

FACTORES DE CONVERSIÓN DE REFERENCIA USADOS POR LOS PAÍSES MIEMBROS DE OLADE (AÑO 2020)

Unidades Originales	kbbl	Mm ³	kt	GWh	GWh	kt	kt	GWh	kbbl	kbbl	kbbl	kbbl	kbbl	kt	kt	kbbl
A: bep x 10 ³	Petróleo	Gas natural	Carbón mineral	Hidroenergía	Geotermia	Nuclear	Leña	Electricidad	GLP	Gasolina	Kerosene/Jet	Diésel oil	Fuel oil	Coque	Carbón vegetal	Alcohol
Argentina	1.0196	6.2127	5.1881	0.6197		110.1888	1.4916	0.6197	0.7010	0.8934	0.9583	1.0015	1.0304	4.8998	5.0440	0.9096
Barbados	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Belice	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Bolivia	1.0015	5.9806	5.0439	0.6196			2.3417	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Brasil	1.0208	6.1969	3.4659	0.6197		532.5556	2.2338	0.6197	0.6999	0.9022	0.8212	0.8473	0.9561	4.9719	4.6548	0.6424
Chile	1.0551	6.6721	5.0440	0.6197			2.4002	0.6197	0.7624	0.9366	1.0300	1.0300	1.0300	5.0000		
Colombia	1.0476	6.1359	4.9498	0.6196			2.9246	0.6196	0.6981	0.9175	0.8109	0.9760	0.9398	3.4593	4.6829	0.5826
Costa Rica	0.9940		5.2630	0.6200	0.6200		3.0999	0.6200	0.6992	0.8938	0.9438	0.9937	1.0660	4.9392	4.6861	
Cuba	1.0015	6.3604	5.7645	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Ecuador	1.0015	5.9806		0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304			
El Salvador				0.6196	0.6196		2.5316	0.6196	0.7009	0.8831	0.9488	0.9916	1.0717	4.8998	4.6837	
Grenada		5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Guatemala	0.9935		5.0469	0.6200	0.6200		2.5955	0.6200	0.6705	0.8918	0.9459	0.9935	1.0691	4.9027		
Guyana	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Haití	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Honduras			5.0439	0.6196			2.5940	0.6196	0.6701	0.8711	0.9583	1.0087	1.0462	4.9000	4.9718	
Jamaica	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
México*	1.0555	7.3428	5.0520	0.6196	0.6196	566.0843	2.4948	0.6196	0.7152	0.9074	0.9906	1.0316	1.1155	5.1551		
Nicaragua	1.0059			0.6196	0.6197		2.3086	0.6197	0.6975	0.8906	0.9540	0.9857	1.0679	5.0009	2.7864	
Panamá	1.0015	5.9805	5.2690	0.6196			2.6940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.9100	4.8926	
Paraguay			5.0359	0.6197			2.5940	0.6196	0.6899	0.8901	0.9450	0.9921	1.0701	5.5977	4.9718	0.5957
Perú	0.9973	6.9749	5.0439	0.6197			2.5940	0.6197	0.6845	0.8791	0.9584	0.9944	1.0593	4.6115	4.7016	
República Dominicana	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8999	4.9724	
Suriname	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Trinidad & Tobago	1.0015	5.9806	5.0439	0.6196			2.5940	0.6196	0.6701	0.8934	0.9583	1.0015	1.0304	4.8998	4.9718	
Uruguay**	0.9688	5.9807	5.0440	0.6197			1.9455	0.6728	0.6730	0.9055	0.9510	0.9706	1.0770	4.8998	5.4042	0.5804
Venezuela	1.0391	7.3453	5.4029	0.6072			2.5219	0.6072	0.7361	0.9990	1.0850	1.1408	1.2058	5.0621	5.6252	

(*) El dato de gas natural corresponde al ponderado de producción.

(**) El dato de coque corresponde a coque de carbón.

IMPORTACIÓN CARBÓN MINERAL

Argentina	10 ³ ton =	5.1881	10 ³ bep
Brasil	10 ³ ton =	3.4573	10 ³ bep
Perú	10 ³ ton =	5.2601	10 ³ bep
	10 ⁶ m ³	Gas de Refinería =	7.9261 10 ³ bep
	10 ⁶ m ³	Gas de Coquería =	3.0263 10 ³ bep
Otros	10 ⁶ m ³	Gas de Alto Horno =	0.6485 10 ³ bep
	10 ⁶ m ³	Gas de Ciudad =	2.8820 10 ³ bep
	10 ⁶ m ³	Biogás =	3.9630 10 ³ bep
	10 ⁶ m ³	Bagazo =	1.3114 10 ³ bep

TABLA DE CONVERSIONES PARA UNIDADES ENERGÉTICAS

	bep	tep	tec	Tcal	TJ	10 ³ BTU	MWh	kg GLP	m ³ Gas nat.	pc Gas nat.
bep	1	0.13878	0.1982593	0.00139	0.00581	5,524.86	1.61394	131.0616	167.2073	5,917.1598
tep	7.205649	1	1.4285868	0.01	0.04184	39,810.22	11.62952	944.3839	1,204.8371	42,636.9763
tec	5.04390	0.6999925	1	0.007	0.029288	27,866.85	8.14057	661.0616	843.3769	29,845.5621
Tcal	720.56490	100	142.85868	1	4.184	3,981,022	1162.9520	94,438.388	120,483.714	4,263,697.6
TJ	172.21914	23.900574	34.144044	0.2390057	1	951,487	277.95214	22,571.316	28,796.2988	1,019,048.19
10³ BTU	0.00018	2.51E-05	3.59E-05	2.51E-07	1.05E-06	1	0.00029	0.02372	0.030265	1.07101
MWh	0.61960	0.08599	0.1228	0.00086	0.0036	3,423.2	1	81.20577	103.6016	3,666.2722
kg GLP	0.00763	0.00106	0.001513	1.06E-05	4.43E-05	42,154.696	0.0123144	1	1.2758	45.1479
m³ Gas nat.	0.00598	0.00083	0.001186	8.30E-06	3.47E-05	33,041.989	0.0096524	0.783827	1	35.3882
pc Gas nat.	0.00017	2.35E-05	3.35E-05	2.35E-07	9.81E-07	0.9337017	0.0002728	0.0221494	0.02825803	1

1bbl GLP = 0.6701 bep

1bbl GLP = 0.15898 m³ = 5.6143 pc

1m³ GLP = 552.4 kg

1 pc = 0.028317 m³