=PERMANENT LIVING CONDITIONS; GHS=GENERAL HOUSEHOLD SURVEY; HBS = HOUSEHOLD BUDGET SURVEY; IES = INTEGRATED EXPENDITURE SURVEY; HIES=HOUSEHOLD INCOME AND EXPENDITURE SURVEYS; HIS = INTEGRATED HOUSEHOLD SURVEY; HIS/BA= HOUSEHOLD INCOME AND BASIC AMENITIES SURVEY REPORT; LECS=LAO EXPENDITURE AND CONSUMPTION SURVEY; LSMS = LIVING STANDARD MEASUREMENT SURVEY; MICS=MULTIPLE INDICATORS CLUSTER SURVEY; NRVA=NATIONAL RISK AND VULNERABILITY ASSESSMENT; NSSO=NATIONAL SAMPLE SURVEY ORGANIZATION; QUIBB=QUESTIONNAIRE DES INDICATEURS DE BASE DU BIENETRE; WHS=WORLD HEALTH SURVEY.

DATA ANNEX: ENERGY EFFICIENCY

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOMPOSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Afghanistan	UN/WDI	-15.81	3.12	-6.83	11.8	2.9	8.93**	-2.04	—	—	2,993
Albania	IEA/WDI	-5.28	-3.49	-4.39	8.7	3.5	-2.88*	-3.84	84.0	94.2	1,227
Algeria	IEA/WDI	0.30	0.34	0.32	5.9	6.3	—	1.10	57.4	67.0	-909
Angola	IEA/WDI	1.68	-4.41	-1.41	7.7	5.8	-0.29	-1.23	77.0	79.9	184
Antigua and Barbuda	UN/WDI	-1.49	3.44	0.94	2.8	3.4	—	-2.83	—	—	6
Argentina	IEA/WDI	-1.63	-2.19	-1.91	7.9	5.4	-1.83	-1.43	65.3	72.0	11,171
Armenia	IEA/WDI	-9.13	-5.49	-7.33	30.9	6.8	-11.22	-7.97	84.0	73.1	3,756
Aruba	UN/WDI	—	—	—	—	—	—	—	—	—	—
Australia	IEA/WDI	-1.07	-1.56	-1.32	8.9	6.8	-1.27	-1.73	65.6	60.4	13,162
Austria	IEA/WDI	-1.25	0.16	-0.55	5.3	4.8	-0.36	-0.40	79.4	81.7	1,774
Azerbaijan	IEA/WDI	-2.93	-12.70	-7.95	32.2	6.1	-8.47*	-8.22	61.2	57.6	10,415
Bahamas	UN/WDI	-2.75	3.78	0.46	3.4	3.7	—	8.38	—	—	66
Bahrain	IEA/WDI	-2.38	-0.64	-1.51	20.6	15.2	—	-1.51	54.5	54.6	1,535
Bangladesh	IEA/WDI	-0.89	-0.54	-0.71	6.8	5.9	-1.36	-1.48	86.2	73.8	1,558
Barbados	UN/WDI	-1.10	2.36	0.61	3.6	4.1	0.59	-3.36	—	—	11
Belarus	IEA/WDI	-4.80	-5.80	-5.30	29.1	9.8	-4.63	-5.55	75.7	71.9	17,682
Belgium	IEA/WDI	-0.28	-0.98	-0.63	8.1	7.1	-0.84	-0.48	66.4	68.5	2,489
Belize	UN/WDI	0.49	-6.34	-2.98	9.7	5.3	—	-3.17	—	—	78
Benin	IEA/WDI	-2.87	2.22	-0.36	13.0	12.1	—	-0.28	86.4	87.8	282
Bermuda	UN/WDI	—	—	—	—	—	—	—	—	—	—
Bhutan	UN/WDI	-2.66	-5.83	-4.26	38.3	16.0	—	0.04	—	—	528
Bolivia, Plurinational State of	IEA/WDI	-0.11	3.00	1.43	5.3	7.1	—	1.19	82.6	78.7	-371
Bosnia and Herzegovina	IEA/WDI	-22.25	-0.12	-11.87	119.7	9.6	-0.80**	-13.37	69.7	49.6	37,653
Botswana	IEA/WDI	-1.79	-1.90	-1.84	5.5	3.8	-2.13	-1.14	71.4	82.4	426
Brazil	IEA/WDI	0.39	-0.06	0.17	5.5	5.7	0.42	0.15	79.5	79.3	-4,973
British Virgin Islands	UN/WDI	—	—	—	—	—	—	—	—	—	—
Brunei Darussalam	IEA/WDI	1.10	1.67	1.38	5.8	7.6	—	6.29	19.9	51.3	-257
Bulgaria	IEA/WDI	-2.99	-4.35	-3.67	18.2	8.6	-3.81	-4.55	61.0	50.8	7,280

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM-POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Burkina Faso	UN/WDI	-5.54	0.47	-2.58	21.2	12.6	-3.35*	-3.01	—	—	1,738
Burundi	UN/WDI	2.15	2.30	2.23	21.4	33.3	—	8.81	—	—	-652
Cambodia	IEA/WDI	-2.97	-3.75	-3.43	13.7	7.6	—	-4.20	0.0	84.8	-2,635
Cameroon	IEA/WDI	1.01	-2.07	-0.54	8.2	7.4	-2.30**	-1.30	95.4	81.9	-189
Canada	IEA/WDI	-1.00	-1.82	-1.41	11.7	8.8	-1.15	-1.31	76.3	77.8	23,448
Cape Verde	UN/WDI	1.62	0.16	0.88	3.7	4.4	—	-0.56	—	—	-16
Cayman Islands	UN/WDI	—	—	—	—	—	—	—	—	—	—
Central African Republic	UN/WDI	-4.09	-0.11	-2.12	18.3	11.9	—	-3.57	—	—	218
Chad	UN/WDI	0.89	-5.70	-2.46	12.9	7.9	—	5.90	—	—	488
Chile	IEA/WDI	-0.34	-1.73	-1.04	6.4	5.2	-1.10	-1.18	79.2	77.0	2,391
China	IEA/WDI	-7.07	-2.18	-4.65	30.5	11.8	-6.48	-5.64	76.0	61.6	1,319,738
China, Hong Kong SAR	IEA/WDI	0.52	-3.59	-1.56	2.7	2.0	—	-1.54	60.1	60.3	773
China, Macao SAR	UN/WDI	2.83	-8.56	-3.04	1.8	1.0	—	-4.13	—	—	71
Colombia	IEA/WDI	-1.97	-1.76	-1.86	5.0	3.4	-2.50	-2.43	78.1	69.5	5,746
Comoros	UN/WDI	2.45	2.50	2.47	2.9	4.7	—	7.69	—	—	-9
Congo	IEA/WDI	-0.92	1.38	0.22	3.8	4.0	—	-0.04	77.8	73.9	16
Congo, Dem. Rep. of the	IEA/WDI	9.66	-1.26	4.06	21.5	47.6	—	4.38	89.8	95.6	-7,220
Cook Islands	UN/WDI	—	—	—	—	—	—	—	—	—	—
Costa Rica	IEA/WDI	-1.31	0.29	-0.51	4.4	4.0	-1.55	-1.41	89.2	74.5	254
Cote d'Ivoire	IEA/WDI	2.18	2.47	2.32	7.6	12.0	1.90	1.33	66.6	54.8	-1,645
Croatia	IEA/WDI	0.10	-1.68	-0.80	5.9	5.0	-0.32	-0.23	72.1	80.7	138
Cuba	IEA/WDI	—	—	—	—	—	—	—	79.7	56.7	—
Cyprus	IEA/WDI	0.43	-1.44	-0.51	5.4	4.9	0.01	-0.04	64.2	70.5	-5
Czech Republic	IEA/WDI	-2.30	-2.57	-2.44	12.2	7.4	-3.05	-3.02	69.2	61.3	10,499
Denmark	IEA/WDI	-1.84	-0.24	-1.04	5.6	4.5	-0.83	-0.92	75.9	77.7	1,919
Djibouti	UN/WDI	2.81	-0.26	1.26	5.2	6.7	—	4.03	—	—	-42
Dominica	UN/WDI	3.96	-0.02	1.95	1.8	2.6	—	-0.18	—	—	-8
Dominican Republic	IEA/WDI	0.55	-4.40	-1.96	6.2	4.2	-5.53**	-1.80	65.8	68.0	462

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM-POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Ecuador	IEA/WDI	1.10	-0.40	0.35	4.5	4.9	-0.29	-0.18	87.5	78.8	-591
Egypt	IEA/WDI	-1.89	1.16	-0.38	7.4	6.8	-0.33*	-0.61	70.8	67.6	1,860
El Salvador	IEA/WDI	0.24	-1.31	-0.54	5.3	4.7	-3.27	-1.97	82.1	61.3	-8
Equatorial Guinea	UN/WDI	-11.08	6.53	-2.67	11.0	6.4	—	-11.87	—	—	808
Eritrea	IEA/WDI	-7.26	-1.45	-4.08	25.6	12.1	—	-4.30	0.0	69.2	-640
Estonia	IEA/WDI	-14.62	-1.77	-8.42	60.8	10.5	-9.26	-9.10	60.6	52.3	15,850
Ethiopia	IEA/WDI	-0.45	-2.25	-1.36	23.6	18.0	-2.68	-1.39	95.1	94.3	1,668
Falkland Islands (Malvinas)	UN/WDI	—	—	—	—	—	—	—	—	—	—
Fiji	UN/WDI	-1.04	-3.67	-2.36	7.9	4.9	—	-1.13	—	—	52
Finland	IEA/WDI	-0.76	-0.55	-0.66	10.3	9.0	-1.04	-0.99	78.4	73.3	1,178
France	IEA/WDI	-0.77	-0.70	-0.73	6.6	5.7	-0.74	-0.87	63.9	62.1	13,508
French Guiana	UN/WDI	—	—	—	—	—	—	—	—	—	—
French Polynesia	UN/WDI	—	—	—	—	—	—	—	—	—	—
Gabon	IEA/WDI	0.49	1.54	1.02	3.6	4.4	-0.13*	1.17	85.4	88.0	-136
Gambia	UN/WDI	0.65	-0.03	0.31	6.5	7.0	—	0.80	—	—	-8
Georgia	IEA/WDI	-4.73	-5.08	-4.91	17.6	6.4	-4.82	-4.20	72.3	83.9	1,552
Germany	IEA/WDI	-2.32	-1.20	-1.76	7.2	5.0	-1.81	-1.71	68.6	69.3	69,126
Ghana	IEA/WDI	-0.41	-3.74	-2.09	16.5	10.8	-3.17	-2.18	81.7	80.2	1,003
Gibraltar	IEA/WDI	—	—	—	—	—	—	—	78.1	83.8	—
Greece	IEA/WDI	0.02	-1.90	-0.94	5.1	4.2	—	-0.73	67.6	70.5	1,431
Grenada	UN/WDI	1.68	2.20	1.94	2.5	3.6	-0.29**	-1.48	—	—	-12
Guadeloupe	UN/WDI	—	—	—	—	—	—	—	—	—	—
Guatemala	IEA/WDI	0.65	0.46	0.55	6.2	6.9	-0.33	0.05	91.4	82.7	-94
Guinea	UN/WDI	-1.74	-4.20	-2.98	40.6	22.2	—	-3.31	—	—	1,645
Guinea-Bissau	UN/WDI	-0.68	1.37	0.34	8.6	9.2	—	1.73	—	—	1
Guyana	UN/WDI	-1.18	-2.10	-1.64	22.7	16.3	0.49	-2.45	—	—	137
Haiti	IEA/WDI	2.94	1.21	2.07	6.4	9.7	—	2.77	79.1	90.6	-556
Honduras	IEA/WDI	-0.95	0.25	-0.35	7.7	7.2	—	-1.22	98.1	82.2	106



COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOMPOSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Hungary	IEA/WDI	-1.64	-1.67	-1.65	8.8	6.3	-1.85	-1.74	71.8	70.6	3,906
Iceland	IEA/WDI	1.44	3.41	2.42	13.4	21.6	0.57	0.58	78.6	54.7	-450
India	IEA/WDI	-1.72	-2.98	-2.35	12.5	7.8	-4.09	-3.25	79.5	66.0	114,220
Indonesia	IEA/WDI	0.40	-2.15	-0.88	11.2	9.3	-1.73	-1.24	80.9	75.3	9,891
Iran, Islamic Rep. of	IEA/WDI	2.10	0.96	1.53	8.5	11.6	1.63	1.30	78.9	75.4	-22,350
Iraq	IEA/WDI	-10.76	4.80	-3.29	30.2	15.5	—	-4.81	75.7	55.2	23,829
Ireland	IEA/WDI	-1.16	-1.87	-1.52	5.1	3.7	-0.93	-1.25	74.0	78.1	2,155
Israel	IEA/WDI	-1.60	-0.14	-0.88	5.8	4.8	—	-0.57	60.7	64.6	1,963
Italy	IEA/WDI	-0.01	-0.45	-0.23	4.6	4.4	-0.14	-0.37	78.4	76.2	1,220
Jamaica	IEA/WDI	1.42	-3.05	-0.84	8.0	6.8	-0.62	-0.97	70.3	68.5	-90
Japan	IEA/WDI	0.55	-1.17	-0.31	5.6	5.3	-0.45	-0.54	68.3	65.3	-2,328
Jordan	IEA/WDI	-1.04	-2.16	-1.60	13.1	9.5	-2.27	-2.13	71.1	64.0	714
Kazakhstan	IEA/WDI	-3.51	-0.52	-2.02	26.5	17.6	-3.26*	-3.63	81.2	58.3	12,434
Kenya	IEA/WDI	0.66	-0.48	0.09	13.4	13.6	-0.82	-0.23	70.2	65.8	-424
Kiribati	UN/WDI	1.54	3.49	2.51	2.2	3.6	—	12.22	—	—	-1
Korea, Dem. People's Rep. of	IEA/WDI	—	—	—	—	—	—	—	82.3	86.6	—
Korea, Republic of	IEA/WDI	1.14	-1.22	-0.05	8.0	7.9	-1.36	-0.55	69.7	63.0	-5,171
Kuwait	IEA/WDI	5.46	0.57	2.99	6.2	11.2	—	2.56	43.4	39.9	-5,800
Kyrgyzstan	IEA/WDI	-7.04	-1.97	-4.54	28.3	11.2	—	-4.69	92.2	89.4	2,131
Lao People's Dem. Rep.	UN/WDI	-3.20	-5.12	-4.16	13.4	5.7	-4.95	-5.83	—	—	814
Latvia	IEA/WDI	-4.56	-1.85	-3.21	12.3	6.4	-2.87	-2.45	81.6	95.4	1,853
Lebanon	IEA/WDI	2.78	-2.26	0.23	4.8	5.1	—	0.46	58.2	61.0	-598
Lesotho	UN/WDI	1.28	-2.59	-0.67	12.2	10.6	—	-3.58	—	—	10
Liberia	UN/WDI	0.42	-2.40	-1.00	73.1	59.8	—	0.97	—	—	-125
Libya	IEA/WDI	3.10	-2.82	0.09	7.7	7.9	—	0.92	48.5	57.1	-2,712
Lithuania	IEA/WDI	-4.73	-4.46	-4.60	14.6	5.7	-4.75	-3.69	64.8	78.2	3,839
Luxembourg	IEA/WDI	-5.04	-0.28	-2.69	8.8	5.1	-1.86	-2.13	82.1	92.0	1,533
Macedonia, Former Yugoslav Rep. of	IEA/WDI	1.66	-1.62	0.01	6.4	6.4	0.65	0.16	60.9	62.9	-361

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOMPOSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Madagascar	UN/WDI	2.31	0.55	1.43	10.3	13.7	—	0.54	—	—	-721
Malawi	UN/WDI	-2.03	-2.43	-2.23	16.8	10.7	—	-2.96	—	—	536
Malaysia	IEA/WDI	0.96	-0.18	0.39	7.5	8.1	-1.12*	-0.02	64.7	59.6	-4,062
Maldives	UN/WDI	8.17	4.64	6.39	2.7	9.3	—	5.53	—	—	-132
Mali	UN/WDI	-1.25	-3.41	-2.34	10.6	6.6	—	-3.48	—	—	445
Malta	IEA/WDI	-5.30	0.64	-2.38	6.0	3.7	—	-1.82	38.4	43.0	262
Martinique	UN/WDI	—	—	—	—	—	—	—	—	—	—
Mauritania	UN/WDI	-7.19	-0.35	-3.83	20.3	9.3	-1.99*	-1.77	—	—	839
Mauritius	UN/WDI	-0.37	-0.79	-0.58	7.3	6.5	-2.40	-1.95	—	—	81
Mexico	IEA/WDI	-1.70	0.30	-0.71	6.1	5.3	-0.58	-1.08	68.7	63.7	13,954
Moldova, Republic of	IEA/WDI	-3.33	-4.52	-3.92	24.4	11.0	-4.13	-3.72	67.4	70.4	893
Mongolia	IEA/WDI	-3.46	-3.10	-3.28	26.8	13.7	-5.21	-4.34	87.0	69.7	1,020
Montenegro	IEA/WDI	n.a	-1.30	-1.30	5.7	5.4	—	-4.18	0.0	53.8	-193
Montserrat	UN/WDI	—	—	—	—	—	—	—	—	—	—
Morocco	IEA/WDI	1.56	-0.04	0.76	4.3	5.0	0.92	1.01	71.9	75.6	-1,076
Mozambique	IEA/WDI	-3.33	-3.88	-3.61	46.3	22.2	-3.51	-3.59	80.3	80.6	3,587
Myanmar	IEA/WDI	—	—	—	—	—	-5.60*	—	88.0	92.1	—
Namibia	IEA/WDI	1.08	0.40	0.74	4.3	5.0	-0.67*	0.55	98.3	94.5	-116
Nepal	IEA/WDI	-1.49	-1.52	-1.50	17.9	13.2	-2.49	-1.52	99.5	99.1	1,315
Netherlands	IEA/WDI	-2.01	-0.06	-1.04	7.0	5.7	-1.07	-0.85	74.8	77.6	10,284
Netherlands Antilles	IEA/WDI	—	—	—	—	—	—	—	42.9	48.4	—
New Caledonia	UN/WDI	—	—	—	—	—	—	—	—	—	—
New Zealand	IEA/WDI	-0.05	-1.65	-0.85	8.3	7.0	-1.18	-1.34	77.4	70.2	1,236
Nicaragua	IEA/WDI	-0.71	-1.44	-1.08	11.3	9.1	-1.21	-1.27	73.8	71.0	139
Niger	UN/WDI	1.57	-8.58	-3.64	16.6	7.9	0.21**	-3.65	—	—	394
Nigeria	IEA/WDI	-0.24	-3.92	-2.10	21.4	14.0	—	-1.92	89.1	92.4	11,078
Norway	IEA/WDI	-1.46	0.69	-0.39	6.4	5.9	-1.08	-1.53	83.0	65.9	3,339
Oman	IEA/WDI	2.01	4.53	3.26	6.4	12.3	—	2.53	44.5	38.6	-2,035



COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM-POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Pakistan	IEA/WDI	0.11	-1.62	-0.76	9.9	8.5	-1.09	-0.90	84.8	82.6	2,196
Palau	UN/WDI	2.14	4.98	3.55	5.9	11.8	—	4.58	—	—	-16
Panama	IEA/WDI	0.54	-2.31	-0.90	4.3	3.6	-2.52**	-1.05	82.5	80.0	88
Papua New Guinea	UN/WDI	-2.17	-2.66	-2.42	11.4	7.0	-2.01	-4.02	—	—	585
Paraguay	IEA/WDI	0.49	-1.72	-0.62	7.6	6.7	—	-0.91	95.3	89.9	0
Peru	IEA/WDI	-1.61	-0.89	-1.25	4.2	3.3	-1.76	-1.92	87.9	76.8	2,749
Philippines	IEA/WDI	0.50	-4.40	-1.98	7.6	5.1	-2.98	-2.77	69.2	58.8	3,660
Poland	IEA/WDI	-5.04	-2.49	-3.77	13.8	6.4	-3.17	-3.09	59.6	68.7	46,298
Portugal	IEA/WDI	0.96	-1.10	-0.07	4.3	4.3	0.57	-0.02	79.7	80.5	-1,178
Puerto Rico	UN/WDI	—	—	—	—	—	—	—	—	—	—
Qatar	IEA/WDI	3.79	-0.99	1.37	7.9	10.3	—	1.25	54.1	52.8	-3,106
Reunion	UN/WDI	—	—	—	—	—	—	—	—	—	—
Romania	IEA/WDI	-3.63	-4.46	-4.05	14.3	6.3	-4.04	-4.18	69.3	67.5	17,593
Russian Federation	IEA/WDI	0.46	-3.39	-1.49	19.7	14.6	-2.12	-2.04	71.1	63.5	34,769
Rwanda	UN/WDI	4.50	-6.04	-0.91	10.3	8.6	—	-1.18	—	—	-364
Saint Kitts and Nevis	UN/WDI	-1.66	5.82	2.01	3.5	5.1	—	-1.34	—	—	-9
Saint Lucia	UN/WDI	4.31	1.14	2.71	2.3	3.9	—	-3.61	—	—	-29
Saint Pierre and Miquelon	UN/WDI	—	—	—	—	—	—	—	—	—	—
Saint Vincent and the Grenadines	UN/WDI	3.09	0.40	1.74	2.0	2.9	—	-2.84	—	—	-12
Samoa	UN/WDI	-0.85	-1.70	-1.27	5.7	4.4	—	15.76	—	—	9
Sao Tome and Principe	UN/WDI	-9.71	-1.96	-5.92	55.2	16.3	—	-4.78	—	—	120
Saudi Arabia	IEA/WDI	2.63	1.90	2.27	8.0	12.6	1.93	2.45	60.1	62.2	-27,204
Senegal	IEA/WDI	0.48	-0.54	-0.03	6.6	6.6	0.05	0.16	64.1	66.6	-9
Serbia	IEA/WDI	2.17	-1.98	0.07	9.2	9.3	-0.15	-0.03	62.7	61.4	-2,344
Seychelles	UN/WDI	12.83	1.44	6.99	2.3	9.0	—	10.06	—	—	-139
Sierra Leone	UN/WDI	6.72	-5.61	0.37	24.8	26.7	—	0.03	—	—	-1,071
Singapore	IEA/WDI	-2.02	0.13	-0.95	6.3	5.2	-1.49	1.61	43.5	72.4	1,790
Slovakia	IEA/WDI	-2.01	-4.51	-3.27	13.3	6.8	-3.72	-3.95	73.9	64.1	5,047

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOMPOSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
Slovenia	IEA/WDI	-0.62	-1.48	-1.05	7.3	5.9	-2.05*	-0.57	64.7	71.3	365
Solomon Islands	UN/WDI	-1.82	-2.65	-2.24	4.7	3.0	—	-3.46	—	—	24
Somalia	UN/WDI	—	—	—	—	—	—	—	—	—	—
South Africa	IEA/WDI	0.03	-1.19	-0.58	13.6	12.1	-1.43	-1.69	56.1	44.9	229
Spain	IEA/WDI	0.27	-1.57	-0.65	4.9	4.3	0.01	-0.23	67.3	73.3	1,031
Sri Lanka	IEA/WDI	-0.96	-3.28	-2.13	6.7	4.3	-3.02*	-2.43	96.1	90.4	1,529
Sudan	IEA/WDI	-3.28	-4.12	-3.70	16.3	7.7	-2.26	-3.00	57.1	66.1	5,749
Suriname	UN/WDI	0.44	-2.74	-1.17	13.3	10.5	4.54	0.64	—	—	14
Swaziland	UN/WDI	7.43	-1.09	3.08	8.7	15.9	-4.12	1.75	—	—	-442
Sweden	IEA/WDI	-1.97	-1.33	-1.65	9.4	6.7	-1.78	-1.61	68.0	68.7	6,984
Switzerland	IEA/WDI	-0.78	-1.18	-0.98	4.5	3.7	-0.71	-0.75	76.7	80.3	1,413
Syrian Arab Republic	IEA/WDI	-0.86	-1.57	-1.21	12.0	9.4	-1.71	-1.94	72.7	62.7	2,033
Tajikistan	IEA/WDI	0.61	-7.04	-3.29	14.2	7.2	-3.14	-3.35	88.2	87.1	250
Thailand	IEA/WDI	1.09	0.62	0.85	7.8	9.3	0.08	1.08	68.8	72.0	-6,918
Timor-Leste	UN/WDI	n.a	-6.29	-6.29	7.9	4.7	—	-5.08	—	—	-61
Togo	IEA/WDI	3.02	0.33	1.66	15.0	20.8	—	1.26	67.0	61.9	-414
Tonga	UN/WDI	2.35	2.55	2.45	3.6	5.9	—	1.32	—	—	-11
Trinidad and Tobago	IEA/WDI	2.70	1.46	2.08	19.1	28.8	—	3.00	62.0	74.2	-2,185
Tunisia	IEA/WDI	-0.70	-1.57	-1.14	5.6	4.5	-1.41	-1.11	73.6	74.1	744
Turkey	IEA/WDI	0.13	-0.60	-0.23	5.0	4.8	-0.68	-0.38	76.0	73.8	2,360
Turkmenistan	IEA/WDI	0.64	-8.35	-3.96	53.5	23.8	-4.52	-4.93	70.2	57.3	5,128
Turks and Caicos Islands	UN/WDI	—	—	—	—	—	—	—	—	—	—
Uganda	UN/WDI	-3.64	-4.11	-3.87	40.1	18.2	-5.55**	-4.00	—	—	6,622
Ukraine	IEA/WDI	2.04	-4.34	-1.20	25.2	19.8	-0.94	-1.47	59.6	56.5	-3,410
United Arab Emirates	IEA/WDI	0.53	1.89	1.21	6.4	8.2	—	0.77	79.3	72.7	-3,685
United Kingdom of Great Britain and Northern Ireland	IEA/WDI	-2.06	-2.59	-2.32	6.7	4.2	-1.99	-2.24	66.9	68.1	47,052
United Republic of Tanzania	IEA/WDI	0.19	-2.64	-1.24	19.2	14.9	—	-1.40	89.8	86.8	837

COUNTRY	DATA SOURCE ^a	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM-POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010			1990–2010	1990	
United States of America	IEA/WDI	-1.65	-1.78	-1.71	10.1	7.1	-1.67	-1.70	67.5	67.7	368,527
Uruguay	IEA/WDI	-0.17	0.07	-0.05	4.2	4.1	0.21	-0.01	85.8	86.6	78
Uzbekistan	IEA/WDI	1.11	-7.85	-3.47	47.3	23.3	-3.91	-3.76	75.4	71.0	3,859
Vanuatu	UN/WDI	2.27	-0.51	0.87	2.3	2.7	—	7.96	—	—	-2
Venezuela, Bolivarian Rep. of	IEA/WDI	0.53	-0.04	0.25	9.7	10.2	0.78*	-0.12	63.2	58.7	-799
Viet Nam	IEA/WDI	-2.52	0.22	-1.16	12.5	9.9	-2.39	-1.61	89.9	81.9	7,495
Western Sahara	UN/WDI	—	—	—	—	—	—	—	—	—	—
Yemen	IEA/WDI	0.84	-0.05	0.39	4.9	5.3	0.47*	0.41	72.1	72.2	-470
Zambia	IEA/WDI	0.79	-2.80	-1.02	23.0	18.8	-1.67	-1.18	79.5	76.9	5
Zimbabwe	IEA/WDI	—	—	—	—	—	—	—	85.7	87.8	—

AGGREGATED BY REGION	DATA SOURCE	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM-POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010			1990–2010	1990	
Northern America	IEA/WDI	-1.59	-1.78	-1.68	10.2	7.3	-1.62	-1.66	68.4	68.7	391,975
Europe	IEA/WDI	-1.41	-1.10	-1.25	6.5	5.0	-1.12	-1.21	69.6	70.2	223,096
Eastern Europe	IEA/WDI	-1.26	-3.34	-2.30	18.7	11.8	-2.65	-2.65	68.2	63.4	140,558
Caucasian and Central Asia	IEA/WDI	-0.84	-5.59	-3.24	30.3	15.7	-3.55	-4.15	76.3	63.2	39,526
Western Asia	IEA/WDI	0.55	1.00	0.77	7.1	8.3	0.41	0.42	67.1	62.6	-10,469
Eastern Asia	IEA/WDI	-1.84	-0.35	-1.10	11.8	9.5	-2.11	-1.89	73.2	62.3	1,314,102
South Eastern Asia	IEA/WDI	0.17	-1.16	-0.50	9.1	8.2	-1.48	-0.66	74.2	71.8	9,718
Southern Asia	IEA/WDI	-0.86	-2.11	-1.49	11.1	8.2	-2.71	-2.16	80.3	70.1	101,857
Oceania	IEA/WDI	-0.95	-1.60	-1.27	8.8	6.8	-1.33	-1.73	68.5	62.4	15,038
Latin America and Caribbean	IEA/WDI	-0.52	-0.38	-0.45	6.1	5.6	-0.44	-0.56	73.6	72.1	27,714
Northern Africa	IEA/WDI	-0.18	0.07	-0.06	6.4	6.4	-0.46	0.20	64.0	67.4	-2,093
Sub-Saharan Africa	IEA/WDI	0.03	-2.19	-1.08	15.5	12.4	-1.36	-1.18	76.8	75.4	24,624
World	IEA/WDI	-1.61	-0.99	-1.30	10.0	7.7	-1.63	-1.53	71.7	68.0	2,275,646

AGGREGATED BY INCOME LEVEL	DATA SOURCE	RATE OF PRIMARY ENERGY INTENSITY IMPROVEMENT, CAGR (%)			LEVEL OF PRIMARY ENERGY INTENSITY, (MJ/\$2005 PPP)		DECOM- POSITION ANALYSIS, CAGR (%)	RATE OF FINAL ENERGY INTENSITY IMPROVEMENT, CAGR (%)	FINAL TO PRIMARY ENERGY RATIO		CUMULATIVE ENERGY SAVINGS (PJ)
		1990–2000	2000–2010	1990–2010	1990	2010	1990–2010	1990–2010	1990	2010	1990–2010
High income	IEA/WDI	-1.03	-1.25	-1.14	7.9	6.3	-0.61	-1.18	68.4	67.8	608,778
Upper middle income	IEA/WDI	-2.59	-1.13	-1.86	14.1	9.7	-2.62	-2.47	72.5	64.1	1,462,534
Lower middle income	IEA/WDI	-1.92	-2.70	-2.31	14.0	8.8	-3.15	-2.62	75.0	70.3	191,629
Low income	IEA/WDI	-0.79	-1.97	-1.38	16.2	12.2	-2.50	-1.40	89.0	88.6	12,706

SOURCE: IEA WORLD ENERGY STATISTICS AND BALANCE (2012); UN ENERGY STATISTICS (2012); WORLD DEVELOPMENT INDICATORS (2012).

^a THE IEA WORLD ENERGY STATISTICS AND BALANCES PROVIDES COUNTRY LEVEL DATA FOR 138 COUNTRIES THAT ACCOUNT FOR MORE THAN 99 PERCENT OF GLOBAL ENERGY CONSUMPTION. THE REST OF THE COUNTRIES ARE LUMPED TOGETHER IN THREE REGIONAL GROUPS AND REPORTED IN AN AGGREGATED MANNER. TO INCREASE THE COUNTRY-LEVEL COVERAGE, UN ENERGY STATISTICS ARE USED FOR THE 68 COUNTRIES NOT REPORTED SEPARATELY BY THE IEA. HOWEVER, A NUMBER OF DIFFERENCES BETWEEN THE TWO DATA SOURCES —NAMESLY, THE APPLICATION OF DIFFERENT METHODOLOGIES TO ESTIMATE THE USE OF PRIMARY SOLID BIOFUELS (BIOMASS) AND THE FACT THAT THE UN DATA WERE AVAILABLE ONLY THROUGH 2009, AT THE LATEST—CALLED FOR AN ADJUSTMENT OF THE UN DATA TO ALLOW FOR A FAIR COMPARISON OF ENERGY INTENSITY LEVELS AMONG COUNTRIES.

FOR SOME COUNTRIES FOR WHICH ENERGY DATA WERE AVAILABLE BUT GDP DATA WERE NOT, NO ENERGY INTENSITY FIGURE IS SHOWN. (ENERGY INTENSITY IS A DERIVATIVE OF BOTH ENERGY CONSUMPTION AND GDP.)

FIRST AVAILABLE DATA WERE USED FOR SOME COUNTRIES FOR WHICH 1990 WERE NOT AVAILABLE: CAMBODIA (1995), ERITREA (1992), MONTENEGRO (2005), AND TIMOR-LESTE (2002).

GDP DATA WERE ESTIMATED TO FILL GAPS IN TIME SERIES FOR THE FOLLOWING COUNTRIES: AFGHANISTAN, BARBADOS, BOSNIA AND HERZEGOVINA, DJIBOUTI, ESTONIA, HAITI, IRAQ, IRAN (ISLAMIC REPUBLIC OF), IRELAND, KUWAIT, LIBYA, MALDIVES, PALAU, QATAR, AND SAO TOME AND PRINCIPE.

* Country has less than 20 years of historical data available. Caution should be used when comparing CAGRs of decomposition analysis and energy intensity for country.

** Country has less than 10 years of historical data available. Caution should be used when comparing CAGRs of decomposition analysis and energy intensity for country.

DATA ANNEX: RENEWABLE ENERGY

COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Afghanistan	UN	42.4	56.5	19.3	12.2	—	7.0	—	—	—	—	—	76.5	87.2	72	
Albania	IEA	24.9	41.0	37.9	9.7	1.4	26.4	—	—	0.4	—	—	90.1	100.0	77	
Algeria	IEA	0.2	0.6	0.3	0.3	0.0	0.0	—	—	—	—	—	2.5	0.4	1,044	
Angola	IEA	72.3	75.5	54.9	51.3	1.3	2.4	—	—	—	—	—	43.1	67.3	451	
Antigua and Barbuda	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	4	
Argentina	IEA	8.9	11.0	9.0	0.6	2.0	5.3	1.1	0.0	—	—	—	27.8	28.6	2,052	
Armenia	IEA	1.9	6.2	9.0	—	0.1	8.9	—	0.0	—	—	—	33.5	39.5	74	
Aruba	UN	0.8	0.1	0.1	0.1	—	—	—	—	—	—	—	11.3	—	6	
Australia	IEA	8.0	8.4	7.3	—	4.6	1.3	0.4	0.5	0.4	—	0.1	18.7	8.9	2,940	
Austria	IEA	25.2	26.5	30.6	—	15.1	11.5	2.0	0.6	0.7	0.1	0.6	72.9	66.4	1,083	
Azerbaijan	IEA	0.3	1.6	3.1	—	—	3.1	—	0.0	—	—	—	15.5	18.4	263	
Bahamas	UN	—	—	0.9	—	0.9	—	—	—	—	—	—	—	—	29	
Bahrain	IEA	—	—	—	—	—	—	—	—	—	—	—	0.0	—	221	
Bangladesh	IEA	72.0	59.5	42.0	41.4	0.0	0.6	—	—	—	—	—	4.0	3.9	883	
Barbados	UN	18.9	13.6	9.8	0.7	9.1	—	—	—	—	—	—	—	—	13	
Belarus	IEA	0.8	4.9	7.0	2.9	3.9	0.0	0.2	0.0	—	—	0.0	0.3	0.4	719	
Belgium	IEA	1.3	1.5	5.3	—	3.2	0.1	1.2	0.3	0.2	0.0	0.4	16.9	6.9	1,425	
Belize	UN	37.0	24.1	35.6	—	20.1	15.5	—	—	—	—	—	48.9	92.3	9	
Benin	IEA	93.7	70.3	51.5	42.9	8.7	—	—	—	—	—	—	1.6	0.7	134	
Bermuda	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	9	
Bhutan	UN	96.5	95.2	91.7	81.3	0.4	10.0	—	—	—	—	—	98.9	100.0	54	
Bolivia, Plurinational State of	IEA	37.4	29.1	31.7	13.1	15.8	2.9	—	—	0.0	—	—	30.1	34.0	240	
Bosnia and Herzegovina	IEA	7.3	19.4	19.9	5.9	0.1	13.9	—	—	—	—	—	49.2	46.9	126	
Botswana	IEA	47.1	35.7	26.4	26.4	0.0	—	—	—	0.0	—	—	—	—	77	
Brazil	IEA	49.8	42.8	47.0	4.0	20.3	15.2	7.3	0.1	0.2	—	—	78.7	84.8	8,108	
British Virgin Islands	UN	100.0	1.6	1.1	1.1	—	—	—	—	—	—	—	—	—	1	
Brunei Darussalam	IEA	0.7	—	—	—	—	—	—	—	—	—	—	—	—	70	
Bulgaria	IEA	1.9	8.3	14.4	8.3	2.0	3.0	0.2	0.4	0.1	0.4	0.0	26.7	12.6	360	

COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Burkina Faso	UN	92.4	86.5	85.3	84.1	0.8	0.4	—	—	—	—	—	12.7	18.9	125	
Burundi	UN	82.6	93.2	96.8	95.7	0.4	0.7	—	—	—	—	—	98.1	98.4	84	
Cambodia	IEA	82.5	81.1	73.3	57.6	15.6	0.1	—	—	0.0	—	—	5.2	4.9	178	
Cameroon	IEA	81.6	84.5	78.6	66.7	6.7	5.2	—	—	—	—	—	72.2	73.2	243	
Canada	IEA	20.6	20.5	19.9	—	5.3	13.5	0.6	0.4	0.0	—	0.1	58.9	60.9	7,266	
Cape Verde	UN	—	1.7	1.5	1.0	—	—	—	0.5	—	—	—	3.1	1.7	3	
Cayman Islands	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	4	
Central African Republic	UN	93.9	86.0	81.0	47.1	31.2	2.6	—	—	—	—	—	56.8	99.9	17	
Chad	UN	95.1	97.9	92.3	91.1	1.2	—	—	—	—	—	—	—	—	82	
Chile	IEA	34.0	31.4	27.0	—	19.4	7.4	—	0.1	—	—	—	38.0	40.2	954	
China	IEA	32.3	27.7	18.8	13.5	0.0	3.6	0.1	0.2	0.6	0.3	0.5	25.1	17.5	59,740	
China, Hong Kong SAR	IEA	1.1	0.6	0.7	0.7	0.0	—	—	0.0	—	—	—	0.0	0.0	338	
China, Macao SAR	UN	0.7	0.2	0.2	—	0.2	—	—	—	—	—	—	—	—	17	
Colombia	IEA	38.3	28.0	28.6	8.2	6.6	13.7	0.1	0.0	—	—	—	67.1	72.1	894	
Comoros	UN	1.0	1.0	1.3	—	—	1.3	—	—	—	—	—	16.7	11.6	1	
Congo	IEA	66.7	72.7	50.6	47.5	0.0	3.1	—	—	—	—	—	80.4	76.9	45	
Congo, Dem. Rep. of the	IEA	92.0	97.2	96.2	74.1	19.7	2.4	—	—	—	—	—	98.6	99.6	950	
Cook Islands	UN	—	—	—	—	—	—	—	—	—	—	—	1.1	—	0	
Costa Rica	IEA	55.7	32.7	41.9	9.0	13.1	16.3	—	0.8	—	2.6	—	67.6	93.3	144	
Cote d'Ivoire	IEA	80.2	64.7	75.4	65.7	7.8	1.9	—	—	—	—	—	49.4	28.8	218	
Croatia	IEA	13.5	17.5	19.4	0.1	5.9	12.9	0.0	0.2	0.1	0.1	0.1	47.0	60.7	263	
Cuba	IEA	44.3	35.7	16.3	0.8	11.5	0.1	3.9	—	0.0	—	—	1.3	3.2	252	
Cyprus	IEA	0.5	3.1	6.4	0.5	0.9	—	0.9	0.1	3.7	0.0	0.2	5.8	1.3	69	
Czech Republic	IEA	2.7	4.9	9.5	—	7.0	0.7	1.0	0.1	0.2	—	0.6	10.4	6.9	1,019	
Denmark	IEA	7.3	10.9	21.4	—	14.4	0.0	0.2	3.8	0.1	0.0	2.9	37.0	32.1	615	
Djibouti	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	5	
Dominica	UN	23.6	11.3	9.1	4.2	—	4.9	—	—	—	—	—	80.4	25.0	1	
Dominican Republic	IEA	34.3	22.3	25.9	16.1	7.5	2.4	—	—	—	—	—	9.4	11.4	237	



COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Ecuador	IEA	23.2	19.6	12.4	4.0	1.8	6.6	—	0.0	—	—	—	44.7	51.6	372	
Egypt	IEA	8.6	8.2	6.1	1.8	1.9	2.2	—	0.3	—	—	—	12.4	9.9	1,792	
El Salvador	IEA	67.1	50.9	34.8	16.0	8.7	5.9	—	—	—	4.3	—	47.4	65.1	107	
Equatorial Guinea	UN	82.0	53.2	15.4	15.2	—	0.2	—	—	—	—	—	2.6	7.0	10	
Eritrea	IEA	88.3	71.2	77.2	73.8	3.3	—	—	—	0.0	—	—	1.3	0.6	21	
Estonia	IEA	3.3	19.9	25.1	—	24.5	0.0	—	0.4	—	—	0.1	6.6	8.1	120	
Ethiopia	IEA	95.6	94.3	94.5	92.7	0.7	1.0	—	—	—	0.0	—	90.1	99.4	1,310	
Falkland Islands (Malvinas)	UN	—	—	—	—	—	—	—	—	—	—	—	10.0	—	1	
Fiji	UN	16.4	13.0	15.5	2.6	—	12.8	—	—	—	—	—	51.0	57.4	12	
Finland	IEA	24.6	31.7	33.5	—	27.6	4.6	0.6	0.1	0.0	—	0.6	31.5	30.1	1,051	
France	IEA	10.4	9.3	12.3	—	6.7	2.8	1.6	0.4	0.1	0.1	0.6	21.5	13.8	6,314	
French Guiana	UN	12.5	8.0	34.4	7.9	2.1	24.3	—	—	—	—	—	90.1	90.1	9	
French Polynesia	UN	100.0	9.2	8.6	0.5	—	8.1	—	—	—	—	—	25.3	28.7	9	
Gabon	IEA	78.3	74.5	63.0	48.4	11.8	2.8	—	—	—	—	—	41.0	44.2	78	
Gambia	UN	58.9	50.3	41.0	41.0	—	—	—	—	—	—	—	—	—	10	
Georgia	IEA	12.8	47.3	39.9	12.6	1.9	23.5	—	—	—	1.9	0.0	62.8	92.5	103	
Germany	IEA	2.1	3.8	10.8	—	4.6	0.7	1.8	1.4	0.6	0.2	1.4	36.3	16.7	8,504	
Ghana	IEA	80.6	74.7	66.5	44.1	15.7	6.7	—	—	—	—	—	59.4	83.6	311	
Gibraltar	IEA	—	—	—	—	—	—	—	—	—	—	—	—	—	5	
Greece	IEA	7.8	7.5	11.1	—	4.7	3.2	0.7	1.2	1.1	0.1	0.1	26.7	18.3	769	
Grenada	UN	6.4	7.0	8.8	8.1	0.7	—	—	—	—	—	—	1.4	—	3	
Guadeloupe	UN	7.8	0.6	5.5	0.5	—	1.0	—	3.7	0.3	—	—	11.0	15.0	18	
Guatemala	IEA	75.0	62.7	67.0	59.7	4.1	3.0	—	—	—	0.2	—	43.5	66.9	354	
Guinea	UN	92.6	89.6	88.9	87.3	0.5	1.1	—	—	—	—	—	31.6	52.4	114	
Guinea-Bissau	UN	70.8	50.1	37.4	7.1	30.3	—	—	—	—	—	—	—	—	6	
Guyana	UN	28.1	41.5	46.7	26.6	20.1	—	—	—	—	—	—	4.0	—	31	
Haiti	IEA	81.1	76.0	70.5	60.2	10.0	0.3	—	—	—	—	—	20.7	30.2	87	
Honduras	IEA	70.1	55.1	49.8	41.7	3.0	5.1	—	—	—	—	—	36.3	46.1	157	

COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Hungary	IEA	3.9	5.2	9.1	—	6.7	0.1	1.1	0.3	0.0	0.6	0.3	9.8	8.1	674	
Iceland	IEA	62.2	66.1	76.7	—	—	38.5	—	—	—	38.2	0.0	95.3	100.0	108	
India	IEA	57.5	52.6	42.4	31.7	8.5	1.7	0.0	0.3	0.1	—	—	27.0	14.2	17,569	
Indonesia	IEA	58.7	44.7	37.4	31.6	4.4	0.9	0.0	—	—	0.5	—	17.8	16.0	6,177	
Iran, Islamic Republic of	IEA	1.3	0.4	0.7	0.0	0.2	0.5	—	0.0	—	—	0.0	13.8	4.2	5,983	
Iraq	IEA	1.6	0.3	1.6	—	0.1	1.5	—	—	—	—	—	24.9	9.5	855	
Ireland	IEA	2.3	2.0	5.2	—	1.7	0.4	0.8	2.0	0.1	—	0.3	20.2	13.1	460	
Israel	IEA	5.8	6.0	8.5	—	0.1	0.0	0.0	0.0	8.4	—	0.0	1.9	0.2	562	
Italy	IEA	3.8	5.1	10.0	—	3.2	3.7	1.5	0.7	0.2	0.5	0.3	24.7	25.8	5,033	
Jamaica	IEA	7.6	11.5	12.1	8.4	3.0	0.5	—	0.2	—	—	—	5.2	6.4	86	
Japan	IEA	4.4	3.9	4.2	—	1.3	2.2	—	0.1	0.2	0.1	0.1	10.6	10.1	11,915	
Jordan	IEA	2.8	2.1	3.0	0.1	0.0	0.1	—	0.0	2.8	—	0.0	0.6	0.5	188	
Kazakhstan	IEA	1.4	2.5	1.2	0.1	0.0	1.1	—	—	—	—	—	11.8	9.7	1,816	
Kenya	IEA	77.7	81.8	77.1	74.2	0.2	1.9	—	0.0	—	0.8	—	58.1	69.5	529	
Kiribati	UN	39.5	30.9	1.1	1.1	—	—	—	—	—	—	—	—	—	1	
Korea, Dem. People's Rep. of	IEA	7.7	9.8	12.0	—	6.6	5.4	—	—	—	—	—	52.6	61.9	672	
Korea, Republic of	IEA	1.6	0.7	1.3	—	0.2	0.2	0.3	0.1	0.1	0.0	0.4	3.4	1.2	4,982	
Kuwait	IEA	0.2	—	—	—	—	—	—	—	—	—	—	—	—	513	
Kyrgyzstan	IEA	7.9	37.3	22.5	—	0.1	22.3	—	—	—	—	—	79.9	91.0	106	
Lao People's Dem. Rep.	UN	96.7	91.3	90.1	80.6	—	9.0	—	—	0.5	—	—	97.4	92.3	66	
Latvia	IEA	17.6	35.8	35.3	17.7	9.7	6.9	0.6	0.1	—	—	0.2	72.8	54.9	173	
Lebanon	IEA	11.5	5.0	5.0	2.6	0.2	1.8	—	—	0.4	—	—	12.1	5.3	161	
Lesotho	UN	—	100.0	100.0	—	—	100.0	—	—	—	—	—	100.0	100.0	1	
Liberia	UN	95.4	90.5	92.5	92.5	—	—	—	—	—	—	—	—	—	74	
Libya	IEA	3.1	2.1	2.1	2.1	0.0	—	—	—	—	—	—	—	—	347	
Lithuania	IEA	3.1	17.6	22.6	12.7	6.2	1.7	1.0	0.7	—	0.0	0.2	8.2	19.2	189	
Luxembourg	IEA	1.7	6.8	3.7	—	1.2	0.5	1.1	0.2	0.1	—	0.5	7.8	8.3	162	
Macedonia, Former Yugoslav Rep. of	IEA	2.4	19.4	23.0	10.1	1.0	11.0	0.3	—	—	0.6	—	35.9	33.5	75	

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		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Madagascar	UN	86.4	78.5	82.8	53.5	27.6	1.8	—	—	0.0	—	—	34.4	58.2	114	
Malawi	UN	86.1	76.9	81.3	38.5	36.4	6.4	—	—	—	—	—	99.7	85.5	59	
Malaysia	IEA	14.0	8.6	6.2	4.6	0.3	1.3	0.0	—	—	—	0.0	8.3	6.2	1,557	
Maldives	UN	—	—	—	—	—	—	—	—	—	—	—	0.1	—	2	
Mali	UN	91.6	88.9	88.3	85.4	1.4	1.5	—	—	—	—	—	51.6	55.2	62	
Malta	IEA	—	—	0.3	—	—	—	—	—	0.3	—	—	0.3	—	15	
Martinique	UN	2.3	1.6	1.6	0.2	0.8	—	—	0.0	0.6	—	—	0.3	2.8	23	
Mauritania	UN	40.9	42.6	35.1	35.1	—	—	—	—	—	—	—	36.9	—	33	
Mauritius	UN	51.9	14.6	6.9	0.5	5.4	1.1	—	0.0	—	—	—	24.3	4.8	33	
Mexico	IEA	14.3	12.5	10.0	—	7.0	2.3	—	0.1	0.1	0.4	0.0	21.6	17.6	4,408	
Moldova, Republic of	IEA	0.8	4.6	4.3	—	4.0	0.3	—	—	—	—	—	11.6	2.2	75	
Mongolia	IEA	1.8	4.9	3.7	2.6	1.1	—	—	—	—	—	—	0.1	—	96	
Montenegro	IEA	n.a.	n.a.	48.9	5.6	0.4	42.9	—	—	—	—	—	75.8	66.0	18	
Montserrat	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	1	
Morocco	IEA	8.5	6.7	7.2	3.4	0.6	2.7	—	0.5	—	—	—	23.7	18.5	500	
Mozambique	IEA	93.1	92.5	89.6	71.2	7.8	10.7	—	—	—	—	—	89.7	99.9	344	
Myanmar	IEA	90.9	80.2	84.9	79.5	2.6	2.8	—	—	—	—	—	46.7	67.7	535	
Namibia	IEA	38.9	38.2	30.2	13.8	0.0	16.4	—	—	0.0	—	—	63.4	84.9	63	
Nepal	IEA	95.1	88.3	88.3	84.3	1.0	2.3	—	—	—	—	0.6	92.1	99.9	424	
Netherlands	IEA	1.2	1.5	3.6	—	1.5	0.0	0.5	0.6	0.1	0.0	0.8	14.5	9.5	2,064	
Netherlands Antilles	IEA	—	—	—	—	—	—	—	—	—	—	—	9.4	—	29	
New Caledonia	UN	40.2	15.9	8.0	0.2	0.0	7.0	—	0.7	—	—	—	23.2	23.1	19	
New Zealand	IEA	29.2	28.9	31.5	—	8.8	15.7	0.0	1.0	0.1	5.6	0.2	68.3	73.4	497	
Nicaragua	IEA	70.4	62.4	53.8	44.4	6.9	1.3	—	0.4	—	0.8	—	31.6	37.0	92	
Niger	UN	86.8	93.9	73.7	71.0	2.8	—	—	—	0.0	—	—	—	0.0	39	
Nigeria	IEA	88.4	86.9	88.8	79.6	8.8	0.4	—	—	—	—	—	32.9	24.4	4,373	
Norway	IEA	59.3	60.3	56.9	—	6.2	49.2	0.6	0.4	—	—	0.5	93.6	95.8	796	
Oman	IEA	—	—	—	—	—	—	—	—	—	—	—	—	—	265	

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		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Pakistan	IEA	57.5	51.1	46.0	37.9	4.7	3.4	—	—	—	—	—	29.6	33.7	2,777	
Palau	UN	—	—	6.8	—	—	6.8	—	—	—	—	—	n.a.	11.8	1	
Panama	IEA	43.7	34.4	24.1	11.3	2.9	10.0	—	—	—	—	—	47.4	57.0	126	
Papua New Guinea	UN	70.4	66.4	66.7	56.9	6.6	3.3	—	—	—	—	—	38.9	27.3	89	
Paraguay	IEA	78.5	70.4	64.1	23.1	25.9	13.8	1.2	—	—	—	—	99.9	100.0	179	
Peru	IEA	39.4	32.2	30.2	17.7	1.5	10.4	0.6	0.0	0.0	—	—	39.9	57.9	610	
Philippines	IEA	51.0	34.9	28.8	15.1	7.5	2.3	0.9	0.0	0.0	3.0	—	33.1	26.3	988	
Poland	IEA	2.5	6.9	9.5	—	7.5	0.3	1.4	0.2	0.0	0.0	0.1	6.5	6.9	2,718	
Portugal	IEA	27.1	20.0	27.9	—	13.5	7.5	1.9	4.3	0.4	0.2	0.2	45.5	52.8	722	
Puerto Rico	UN	1.8	0.7	0.7	—	—	0.7	—	—	—	—	—	2.8	0.7	67	
Qatar	IEA	—	—	—	—	—	—	—	—	—	—	—	—	—	397	
Reunion	UN	38.9	16.5	17.6	1.1	10.8	5.1	—	0.7	—	—	—	38.7	40.0	41	
Romania	IEA	3.4	16.5	24.0	16.2	1.9	5.3	0.5	0.1	0.0	0.1	0.0	30.9	33.1	914	
Russian Federation	IEA	3.8	3.5	3.3	0.3	0.4	2.6	—	0.0	—	0.0	—	20.5	16.1	16,133	
Rwanda	UN	84.4	89.4	87.9	86.8	0.5	0.6	—	—	0.0	—	—	47.6	40.0	51	
Saint Kitts and Nevis	UN	67.4	23.3	—	—	—	—	—	—	—	—	—	—	—	2	
Saint Lucia	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	3	
Saint Pierre and Miquelon	UN	—	—	1.7	—	—	—	—	1.7	—	—	—	2.3	3.5	0	
Saint Vincent and the Grenadines	UN	18.0	10.6	7.9	3.1	—	4.8	—	—	—	—	—	14.9	17.1	2	
Samoa	UN	100.0	49.6	44.5	32.5	3.1	8.9	—	—	—	—	—	—	45.1	2	
Sao Tome and Principe	UN	62.2	35.7	35.4	33.5	—	1.9	—	—	—	—	—	42.9	35.7	2	
Saudi Arabia	IEA	0.0	0.0	0.0	0.0	0.0	—	—	—	—	—	—	—	—	3,005	
Senegal	IEA	55.6	47.7	42.5	41.5	0.2	0.8	—	—	0.0	—	—	0.3	10.4	91	
Serbia	IEA	15.5	23.5	20.3	11.0	0.7	8.6	—	—	—	0.1	—	26.6	31.8	367	
Seychelles	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	8	
Sierra Leone	UN	95.6	90.6	71.2	52.2	18.9	0.1	—	—	—	—	—	52.9	31.8	58	
Singapore	IEA	0.2	0.3	0.4	—	—	—	—	—	—	—	0.4	0.2	1.3	532	
Slovakia	IEA	2.2	3.7	10.9	—	5.2	3.8	1.6	0.0	0.0	0.0	0.2	23.0	21.6	433	



COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Slovenia	IEA	12.4	15.9	18.8	—	11.2	5.8	0.9	—	0.1	0.5	0.3	35.5	29.2	207	
Solomon Islands	UN	68.4	87.0	75.3	75.3	—	—	—	—	—	—	—	—	—	4	
Somalia	UN	100.0	96.3	94.8	67.0	27.8	—	—	—	—	—	—	—	—	89	
South Africa	IEA	16.6	18.2	18.7	15.1	3.2	0.3	—	0.0	0.1	—	—	2.0	1.0	2,405	
Spain	IEA	10.5	8.0	14.8	—	4.7	3.6	1.7	3.8	0.8	0.0	0.2	38.8	32.5	3,628	
Sri Lanka	IEA	78.1	64.2	62.0	36.9	20.4	4.7	—	0.0	0.0	—	—	52.0	52.5	370	
Sudan	IEA	73.3	81.6	66.6	43.3	20.8	2.5	—	—	—	—	—	69.3	49.0	437	
Suriname	UN	36.0	17.1	18.3	6.4	0.6	11.2	—	—	—	—	—	46.1	53.9	25	
Swaziland	UN	84.3	46.8	35.7	24.6	6.4	4.7	—	—	—	—	—	40.3	47.3	35	
Sweden	IEA	34.1	40.9	47.4	—	27.3	15.4	1.7	0.8	0.0	—	2.1	62.1	55.3	1,368	
Switzerland	IEA	16.9	18.5	21.2	—	4.4	13.7	0.0	0.0	0.2	1.3	1.6	68.9	56.7	858	
Syrian Arab Republic	IEA	2.4	1.9	1.4	—	0.0	1.3	—	—	—	—	—	10.8	5.6	505	
Tajikistan	IEA	29.6	62.4	57.3	—	—	57.3	—	—	—	—	—	91.2	96.6	84	
Tanzania, United Republic of	IEA	94.8	94.3	90.7	70.6	19.0	1.1	—	—	—	—	—	66.8	58.0	729	
Thailand	IEA	33.6	22.0	22.8	10.2	10.9	0.7	1.0	—	0.0	0.0	0.0	8.9	5.6	2,780	
Timor-Leste	UN	n.a.	n.a.	43.1	43.1	—	—	—	—	—	—	—	—	—	3	
Togo	IEA	78.7	77.1	76.1	64.3	9.2	2.6	—	—	—	—	—	78.8	76.2	69	
Tonga	UN	—	0.4	2.0	2.0	—	—	—	—	—	—	—	—	—	2	
Trinidad and Tobago	IEA	1.2	0.5	0.2	0.2	0.0	—	—	—	—	—	—	0.3	—	232	
Tunisia	IEA	14.5	14.2	14.6	13.9	0.4	0.1	—	0.1	—	—	—	3.2	1.2	291	
Turkey	IEA	24.6	17.3	14.2	—	6.3	5.1	0.0	0.3	0.4	2.0	0.0	35.1	26.4	2,948	
Turkmenistan	IEA	0.3	0.0	0.0	—	—	0.0	—	—	—	—	—	0.0	0.0	511	
Turks and Caicos Islands	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	1	
Uganda	UN	96.1	94.6	88.8	85.5	2.6	0.7	—	—	—	—	—	68.5	58.6	390	
Ukraine	IEA	0.7	1.3	2.9	1.4	0.4	1.2	—	0.0	—	—	—	10.1	7.2	2,856	
United Arab Emirates	IEA	—	0.1	0.1	—	0.1	—	—	—	—	—	—	0.0	—	1,799	
United Kingdom of Great Britain and Northern Ireland	IEA	0.7	1.0	3.2	—	0.9	0.2	0.9	0.6	0.1	0.0	0.6	10.0	6.8	5,435	

COUNTRY	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
United States of America	IEA	4.2	5.4	7.6	—	3.2	1.4	1.9	0.5	0.1	0.1	0.3	12.9	10.1	57,173	
Uruguay	IEA	44.8	38.8	52.3	8.3	26.3	17.7	—	0.1	—	—	—	60.2	89.0	148	
Uzbekistan	IEA	1.3	1.2	2.6	—	0.0	2.6	—	—	—	—	—	14.9	21.0	1,226	
Vanuatu	UN	100.0	68.9	41.6	39.7	—	1.1	—	0.8	—	—	—	10.7	19.0	2	
Venezuela, Bolivarian Rep. of	IEA	11.8	14.1	12.5	1.1	1.0	10.5	—	—	—	—	—	61.5	64.9	1,853	
Viet Nam	IEA	76.1	58.0	34.8	24.5	5.6	4.7	—	—	—	—	—	36.4	29.1	1,924	
Western Sahara	UN	—	—	—	—	—	—	—	—	—	—	—	—	—	2	
Yemen	IEA	2.1	1.2	1.0	—	1.0	—	—	—	—	—	—	—	—	211	
Zambia	IEA	82.9	89.9	90.7	68.0	12.0	10.8	—	—	—	—	—	99.6	99.7	260	
Zimbabwe	IEA	64.1	70.2	80.8	69.2	5.2	6.4	—	—	—	—	—	33.4	50.2	352	

AGGREGATED BY REGION	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Traditional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo-thermal	Other	Electricity capacity	Electricity generation		
Northern America	IEA	6.0	7.1	9.0	—	3.4	2.8	1.7	0.5	0.1	0.1	0.3	18.2	16.3	64,439	
Europe	IEA	8.1	9.4	14.1	0.3	6.0	4.1	1.3	1.1	0.3	0.3	0.8	33.6	26.0	42,078	
Eastern Europe	IEA	3.0	4.2	5.4	1.1	1.8	2.1	0.3	0.0	0.0	0.0	0.0	17.5	13.8	25,902	
Caucasian and Central Asia	IEA	3.1	5.2	4.4	0.4	0.1	3.9	—	0.0	—	0.0	0.0	28.6	28.2	4,184	
Western Asia	IEA	8.2	5.8	4.3	0.0	1.6	1.5	0.0	0.1	0.6	0.5	0.0	11.4	7.4	11,697	
Eastern Asia	IEA	22.2	19.1	15.3	10.4	0.3	3.2	0.1	0.2	0.5	0.2	0.4	20.8	14.8	77,743	
South Eastern Asia	IEA	52.2	37.9	31.1	23.4	5.5	1.5	0.3	0.0	0.0	0.4	0.0	15.9	14.1	14,741	
Southern Asia	IEA	50.9	43.4	34.8	26.7	6.1	1.6	0.0	0.2	0.0	—	0.0	24.4	14.0	28,007	
Oceania	IEA	15.0	15.6	15.1	4.3	4.8	4.0	0.3	0.5	0.3	0.7	0.1	24.2	22.2	3,867	
Latin America and Caribbean	IEA	32.3	28.2	29.0	5.1	11.5	9.3	2.9	0.1	0.1	0.1	0.0	52.5	56.5	22,000	
Northern Africa	IEA	6.5	6.2	5.0	2.5	1.0	1.4	—	0.2	—	—	—	9.6	7.2	3,974	
Sub-Saharan Africa	IEA	72.5	74.6	75.4	65.3	8.5	1.6	—	0.0	0.0	0.0	—	26.0	22.7	16,368	
World	IEA	16.6	17.4	18.0	9.6	3.7	3.1	0.8	0.3	0.2	0.2	0.3	23.9	19.4	329,834	



AGGREGATED BY INCOME LEVEL	DATA SOURCE	SHARE (%) OF RE IN TFEC			SHARE (%) IN TFEC IN 2010									RE SHARE (%) IN 2010 OF:		TOTAL FINAL ENERGY CONSUMPTION (PJ) IN 2010
		1990	2000	2010	Tradi- tional biomass	Modern biomass	Hydro	Liquid biofuels	Wind	Solar	Geo- thermal	Other	Electricity capacity	Electricity generation		
High income	IEA	6.2	7.0	9.3	0.0	3.9	2.8	1.3	0.6	0.2	0.2	0.4	20.7	16.6	138,623	
Upper middle income	IEA	18.8	19.6	16.7	8.4	2.6	4.1	0.6	0.1	0.3	0.2	0.2	27.0	22.1	120,299	
Lower middle income	IEA	45.1	47.6	43.2	34.2	6.7	2.0	0.0	0.1	0.0	0.1	0.0	26.5	20.7	48,666	
Low income	IEA	61.9	73.7	74.2	63.9	6.7	3.4	—	0.0	0.0	0.1	0.0	56.3	59.1	7,410	

SOURCES: IEA WORLD ENERGY STATISTICS AND BALANCES (2012), UN ENERGY STATISTICS.

NOTE: OWING TO UNAVAILABILITY OF DATA FOR 1990, THE FIRST AVAILABLE DATA WERE USED FOR THE FOLLOWING COUNTRIES: CAMBODIA (1995), ERITREA (1992), KOSOVO (2000), MONTENEGRO (2005), AND NAMIBIA (1991). THE LATEST AVAILABLE UN DATA ARE FOR 2009. WORLD IS GREATER THAN THE SUM OF COUNTRIES BECAUSE WORLD INCLUDES MARINE AND AVIATION BUNKERS.

— = DATA NOT AVAILABLE.

The report's framework for data collection and analysis will enable us to monitor progress on the SE4ALL objectives from now to 2030. It is methodologically sound and credible. It produces findings that are conclusive and actionable. In many respects, what you measure determines what you get. That is why it is critical to get measurement right and to collect the right data, which is what this report has done. It has charted a map for our achievement of sustainable energy for all and a way to track progress. Let the journey begin!

—Kandeh Yumkella

Secretary General's Special Representative for Sustainable Energy for All



The SE4ALL Global Tracking Framework full report, overview paper, executive summary and associated datasets can be downloaded from the following website:

www.worldbank.org/se4all

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