

NUCLEAR FOR CLIMATE Position Paper:

Nuclear energy should be part of COP21 agreement that drives meaningful reductions in carbon

Nuclear for Climate, a global initiative supported by more than 140 regional and national nuclear associations and technical societies, said in a new position paper today that a significant expansion of nuclear energy is necessary for the world to achieve an 80 percent reduction in greenhouse gas emissions by 2050.

The position paper, entitled “Nuclear is part of the solution for fighting climate change” urges negotiators at the United Nations Framework Convention on Climate Change Conference of the Parties (COP21) to develop an achievable agreement for the reduction of greenhouse gases which ensure(s) that the right of countries to choose nuclear energy in order to reduce greenhouse gas emissions while meeting their energy and development objectives. This choice should not be prejudiced against in any way by the new UNFCCC protocols, specifically with regards to access to climate funding mechanisms such as Green Climate Funds.

“We strongly believe the world must use all available low-carbon energy sources, including nuclear energy, if it is to mitigate the effects of climate change and reduce greenhouse gas emissions while meeting development goals and not impeding on economic growth,” said Valérie Faudon, director-general at the French Nuclear Energy Society (SFEN).

“Nuclear energy is a proven low-carbon energy technology that makes a profound contribution to preventing greenhouse gases today and will be vital to meeting any agreement reached in Paris,” said Eugene Grecheck, president of the American Nuclear Society (ANS). *“Multiple studies have shown that a significant expansion of nuclear energy is needed to achieve an 80 percent reduction in emissions by 2050. The COP21 agreement should reflect this research and support developing nations wishing to make nuclear part of their energy/climate strategy.”*

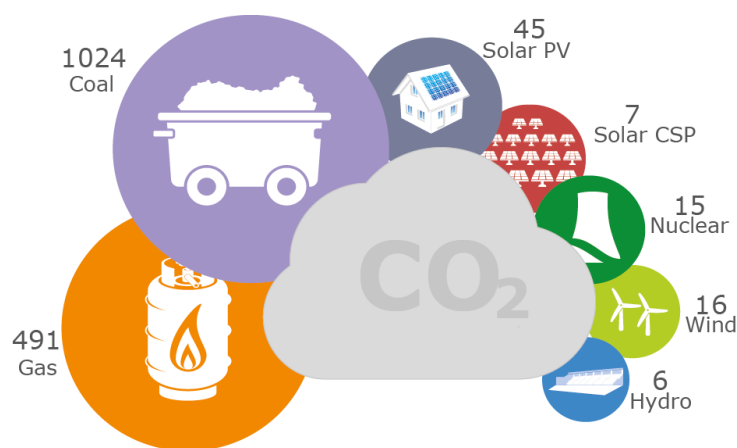
The International Panel on Climate Change (IPCC) identifies three types of carbon-free electricity: renewables, nuclear energy and fossil fuels with carbon capture and storage. According to the panel there is a limited amount of cumulative emissions that cannot be exceeded if we are to limit average global warming to 2°C. The IPCC estimates that we have already reached nearly two-thirds of this amount and that significant greenhouse gas reductions are needed now.

“All countries should have the right to choose nuclear energy to reduce greenhouse gas emissions and meet their national clean energy objectives,” said Jean-Pol Poncelet, secretary general of the European Nuclear Society. *“All possible solutions have to be carefully considered and all ideologically or doctrinally driven decisions avoided. States should recognise nuclear energy as a greenhouse gas-reducing technology necessary for us to achieve the sustainability we want.”*

"India is poised for a large expansion in nuclear power to supply a quarter of the country's electricity, to help achieve the goal of meeting increasing electricity needs, while mitigating climate change at the same time" said RK Singh, Secretary of the Indian Nuclear Society.

Globally, 438 reactors generate around 11 percent of the world's electricity, with almost no greenhouse gas emissions. In the European Union, nuclear energy accounts for more than half of all low-carbon electricity. In the United States, it accounts for 63 percent of all low-carbon electricity.

Going forward, developed and developing countries alike will expand nuclear energy as part of their transition to a lower carbon electrical grid. For example, China is expected to account for one-third of the world's installed nuclear energy capacity by 2050 to meet its energy and climate change goals.



Nuclear power is a low-carbon energy source. Throughout its life-cycle (construction, operation, decommissioning) its emissions are comparable to those of renewable energy sources. Nuclear power emits an average of 15g CO₂/kwh. This is the same level as wind power (17g/kwh), three times less than the photovoltaic (45g/kwh), 30 times less than natural gas (491g/kwh), and 60 times less than coal (1024g/kwh).

We invite you to meet with our experts from all countries at "La Galerie - COP21", the exhibition of low carbon solutions from 2 to 9 December 2015 at the Air and Space Museum - Paris le Bourget.

You can also download the "Nuclear for Climate N4C" mobile app on your smartphone!

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List of Associations Supporting the Nuclear for Climate Initiative

Country	Name of Organization
Argentina	AATN - Argentina Association of Nuclear Technology
Argentina	WiN Argentina - Women in Nuclear Chapter
Argentina	Argentina - Young Generation Network
Australia	ANA - Australian Nuclear Association
Australia	WiN Australia - Women in Nuclear Chapter
Australia	Australia - Young Generation Network
Austria	Austrian Nuclear Society - Young Generation Network
Austria	OKTG - Austrian Nuclear Society
Austria	WiN IAEA - Women in Nuclear Chapter
Belarus	Belarus - Young Generation Network
Belgium	BNS - Belgian Nuclear Society
Belgium	FNB- Belgian Nuclear Forum
Belgium	Belgian Nuclear Society Young Generation Network
Bolivia	Bolivia- Young Generation Network
Brazil	ABEN - Brazilian Nuclear Energy Association
Brazil	Associação Brasileira para Desenvolvimento de Atividades Nucleares
Brazil	WiN Brazil - Women in Nuclear Chapter
Brazil	Brazil - Young Generation Network
Bulgaria	BGNS - Bulgarian Nuclear Society
Bulgaria	BULATOM - Bulgarian Atomic Forum
Bulgaria	WiN Bulgaria - Women in Nuclear Chapter
Bulgaria	Bulgarian Young Generation Network
Canada	CNS-SNC - Canadian Nuclear Society
Canada	CNA- Canadian Nuclear Association
Canada	WiN Canada - Women in Nuclear Chapter
Canada	Canada - Young Generation Network
China	CNC - Chinese Nuclear Society
China	WiN China - Women In Nuclear Chapter
China	Chinese Nuclear Society Young Generation Network
Croatia	Croatian Nuclear Society Young Generation Network
Croatia	HND - Croatian Nuclear Society
Czech Republic	Czech Young Generation Network
Czech Republic	CNS - Czech Nuclear Society
Czech Republic	WiN Czech - Women in Nuclear Chapter
Ecuador	Ecuador - Young Generation Network
Egypt	WiN Egypt - Women in Nuclear Chapter
Europe	ENS - European Nuclear Society

Europe	FORATOM - European Nuclear Forum
Europe	WiN Europe - Women in Nuclear Chapter
Finland	ATS - Finnish Nuclear Society
Finland	Finnish Energy Industries
Finland	WiN Finland - Women in Nuclear Chapter
Finland	Finnish Nuclear Society Young Generation
France	SFEN - French Nuclear Energy Society
France	FAIF - French Atomic Industrial Forum
France	WiN France - Women in Nuclear Chapter
France	SFEN-JG - French Young Generation Network
Germany	KTG - German Nuclear Society
Germany	DAfF - German Atomic Forum
Germany	WiN Germany - Women in Nuclear Chapter
Hungary	MNT - Hungarian Nuclear Society
Hungary	Hungarian Nuclear Forum
Hungary	WiN Hungary - Women in Nuclear Chapter
Hungary	Hungarian Youth for Nuclear - Young Generation Network
India	INS - Indian Nuclear Society
India	WiN India - Women in Nuclear Chapter
India	India Young Generation in Nuclear - Young Generation Network
Indonesia	WiN Indonesia - Women in Nuclear Chapter
Israel	Israel - Young Generation Network
Italy	AIN - Italian Nuclear Association
Italy	Italy - Young Generation Network
Jamaica	Jamaica - Young Generation Network
Japan	AESJ - Atomic Energy Society of Japan
Japan	JAIF - Japan Atomic International Forum
Japan	WiN Japan - Women in Nuclear Chapter
Japan	Japan - Young Generation Network
Jordan	WiN Jordan - Women in Nuclear Chapter
Kazakhstan	NSK - Nuclear Society of Kazakhstan
Kenya	Kenyan Young Generation in Nuclear- Young Generation Network
Latin America	LAS-ANS - Latin American Section American Nuclear Society
Lithuania	BEA - Lithuanian Nuclear Energy Association
Lithuania	Lithuania - Young Generation Network
Malaysia	PNM - Malaysia Nuclear Society
Malaysia	WiN Malaysia - Women in Nuclear Chapter
Malaysia	Malaysia - Young Generation Network
Mexico	SNM - Mexican Nuclear Society
Mexico	Mexico - Young Generation Network

Mongolia	MNS - Mongolian Nuclear Society
Morocco	AIAM - Association des Ingénieurs en Génie Atomique
Netherlands	NNS - Netherlands Nuclear Society
Netherlands	Dutch Atomic Forum
Netherlands	Dutch Young Generation in Nuclear - Young Generation Network
Nigeria	Nigeria - Young Generation Network
Pakistan	WiN Pakistan - Women in Nuclear Chapter
Peru	Peru - Young Generation Network
Poland	WiN Poland - Women in Nuclear Chapter
Poland	Poland - Young Generation Network
Portugal	Portugal - Young Generation Network
Romania	AREN - Romanian Nuclear Energy Association
Romania	ROMATOM - Romanian Nuclear Forum
Romania	WiN Romania - Women in Nuclear Chapter
Romania	Romanian Young Generation Network
Russia	NSR - Nuclear Society of Russia
Russia	YDRNS - Youth Department of Nuclear Society of Russia
Serbia	NNS - Nuclear Society of Serbia
Slovakia	SNUS - Slovak Nuclear Society
Slovakia	Slovak Nuclear Forum
Slovakia	WiN Slovakia - Women in Nuclear Chapter
Slovakia	Slovakia - Young Generation Network
Slovenia	DJS - Nuclear Society of Slovenia
Slovenia	Slovenian Nuclear Forum
Slovenia	WiN Slovenia - Women in Nuclear Chapter
Slovenia	Slovenia - Young Generation Network
South Africa	NIASA - Nuclear Industry Association of South Africa
South Africa	WiN South Africa - Women in Nuclear Chapter
South Africa	South Africa - Young Generation Network
South Korea	WiN Korea - Women in Nuclear Chapter
South Korea	KNS - Korean Nuclear Society
South Korea	South Korean Young Generation in Nuclear - Young Generation Network
Spain	SNE - Spanish Nuclear Society
Spain	FORONUCLEAR - Spanish Nuclear Industry Forum
Spain	WiN Spain - Women in Nuclear Chapter
Spain	Spanish Nuclear Society Young Generation in Nuclear - Young Generation Network
Sri Lanka	YNSS - Youth Nuclear Society of Sri Lanka - Young Generation Network

Sweden	SKS - Swedish Nuclear Society
Sweden	Swedish Nuclear Forum
Sweden	WiN Sweden - Women in Nuclear Chapter
Sweden	Swedish Young Generation Network
Switzerland	SGK - Swiss Nuclear Society
Switzerland	Swiss Nuclear Forum
Switzerland	WiN Switzerland - Women in Nuclear Chapter
Switzerland	Swiss Nuclear Society - Young Generation Network
Taiwan	WiN Taiwan - Women in Nuclear Chapter
Tanzania	Tanzania - Young Generation Network
Thailand	NST - Nuclear Society of Thailand
Turkey	NMD - Nuclear Engineers Society of Turkey
Turkey	NIAT - Nuclear Industry Association Turquie
Turkey	WiN Turkey - Women in Nuclear Chapter
United Arab Emirates	WiN UAE (United Arab Emirates) - Women in Nuclear Chapter
United Arab Emirates	United Arab Emirates - Young Generation Network
United Kingdom	NI - Nuclear Institute
United Kingdom	NIA - Nuclear Industry Association
United Kingdom	WiN UK - Women in Nuclear Chapter
United Kingdom	Nuclear Institute Young Generation Network
Ukraine	UNS - Ukraine Nuclear Society
Ukraine	UNF - Ukrainian Nuclear Forum Association
Ukraine	WiN Ukraine - Women in Nuclear Chapter
Ukraine	Youth Section of the Ukrainian Nuclear Society - Young Generation Network
USA	ANS - American Nuclear Society
USA	NEI - Nuclear Energy Institute
USA	WIN US - Women in Nuclear Chapter
USA	NIC - United States Nuclear Infrastructure Council
World	WFEO - World Federation of Engineering Organizations
World	WNA - World Nuclear Association
World	INSC - International Nuclear Society Council
World	IYNC - International Youth Nuclear Congress
World	WiN Global - Women in Nuclear Global