

PARTICIPATION IN IEA TECHNOLOGY COLLABORATION PROGRAMMES (TCPs)

25 April 2016

News

On 11 April 2016, the **Dubai Energy and Water Authority (DEWA)** became a Sponsor in the **TCP on Clean Coal Centre (CCC TCP)**.

On 7 March 2016 the **Ministry for the Economy of the Slovak Republic** accepted the invitation to become a participant in the **TCP on Solar Heating and Cooling (SHC TCP)**. This will be the first participation of the Slovak Republic in a TCP.

On 17 November 2015 during the IEA Governing Board meeting at Ministerial level, the **Chilean Ministry for Energy** became a Contracting Party to the **Advanced Motor Fuels TCP (AMF)**. This is the first participation for Chile in a TCP.

On 12 Aug 2015, **Kazakhstan (Nazarbayev University Research and Innovation System)** became a Contracting Party to the **Energy Technology Systems Analysis TCP (ETSAP TCP)**.

Full report

[Overview charts](#)

[One page table of participations for each country by TCP category and participant category](#)

[Sponsor participations \(entities not representing governments\)](#)

[TCPs in which each country participates \(sum of Contracting Party and/or Sponsor\)](#)

[Entities participating in each TCP \(Contracting Parties and Sponsors shown separately\)](#)

[Energy Business Council and Renewable Industry Advisory Board entities participating in TCPs](#)

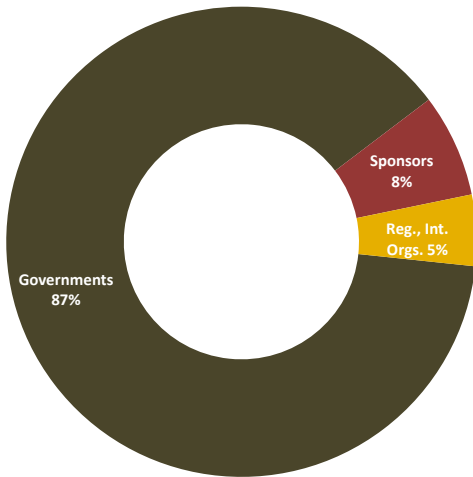
[Participation overview of individual TCPs](#)

[Timeseries of participations 1985-present](#)

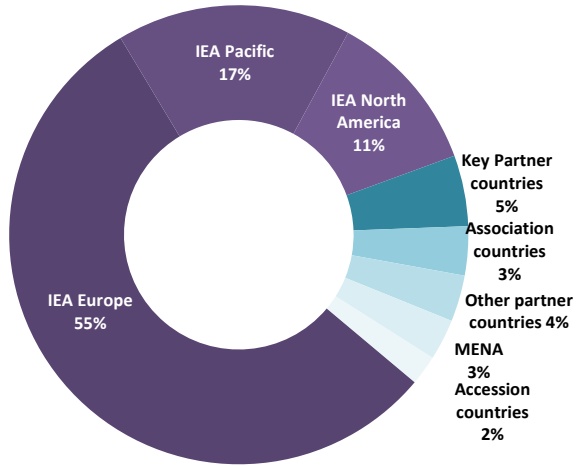
PARTICIPATION

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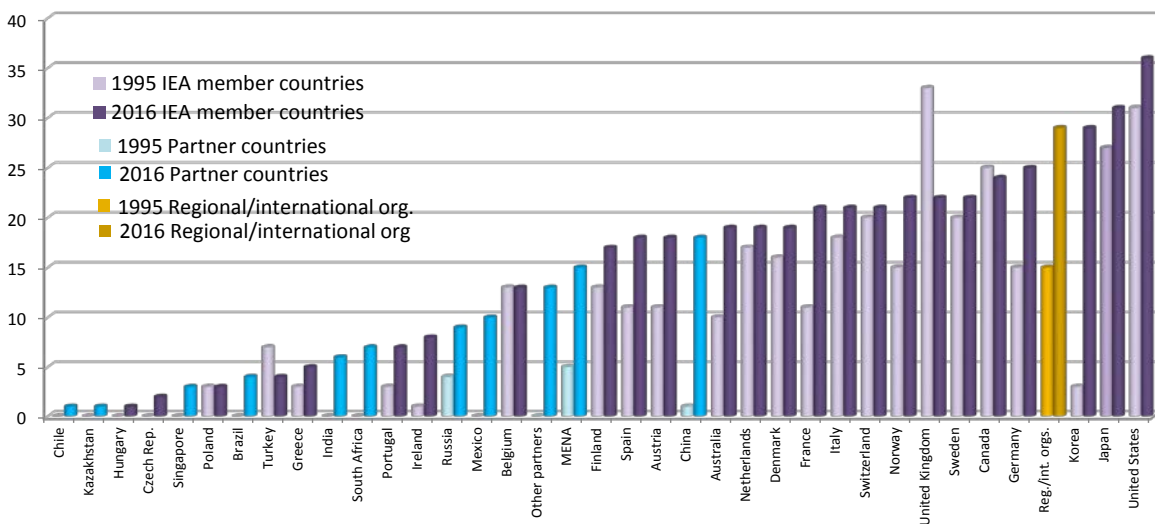
Share of participants by category



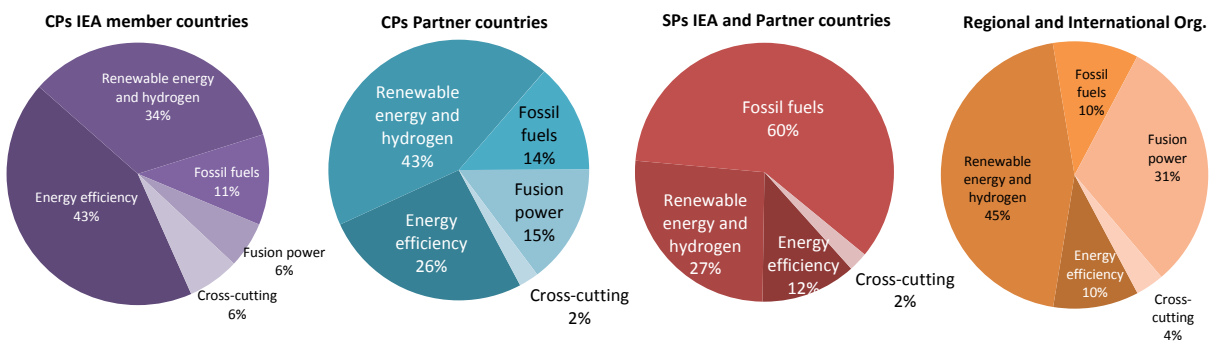
Participants by world region



TCPs in which entities participate 1995 and 2016



Participation by category of participant



An entity may participate in more than one TCP. There are two possible categories of participation in a TCP, as a Contracting Party, or CP (an entity designated by the government of an OECD member or non-member country) or as a Sponsor, or SP (an entity of an OECD member or non-member country that is not designated by the government of their respective country). MENA comprises Algeria, Egypt, Israel, Morocco, Qatar, and the United Arab Emirates. Southeast Asia comprises Malaysia, Singapore and Thailand. Regional or international organisations comprise European organisations (EC, ECI, EPIA, EWEA), ECOWAS, OPEC, RCREEE and UNIDO.

PARTICIPATIONS IN TECHNOLOGY COLLABORATION PROGRAMMES (TCPs)

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	TCPs IN WHICH THE ENTITY PARTICIPATES	ENTITIES PARTICI- PATING IN TCPs	ENTITIES PARTICIPATING IN TCPs ¹																Distinct Entities
			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	CP	SP	CP	SP	
United States	36	45	2		5		3	2	1		5		3	4	8		8	4	12
Japan	31	34	2		5		2				4		4	1	8		8		16
Korea	29	29	2		5		3		1		5		2		4		7		12
Germany	25	29	2		4		3		1		5		1	2			9	2	15
Canada	24	24	1		5		2				3		3		3		6	1	9
Sweden	22	23	2		6		3		1		4		1				6		2
Norway	22	24	2		4		2		1		1		3	1			10		6
United Kingdom	22	26	1		6		2				3		4	3			7		15
France	21	25	3		4		1				3		3	2			9		11
Italy	21	24		1	3		3	1			4		2				10		11
Switzerland	21	22	1		3		3				4		2	1	1		7		4
Denmark	19	19	1		5		1		1		3		1				7		5
Netherlands	19	20	1		4		3		1		1		1	1			7	1	4
Austria	18	18	1		3		2				3		4				5		8
Australia	19	19			2		1				3		4		1		8		14
Finland	17	18	1		3		3				4		1				6		3
Spain	18	18	1		1	1	2				3		3				6	1	11
Belgium	13	16	3		3		2		1		2						5		7
Ireland	8	8	1		1		1				1						4		2
New Zealand	7	7			1		1						1				4		8
Portugal	7	7			1				1				1				4		5
Greece	5	5	1										1				3		4
Turkey	4	4			1						1						2		4
Poland	3	3				1													4
Czech Republic	2	2			1								1						2
Hungary	1	1											1						1
Estonia																			
Luxembourg																			
Slovak Republic																			
IEA COUNTRIES	n.a.	470	28	1	76	2	43	3	9		62		49	15	25		148	9	195
China	18	20			2		1				3		2	2	4		5	1	16
Mexico	10	10					1				1		1	1			6		3
Russia	9	9	1				1						2	1	4				6
Israel	8	8			1		1				3						3		3
India	6	9					2						3	1	3				4
South Africa	7	8					1						2	1			4		3
Brazil	4	4												1			3		3
Singapore	3	3					1										2		3
Thailand	FALSE	3									1			1			1		3
U.A.E.	3	3												2			1		2
Algeria	1	1															1		1
Chile	1	1									1								1
Croatia	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
Morocco	1	2															2		2
Nigeria	1	1															1		1
Qatar	1	1																1	1
Slovenia	1	1			1														1
Ukraine	1	1													1				1
Venezuela	1	1											1						1
PARTNER COUNTRIES	n.a.	93	2		4		8				9		11	10	12		35	2	62
EC	20	20	1		1		1						2		8		7		1
ECI	2	2						1										1	1
ECOWAS	1	1																1	1
EPIA	1	1																1	1
EWEA	1	1																1	1
ITER	1	1													1				1
OPEC	1	1											1						1
RCREEE	1	1																1	1
UNIDO	1	1															1		1
INTL/REG. ORGS	n.a.	29	1		1		1	1					3		9		8	5	9
TOTAL	n.a.	592	31	1	81	2	52	4	9		71		63	25	46		191	16	266

1. Participations represent signatories (Contracting Parties or Sponsors) to each TCP. An entity may participate in more than one TCP.

CP: Contracting Party SP: Sponsor

EC: European Commission and the European Atomic Energy Community ECI: European Copper Institute EPIA: European Photovoltaic Industry Association

EWEA: European Wind Energy Association ECOWAS: Economic Community of West African States ITER: International Thermonuclear Experimental Reactor

OPEC: Organisation for Petroleum Exporting Countries RCREEE: Regional Centre for Renewable Energy and Energy Efficiency

UNIDO: United Nations Industrial Development Organisation

PARTICIPATION OF SPONSORS IN IEA TCPs

25 April 2016

Technology Collaboration Programmes (TCPs)	IEA COUNTRIES	PARTNER COUNTRIES	REGIONAL AND INTER-NATIONAL ORGANI-SATIONS	TOTAL
<i>Entity location</i>				
Climate Technology Initiative (CTI TCP)				
Energy Tech. Systems Analysis (ETSAP TCP)	1			1
CROSS-CUTTING	1			1
Buildings and Communities (EBC TCP)				
District Heating and Cooling (DHC TCP)				
Energy Storage (ECES TCP)	2			2
Energy Efficient End-use Equipment (4E TCP)				
Heat Pumping Technologies (HPT TCP)				
End-use: Buildings	2			2
Demand-Side Management (DSM TCP)	1		1	2
High-Temperature Superconductivity (HTS TCP)	2			2
Smart Grids (ISGAN TCP)				
End-use: Electricity	3		1	4
Industrial Technologies and Systems (IETS TCP)				
End-use: Industry				
Advanced Fuel Cells (AFC TCP)				
Advanced Materials for Transportation (AMT TCP)				
Advanced Motor Fuels (AMF TCP)				
Emissions Reduction in Combustion (Combustion TCP)				
Hybrid and Electric Vehicles (HEV TCP)				
End-use: Transport				
END-USE	5		1	6
Clean Coal Centre (CCC TCP)		7		7
Enhanced Oil Recovery (EOR TCP)				
Fluidized Beds Conversion (FBC TCP)	1			1
Gas and Oil (GO TCP)				
Greenhouse Gas R&D (GHG TCP)	14	3		17
FOSSIL FUELS	15	10		25
Environmental, Safety, Economic Aspects (ESEFP TCP)				
Fusion Materials (FM TCP)				
Nuclear Tech. Fusion Reactors (NTFR TCP)				
Plasma-Wall Interaction (PWI TCP)				
Reverse-Field Pinches (RFP TCP)				
Spherical Tori (ST TCP)				
Stellarator-Heliotron (SH TCP)				
Tokamak Programmes (CTP TCP)				
FUSION POWER				
Bioenergy TCP				
Concentrated Solar Power (SolarPACES TCP)				
Hydrogen TCP	3			3
Hydropower TCP				
Geothermal Energy (Geothermal TCP)	3			3
Ocean Energy Systems (OES TCP)				
Photovoltaic Power Systems (PVPS TCP)	3		1	4
Renewable Energy Technology Deployment (RETD TCP)				
Solar Heating and Cooling (SHC TCP)		1	3	4
Wind Energy (Wind TCP)		1	1	2
RENEWABLE ENERGY AND HYDROGEN	9	2	5	16
TOTAL ALL CATEGORIES	30	12	6	48

Technology Collaboration Programmes (TCPs)	ORMAT Technologies, Inc	Regulatory Assist. Project	Shaw Consultants, Int.	Solar Electric Power Ass.	Solar Energy Ind. Ass.
<i>Entity location</i>	US	US	US	US	US
Climate Technology Initiative (CTI TCP)					
Energy Tech. Systems Analysis (ETSAP TCP)					
CROSS-CUTTING					
Buildings and Communities (EBC TCP)					
District Heating and Cooling (DHC TCP)					
Energy Storage (ECES TCP)					
Energy Efficient End-use Equipment (4E TCP)					
Heat Pumping Technologies (HPT TCP)					
End-use: Buildings					
Demand-Side Management (DSM TCP)		1			
High-Temperature Superconductivity (HTS TCP)					
Smart Grids (ISGAN TCP)					
End-use: Electricity		1			
Industrial Technologies and Systems (IETS TCP)					
End-use: Industry					
Advanced Fuel Cells (AFC TCP)					
Advanced Materials for Transportation (AMT TCP)					
Advanced Motor Fuels (AMF TCP)					
Emissions Reduction in Combustion (Combustion TCP)					
Hybrid and Electric Vehicles (HEV TCP)					
End-use: Transport					
END-USE		1			
Clean Coal Centre (CCC TCP)					
Enhanced Oil Recovery (EOR TCP)					
Fluidized Beds Conversion (FBC TCP)			1		
Gas and Oil (GO TCP)					
Greenhouse Gas R&D (GHG TCP)					
FOSSIL FUELS			1		
Environmental, Safety, Economic Aspects (ESEFP TCP)					
Fusion Materials (FM TCP)					
Nuclear Tech. Fusion Reactors (NTFR TCP)					
Plasma-Wall Interaction (PWI TCP)					
Reverse-Field Pinches (RFP TCP)					
Spherical Tori (ST TCP)					
Stellarator-Heliotron (SH TCP)					
Tokamak Programmes (CTP TCP)					
FUSION POWER					
Bioenergy TCP					
Concentrated Solar Power (SolarPACES TCP)					
Hydrogen TCP					
Hydropower TCP					
Geothermal Energy (Geothermal TCP)	1				
Ocean Energy Systems (OES TCP)					
Photovoltaic Power Systems (PVPS TCP)				1	1
Renewable Energy Technology Deployment (RETD TCP)					
Solar Heating and Cooling (SHC TCP)					
Wind Energy (Wind TCP)					
RENEWABLE ENERGY AND HYDROGEN	1			1	1
TOTAL ALL CATEGORIES	1	1	1	1	1

ROs/IOs participating as Sponsors

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Technology Collaboration Programmes (TCPs)	Eco. Community, West African States	European Copper Inst.	Eur. Photovoltaic Assoc.	Eur. Wind Energy Assoc.	Reg. Centre Renewable Energy and En. Eff.
<i>Entity location</i>					
Climate Technology Initiative (CTI TCP)					
Energy Tech. Systems Analysis (ETSAP TCP)					
CROSS-CUTTING					
Buildings and Communities (EBC TCP)					
District Heating and Cooling (DHC TCP)					
Energy Storage (ECES TCP)					
Energy Efficient End-use Equipment (4E TCP)					
Heat Pumping Technologies (HPT TCP)					
End-use: Buildings					
Demand-Side Management (DSM TCP)		1			
High-Temperature Superconductivity (HTS TCP)					
Smart Grids (ISGAN TCP)					
End-use: Electricity		1			
Industrial Technologies and Systems (IETS TCP)					
End-use: Industry					
Advanced Fuel Cells (AFC TCP)					
Advanced Materials for Transportation (AMT TCP)					
Advanced Motor Fuels (AMF TCP)					
Emissions Reduction in Combustion (Combustion TCP)					
Hybrid and Electric Vehicles (HEV TCP)					
End-use: Transport					
END-USE		1			
Clean Coal Centre (CCC TCP)					
Enhanced Oil Recovery (EOR TCP)					
Fluidized Beds Conversion (FBC TCP)					
Gas and Oil (GO TCP)					
Greenhouse Gas R&D (GHG TCP)					
FOSSIL FUELS					
Environmental, Safety, Economic Aspects (ESEFP TCP)					
Fusion Materials (FM TCP)					
Nuclear Tech. Fusion Reactors (NTFR TCP)					
Plasma-Wall Interaction (PWI TCP)					
Reverse-Field Pinches (RFP TCP)					
Spherical Tori (ST TCP)					
Stellarator-Heliotron (SH TCP)					
Tokamak Programmes (CTP TCP)					
FUSION POWER					
Bioenergy TCP					
Concentrated Solar Power (SolarPACES TCP)					
Hydrogen TCP					
Hydropower TCP					
Geothermal Energy (Geothermal TCP)					
Ocean Energy Systems (OES TCP)					
Photovoltaic Power Systems (PVPS TCP)			1		
Renewable Energy Technology Deployment (RETD TCP)					
Solar Heating and Cooling (SHC TCP)	1	1			1
Wind Energy (Wind TCP)				1	
RENEWABLE ENERGY AND HYDROGEN	1	1	1	1	1
TOTAL ALL CATEGORIES	1	2	1	1	1