

NEWS

FEATURES

ANNOUNCEMENTS

DIRECTORY

ABOUT

Business

Climate change Energy Government Society Green Economy

Latest news: EMA sets aside S\$30m for Intelligent Energy System project

29 September 2010



2 - 4 NOVEMBER 2010

SUNTEC Singapore | www.cleanenergyexpoasia.com

News / Energy

Nuclear energy still a heavily contested topic

The S. Rajaratnam School of International Studies Centre for Non-Traditional Security Studies' (RSIS-NTS') recent workshop showed a clear divide in opinions between energy panellists when debating the environmental, economical and security aspects of nuclear energy, its use in Asia as well as feasibility in Singapore.

Titled 'Nuclear Energy and Human Security: Critical Debates', the workshop featured some of Asia-Pacific's most prominent energy specialists, such as University of New South Wales' Deputy Director of the Institute of Environmental Studies Dr Mark Diesendorf, Executive Director of the Institute of Applied Energy in Japan Dr Kazuaki Matsui, National University of Singapore's Principal Fellow at the Energy Studies Institute Dr Michael Quah, and Singapore Institute of International Affairs Chairman Associate Professor Simon Tay.

Arguing for the safety of nuclear energy to the environment, Lee Kwan Yew School of Public Policy Assistant Professor Dr T S Gopi Rethinaraj said that there are several lines of defence where nuclear power plants are concerned, and that the incidence of core meltdown is low.

"There are risks of course, but talking about inherent risks doesn't make sense," he explained.

He added that nuclear fear has deeper roots, referring to risks

"Fear of death from cancer is only a manifestation of a deeper socio-psychological issue," he said, before likening this fear to witch hunting.

In response, Associate Professor Simon Tay said, "There are a number of risks," and elaborated on three points that suggested nuclear plants may not be ecologically sound. He noted thermal pollution "is not just hot air from the air conditioner next to you", that water is in short supply, in reference to cooling towers, and addressed the issue of nuclear waste.

Mr Tay urged for a thorough environmental impact assessment to be conducted before proceeding.

"We should not assume the culture of safety is there, especially when there is no record," he said.

Energy Studies Institute Principal Fellow Dr Michael Quah, who served as one of the commentators for the day, remarked that nothing is 100% safe, and that nuclear waste is a real issue.

"It must be understood in the environmental and sustainability

By OI	ivia	Choon	(
--------------	------	-------	---

12 May 2010

Category Energy

Tagged

Nuclear Energy and Human Security, S. Rajaratnam School of International Studies

0 Comments

Add your comment









Follow @ecobusinesscom on Twitter

Join us on Facebook

in Join us on Linked In

Media partner of

SGBC Green Building Conference and WorldGBC International Congress 2010 September 13 to 16



International Singapore Compact CSR Summit October 6 to 7, 2010





Event Coverage Sponsor

Subscr	ibe to o	ur new	slette	r
Name:				
Email:				
				Subscribe

Most read / Most commented

- 1. Nuclear energy still a heavily contested topic
- 2. Singapore's leaders pledge carbon cut
- 3. Malaysia to introduce feed-in tariff for solar energy
- 4. Carbon management tool pilot launches in
- 5. Indonesia to tackle climate change on its own
- 6. Warming to the hybrid approach in solar energy

Tags-more...

ADB agriculture australia aviation biodiversity biomass buildings carbon carbon emissions carbon trading CDM

areas," and added that, "The environment cannot be the last factor we look at," underscoring the importance of economic development and not economic growth.

Dr Quah also said that the issue that should be framed is sustainability, and proposed that nuclear be considered as "one of several alternatives in an energy portfolio."

Looking at the economic aspects, Dr Kazuaki Matsui championed the low cost in generating energy.

"The cheapest options vary depending on local conditions but future measures for carbon pricing could further strengthen the position of nuclear as compared to fossil fuels."

Dr Mark Diesendorf instead encouraged using a mix of renewable energy.

"Nuclear power is not perfect and needs a back-up," sharing also that nuclear plants differ depending on the site, and recommended windfarms and solar energy as alternatives to consider.

Panel commentator RSIS-NTS' Assistant Professor Dr Chang Youngho raised several points, suggesting that a more market-based discount rate be used to determine the cost of building a nuclear plant, since "the decommissioning rate is not low at all." and "if countries used to advanced technology cannot manage nuclear plants, what about developing countries? How can we trust them to manage it?"

He also asked, "Does low-hanging fruit in technology really exist?" and "What is the real cost of using nuclear energy?"

Addressing security issues of nuclear energy, The University of Tokyo's Professor of the Global Centre of Excellence Program in Nuclear Education and Research Initiative, Dr Jor-Shan Choi and James Martin Center for Nonproliferation Studies Senior Research Associate Mr Miles Pomper were both on the same page.

Dr Choi and Mr Pomper talked about safety concerns of the physical protection of nuclear facilities and its transportation, International Atomic Energy Agency (IAEA) safeguards, spread of sensitive technologies such as enrichment and reprocessing, and lastly, spent fuel.

Dr Choi suggested that a new approach is necessary, where more co-operation and co-ordination on nuclear security is needed for materials as well as facilities, and ensuring that weapon-usable material be minimised. He also talked about providing nuclear power that is economically-competitive with an assurance of reliable supply and take-back, reduction of proliferation and spent fuel burden for countries wanting only to generate nuclear energy, and encouraged R&D; programmes to treat and dispose of long-life and problematic radionuclide in spent fuel.

Mr Pomper proposed that it is necessary to balance nuclear energy growth and nuclear security, recommending several measures, including nuclear security infrastructure be developed, said that there is a need not only to foster nuclear security culture, but also implement international agreements. In addition, he suggested the reduction or elimation of civilian use of Highly Enriched Uranium, boosting IAEA safeguards, and multilateral approaches to the fuel cycle.

In the final session of the workshop, RSIS-NTS Head, Professor Mely Caballero-Anthony and RSIS-NTS Research Analyst Kevin Christopher Punzalan discussed the roles of Civil Society Organisations (CSOs) in the nuclear energy debate, providing case studies on how CSOs have influenced government policy.

Their joint paper with Jakarta's Centre for Strategic & International Studies (CSIS) Department of International Relations Researcher Lina A. Alexandra will soon be available for download at their website.

While views remained split on the of feasibility of a nuclear energy plant in Singapore and Asia, all panellists came to a consensus that more research needs to be done with the environment,

china cities clean energy cleantech climate Climate Change climate-change coal cop15 cop16 copenhagen copenhagen accord deforestation economy electric electric vehicles emissions energy environment finance funding gas geothermal Green green buildings growth India Indonesia infrastructure investment IPCC kyoto LNG nuclear oil palm palm oil policy power REDD renewable energy renewables shipping singapore solar suzlon technology trading UN UNFCCC vehicles waste water wind wwf

Ads by Google

Renewable Energy Info

Find Out About Eco Energy Sources & How To Be Green. Get A Free Report! www.The-Green-Guide.info/

IELTS Course Singapore

Full IELTS Prep Starts 29 Sep. Over 20,000 students since 1999. www.icon-plus.com/IELTS

Decontamination equipment

We are specialized in nuclear decontamination equipment www.fagerstrom.se



Ads by Google

	rity of Asia in mind before moving ahead.	
dd your comn	пені	_
Name		
Email address		
URL		
Comment		
Comment		a
		7
	Post comment	



 $founding\ partners$





In partnership with









On this site

RSS Feed

Contact Us

Advertise

Disclaimer



eco-business.com by eco-business.com is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 Singapore License