

PARTICIPATION IN IEA TECHNOLOGY COLLABORATION PROGRAMMES (TCPs)

05 April 2018

Selected recent developments

The Ministry of Energy and Mining of Argentina became a Contracting Party to the **TCP on Gas and Oil (GOTCP)** on 21 March 2018

The Research Institute for Solar Energy and New Energies (IRESEN) of Morocco became a Contracting Party to the **TCP on Photovoltaic Power Systems (PVPS TCP)** on 6 March 2018

The Ministry of Economic Affairs and Communication of Estonia became a Contracting Party to the **TCP on Bioenergy** on 26 February 2018.

Mexico officially became the 30th member country of the IEA on 17 February 2018, and its first member in Latin America. Mexico joined its first TCP in 1997 and currently participates in 10 TCPs.

The University of Zagreb, Croatia became a Contracting Party to the **TCP on Advanced Fuel Cells (AFC TCP)** on 25 January 2018.

Natural Resources Canada became a Contracting Party to the **TCP on Gas and Oil (GOTCP)** on 17 January 2018.

The Ministry of Economic Affairs and Employment of Finland became a Contracting Party to the **TCP on Clean Energy Education and Empowerment (C3E TCP)** on 22 December 2017.

The Australian Nuclear Science and Technology Organisation (ANSTO) became a Contracting Party to the **TCP on Plasma Wall Interaction (PWI TCP)** on 7 November 2017.

FINEP of Brazil became a Contracting Party to the **TCP on Gas and Oil (GOTCP)** on 24 October 2017.

ECOPETROL of Colombia became a Contracting Party to the **TCP on Enhanced Oil Recover (EOR TCP)** on 10 October 2017. This is a first-time participation by Colombia in a Technology Collaboration Programme.

CEREMA of France became a Contracting Party to the **TCP on District Heating and Cooling (DHC TCP)** on 3 Oct

VTT Technical Research Centre of Finland became a Contracting Party to the TCP on Buildings and Communities (EBC TCP) on 25 August 2017.

Centro Nacional del Hidrogeno (CNH2) of Spain became a Sponsor to the **TCP on Advanced Fuel Cells (AFC TCP)** on 10 August 2017.

J-Power of Japan became a Sponsor to the **TCP on Greenhouse Gas R&D (GHG TCP)** on 2 August 2017.

King Abdullah Petroleum Studies and Research Centre (KAPSARC) of Saudi Arabia became a Sponsor to the **TCP on Hybrid and Electric Vehicles (HEV TCP)** on 2 August 2017.

Southern Company Services, Inc. of the United States became a Sponsor to the **TCP on Greenhouse Gas R&D (GHG TCP)** on 1 August 2017

The new **Technology Collaboration Programme on Clean Energy Education and Empowerment (C3E TCP)**, was announced at the 8th Clean Energy Ministerial in Beijing and it was formally established on 12 June 2017.

Natural Resources Canada became a Contracting Party to the **C3E TCP** on 1 June 2017.

The **Swedish Ministry of the Environment and Energy** became a Contracting Party to the **C3E TCP** on 12 June 2017.

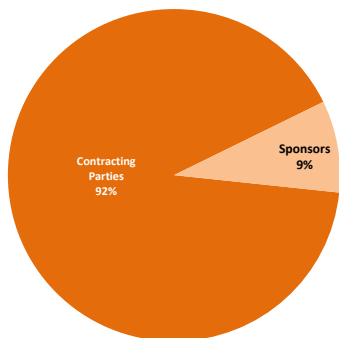
The **Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)** became a Contracting Party to the **C3E TCP** on 7 July 2017.

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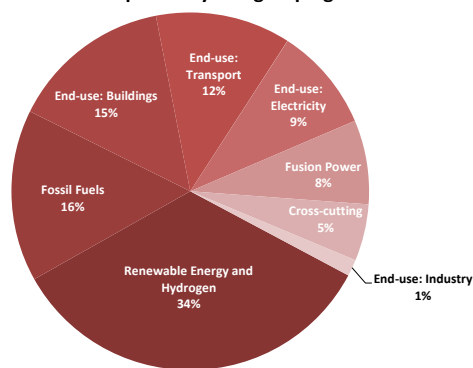
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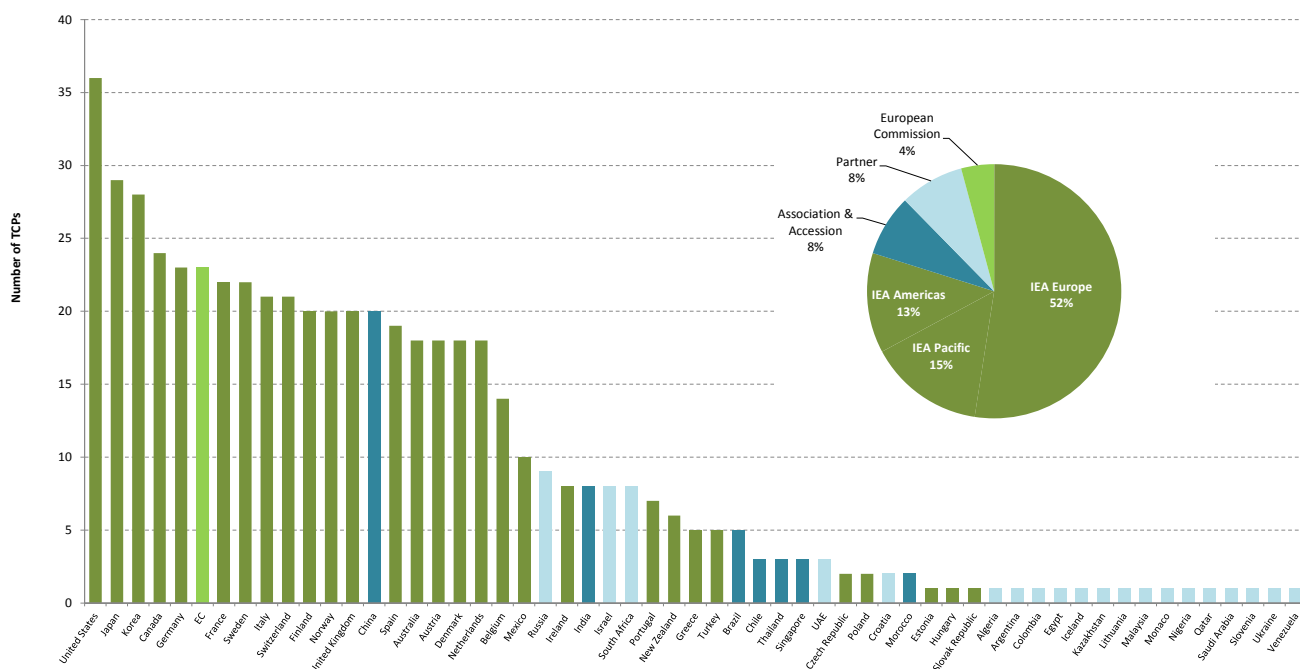
Participation by category



Participation by TCP grouping



TCPs in which countries participate



Notes

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Participation of intergovernmental organisations, namely the European Commission (EC), the Economic Community of West African States (ECOWAS), ITER, and the Organisation for Petroleum Exporting Countries (OPEC), are reported under the category 'intergovernmental' rather than the country in which the organisation is located.

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	TCPs in which the country or entity participates	Distinct Entities	Participations in TCPs																Total participations in TCPs
			Cross-cutting	End-use efficiency								Fossil fuels	Fusion	Renewables and hydrogen					
				Buildings		Electricity		Industry		Transport									
				CP	SP	CP	SP	CP	SP	CP	SP				CP	SP	CP	SP	
Entities from:																			
IEA COUNTRIES	439	199	26	2	80	2	44	5	9		61	2	51	16	25		145	13	481
United States	36	14	1	1	5		3	1	1		5		4	5	8		8	5	47
Japan	29	17	1		5		2				5		4	2	8		7		34
Korea	28	11	1		5		3				5		3	1	4		7		29
Canada	24	8	1		5		2	1			3		4		3		5		24
Germany	23	13	1		4		3	1	1		5		1	2			8	2	28
France*	22	13	3		5		1				3		3	1			9		25
Sweden	22	4	2		6		2		1		4		2				6		23
Italy	21	9	2	1	3		3	1			3		2				8		23
Switzerland	21	2	1		4		3				4		2				7		21
Finland	20	3	2		4		3				4	1	1				5		20
Norway	20	5	1		4		2		1		1		3	1			9		22
United Kingdom	20	11	1		6		2				3		3	2			6		23
Spain	19	12	1		1	2	2				3	1	3				6	1	20
Australia	18	13	1		2		1				1		4		2		7		18
Austria*	18	9			4		2		1		3		3				5		18
Denmark	18	5	1		5		1		1		3		1				6		18
Netherlands	18	6	1		4		3		1		1		1	1			6	1	19
Belgium*	14	13	3		3		2	1	1		2						5	4	21
Mexico	10	4					1				1		1	1			6		10
Ireland	8	2	1		1		2				1						3		8
Portugal	7	3			1				1				1				4		7
New Zealand	6	6			1		1										4		6
Greece	5	5	1										1				3		5
Turkey	5	4			1						1						3		5
Czech Republic	2	2											2						2
Poland	2	2			1								1						2
Estonia	1	1															1		1
Hungary	1	1											1						1
Slovak Republic	1	1															1		1
ASSOCIATION & ACCESSION COUNTRIES	44	42	0	0	3	0	4	0	0	0	6	0	6	5	7	0	18	1	50
China	20	21			2		1				4		2	2	4		7	1	23
India	8	8					2						3	1	3		1		10
Brazil	5	3											1	1			3		5
Chile	3	2									1						2		3
Singapore	3	3			1		1										1		3
Thailand	3	3									1			1			1		3
Morocco	2	2															3		3
PARTNER COUNTRIES	45	33	2		2		3				4	1	7	4	5		17	1	46
Russia	9	6	1				1						2	1	4				9
Israel	8	3			1		1				3						3		8
South Africa	8	5					1						2	1			5		9
United Arab Emirates	3	2												2			1		3
Croatia	2	2									1						1		2
Algeria	1	1															1		1
Argentina	1	1											1						1
Colombia	1	1											1						1
Egypt*	1	1															1		1
Iceland	1	1															1		1
Kazakhstan	1	1	1																1
Lithuania	1	1															1		1
Malaysia	1	1															1		1
Monaco	1	1															1		1
Nigeria*	1	1															1		1
Qatar	1	1																1	1
Saudi Arabia	1	1										1							1
Slovenia	1	1			1														1
Ukraine	1	1												1					1
Venezuela	1	1											1						1
IGOs	n.a.	n.a.	1		1		1						4	1	9		10	1	28
Coal Industry Advisory Board (CIAB)	n.a.	n.a.												1					1
Economic Community of West African S	n.a.	n.a.															1		1
European Commission	n.a.	n.a.	1		1		1						3		8		9		23
ITER International Fusion Energy Organ	n.a.	n.a.													1				1
Organisation for Petroleum Exporting C	n.a.	n.a.											1						1
Regional Centre for Renewable Energy a	n.a.	n.a.																1	1
TOTAL	n.a.	n.a.	29	2	86	2	52	5	9		71	3	68	26	46		190	16	605

Participation represents the number of entities participating in each TCP. An entity may participate in more than one TCP.

*Participation of intergovernmental organisations located in this country is reported under the name of the organisation in the section IGOs.

Luxembourg does not as yet participate in any TCPs.

Intergovernmental represents the European Commission (EC), the Economic Community of West African States (ECOWAS), ITER, and the Organisation for Petroleum Exporting Countries (OPEC).

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