

VIETNAM ENERGY FORUM & EXHIBITION

2008

ELECTRICITY, OIL AND COAL

www.cpexhibition.com/energy08/

Date : October 29 - November 1, 2008

2008年11月1日10月29日

Venue : National Convention Center, Hanoi, Vietnam

越南能源论坛暨展览会



Supported by : Ministry of Industry & Trade of Vietnam

Co-organizer : Vietnam Trading Promotion and Service JSC (VIEPromotion)

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TOPICS 展会主题

POWER GENERATION 发电技术及设备

- ◇ Combined Heat Power 热电联产
- ◇ Electrical Generators 发电机
- ◇ Fuel Cells 燃料电池
- ◇ Heat Engines 热机
- ◇ Jenbacher Engines 颜巴赫发动机
- ◇ Liquefaction & Gasification 液化/气化
- ◇ Microturbines 微型燃气轮机
- ◇ Photovoltaic Systems 光伏系统
- ◇ Piston Engines 活塞式发动机
- ◇ Reciprocating Engines 往复式发动机
- ◇ Stirling Engines 斯特林发动机
- ◇ Stream/ Gas/ Wind Turbines 蒸汽轮机/燃气轮机/风力机

POWER PLANTS 发电站

- ◇ Coal Power Plants 煤电站
- ◇ Gas Power Plants 天然气电厂
- ◇ Hydroelectricity 水电
- ◇ Nuclear Reactors Plants 核反应堆
- ◇ Renewable Energy Plants 可再生能源电厂
- ◇ Thermal Power Plants 火电厂

TRANSMISSION & DISTRIBUTION 送电配电系统

- ◇ AMR (Auto Meter Reading) 自动抄表
- ◇ Capacitors/ Fuses/ Resistors/ Starters 电容/熔断器/电阻/启动器
- ◇ Circuit Breakers 断路器
- ◇ Coal Measures 煤炭测量
- ◇ Communication Technology – PoE 以太网供电
- ◇ Energy Management 能源管理
- ◇ Lighting Controls 灯光控制
- ◇ Metering Systems/ Modular Metering 计量系统/模块仪表
- ◇ Power Lines/ Cables 电线/缆
- ◇ RMR (Remote Meter Reading) 远程抄表
- ◇ Smart Meters 智能仪表
- ◇ Substations 变电站
- ◇ Switches/ Transformers 交换机/变压器
- ◇ Transmission Circuits 输电电路
- ◇ Voltage Regulators 电压调节器
- ◇ Wireless Power Transmission 无线输电

THE ENERGY FORUM AND EXHIBITION

brings about more chances for energy companies and companies related to energy investment to present their achievements with their products, pictures, and models; there, companies can introduce special subjects in their business area to the forum, seek out and exchange information, and consolidate and expand their business networks. This is also a time for companies to point out their challenges and difficulties in developing Vietnam's next stage of energy development.



SPACE APPLICATION 展位申请表格

VIETNAM ENERGY FORUM & EXHIBITION 2008

越南能源论坛暨展览会

October 29 - November 1, 2008
National Convention Center, Hanoi, Vietnam

Please return to:

CP EXHIBITION (Branch of China Promotion Ltd)

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Address 地址: _____

Tel 电话: _____ Fax 传真: _____ Email 电邮: _____

Authorised Official's Name 负责人名称: _____ Position 职位: _____

I/We the undersigned wish to participate in "VIETNAM ENERGY FORUM & EXHIBITION 2008".

I/We accept the rules & regulations as stated in www.cpexhibition.com/cpv.pdf

Kindly reserve a booth space as indicated below. (Please choose one below)

<input type="checkbox"/>	INDOOR RAW SPACE 室内光地 (minimum. 36 sq.m) USD 295 or EUR 210 per sq.m x Width _____ M x Depth _____ M = USD / EUR _____ Including Space, directory listing, 24 hours security and cleaning service. (* Surcharge for corner booth)
<input type="checkbox"/>	FURNISHED CONSTRUCTED BOOTH 标准展台 (minimum. 9 sq.m) USD 345 or EUR 246 per sq.m x Width _____ M x Depth _____ M = USD / EUR _____ Including Space, carpet, walls, spot light or fluorescent tube, powerpoint, information desk, chairs, Company name panel, directory listing, 24 hours security and cleaning service. (* Surcharge for corner booth)
<input type="checkbox"/>	OUTDOOR RAW SPACE 室外光地 (minimum. 50 sq.m) USD 145.50 or EUR 104 per sq.m x Width _____ M x Depth _____ M = USD / EUR _____ Including Space, directory listing, 24 hours security and cleaning service. (* Surcharge for corner booth)
<input type="checkbox"/>	INFORMATION BOOTH PACKAGE 咨询桌 <input type="checkbox"/> USD 1,380 or EUR 986 per company (package detail on request)
<input type="checkbox"/>	ADVERTISEMENT IN EXPO DIRECTORY 会刊广告 Form USD 355 or EUR 253 to USD 2,400 or EUR 1,714 (detail on request)

TERMS OF PAYMENT 付款方法: A deposit in USD or EUR (Customer's choice) of 50% of the fee must be returned with completed application form. The remaining payment must be paid in full on or before four months of exhibition date. Cheques should be made payable to CP EXHIBITION or by T/T to: BANK OF CHINA (HONG KONG) LIMITED, 1 Garden Road, Central, Hong Kong, A/C No: 012-875-9-213778-9, in favour of CP EXHIBITION

Authorized Signature _____ Name: _____ Date: _____

JOINT EFFORT OF TWO ORGANIZERS

The Vietnam International Energy Forum & Exhibition 2008, held at the National Conference Centre (NCC), is a joint event of two organizers, CP Exhibition for overseas and VIEPromotion in Vietnam.

CP Exhibition since 1992, has organized Vietnam Electricity and Coal Expo in Hanoi and Saigon by turns. CP Exhibition was established in Hong Kong in 1976 and has representatives in Beijing, Vietnam, and 20 other countries. In December 2007, the Vietnam 14th Electricity Conference and Expo 2007 was held successfully in Hanoi for over 16 countries or regions have participated, China, Korea, Thailand, Italy, Singapore, Poland, Russia, Australia, Germany, USA, UK, Taiwan, Czech Republic, Malaysia, Japan, The Netherlands and etc..., with speakers from Ministry of Industry and Trade, The Electricity of Vietnam (EVN), The Vietnam National Coal and Mineral Industries Group (Vinacomin), Vietnam Atomic Energy Commission (VAEC) and PetroVietnam Power Corp (PV Power).



Deputy Prime Minister Hoang Trung Hai visited 2007 Energy Forum & Exhibition

VIEPromotion organized the Vietnam International Energy Forum and Exhibition on November 2007 focused on energy development in Vietnam, and was held at the National Convention Center (NCC) in Hanoi. Attended the opening ceremony was members of the Central Committee of the Party and Deputy Prime Minister Hoang Trung Hai.



APEC leaders in front of NCC

NATIONAL CONVENTION CENTER (NCC) in HANOI

NCC is the largest convention center in Vietnam and has been designed by a German architect. It is a 60,000 sq m area in the center of Tu Liem district with a 5,000 sq m space to cater many of the largest conferences and exhibitions. This is also a venue that was dedicated to the 14th Asia-Pacific Economic Cooperation (APEC) summit (2006), that took place under the theme, "Towards a Dynamic Community for Sustainable Development and Prosperity." Among the twenty-one leaders and presidents from Australia, Brunei, Canada, Chile, China, Hong Kong S.A.R, Indonesia, Japan, Republic of Korea, Malaysia, Mexico, New Zealand, Papua New Guinea, Peru, Philippines, Russia, Singapore, Thailand, Taiwan, United States, Vietnam.

Vietnam Energy Forum and Exhibition is supported by five major organizations in Vietnam:

Ministry of Industry and Trade (MoIT) is government agency in charge of performing the state management functions of industry development, trade, and public service.

The Electricity of Vietnam (EVN) is a state-owned corporation established in 1995. It is engaged in generation, transmission and distribution of electricity in the whole country.

The Vietnam National Coal and Mineral Industries Group (Vinacomin) is the parent company of around 30 coal companies, operating in both open-cast and underground mines. The estimated 2007 coal production is 37 millions tonnes and annual output of 3-4 millions tonnes in power generation plants and also operated other hydro-and thermal power plants.

Vietnam Atomic Energy Commission (VAEC) is a State body has the following main functions and duties to formulate directions, strategies, planning and plans for research and development in the field of atomic energy in Vietnam and undertake international co-operation in the field of atomic energy.

PetroVietnam Power Corp (PV Power) is a subsidiary of the Vietnam Oil and Gas Group (PetroVietnam) has committed itself to accelerating investment in the construction of power plants to meet the increasing domestic demand for power and set a target of total capacity of 6,550 MW by 2015.

两大主办单位联合呈现

2008 越南国际能源论坛暨展览会由香港华进有限公司与越南 VIEPromotion 联合主办，于越南国家会议中心 (NCC) 举行。

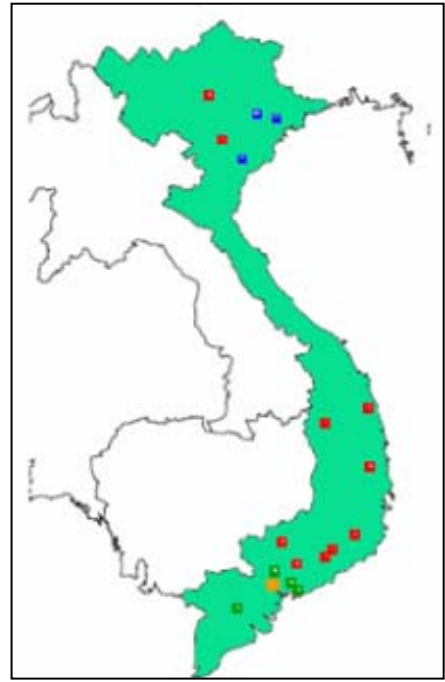
华进有限公司 自1992年起在越南河内与胡志明市轮流举办越南电力及煤炭展览会。华进公司成立于1976年，在北京、越南及世界20个国家地区设有代表处。2007年12月，第14届越南电力会议暨展览会于越南河内成功举办，与会者及参展商来自中国、韩国、泰国、意大利、新加坡、波兰、俄罗斯、澳大利亚、德国、美国、英国、台湾、捷克、马来西亚、日本、荷兰等超过16个国家及地区。大会讲演者包括来自越南工业及贸易部、越南电力公司 (EVN)、越南国家煤炭及矿业集团 (Vinacomin)、越南原子能委员会 (VAEC) 及越南国家石油公司能源集团 (PV Power) 的代表。

VIEPromotion 于2007年11月于越南国家会议中心 (NCC) 举办越南国际能源论坛暨展览会，主要聚焦于越南能源业发展。与会嘉宾包括共产党中央委员会委员、国家副总理黄忠海 (Hoang Trung Hai)。

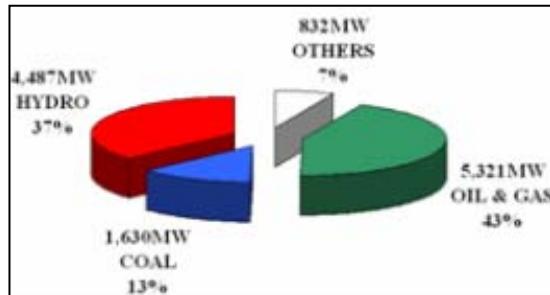
越南国家会议中心 NCC 地处河内市慈廉县中心，占地6万平方米，5000平方米场地可承接各类大型会议及展览，由德国建筑师设计，是越南最大的会议中心。中心是为迎接2006年第14届亚太经济合作组织峰会而建，峰会的主题为“走向充满活力的大家庭，实现可持续发展与繁荣”。与会者包括澳大利亚、文莱、加拿大、智利、中国、中国香港、印尼、日本、南韩、马来西亚、墨西哥、新西兰、巴布亚新几内亚、秘鲁、菲律宾、俄罗斯、新加坡、泰国、台湾、美国、越南等21个国家地区的领导人。

VIETNAM ENERGY DEVELOPMENT & OPPORTUNITIES FOR INVESTORS

Vietnam has been experiencing power shortages. This is due to the rapid development of multiple industries inside Vietnam, as well as rising electronics manufacturing due to increases in direct foreign investment – both of which require a lot of power and thus also impact the country’s competitiveness. To address the problem, the government has laid out a strategy to deregulate Vietnam’s power sector and diversify its power sources, to make the country less reliant on hydroelectric power. The following alternatives or developments are being considered or are already under way.



- Build more thermal power plants and locate these power plants close to Vietnam’s “material zones,” which are rich in natural resources. This effort includes coal-driven power plants (predominantly in Northern Vietnam, where coal is abundant) and combined cycle-gas turbine power plants (along the coastal and southern areas, which are rich in oil and gas). The government is also drafting a feasibility study to develop Vietnam’s first nuclear power plant (2,000 MW), which is expected to become operational after 2015.
- Create additional power using recycled materials and alternative energy sources, such as solar and wind power. These energy source types can be used predominantly in remote and highland areas where the national grid has yet to reach.



TYPE	No. POWER PLANTS	CAPACITY (MW)	TOTAL (%)
HYDRO	14	4,487	36.57
COAL	6	1,630	13.28
GAS	4	4,746	38.68
OIL	3	575	4.69
OTHERS	NA	832	6.78
TOTAL	27	12,270	100

- Continue to build more hydroelectric power plants at all technically feasible locations, with a design emphasis placed on mini-plants. Taking this into consideration, Vietnam’s total hydroelectric capacity should be around 15,000 MW by 2020.
- Potential project under consideration to purchase power from China, Laos, and Cambodia. Electricity of Vietnam (EVN) is constructing several power plants in Laos. The current power capacity result being routed to Vietnam is roughly 2,000 MW.

POWER DEVELOPMENT PLAN UNTIL 2025

	2006	2010	2015	2020	2025	
SALES	51,319	96,200	210,000	340,000	450,000	TWh
GENERATION	58,914	105,800	227,000	363,000	484,000	TWh
PEAK	10,187	18,000	38,000	60,000	79,000	MW
CAPACITY	12,270	25,700	50,000	78,000	100,000	MW
500kV	3,286	4,823	7,115	9,779	11,989	Km
	6,600	14,100	25,500	41,400	56,250	MVA
220kV	5,650	11,484	15,138	17,442	19,033	Km
	15,932	32,818	57,191	90,066	126,127	MVA
110kV	11,053	19,188	22,949	25,949	28,449	Km
	20,656	41,271	65,707	105,680	146,106	MVA

Vietnam badly needs to upgrade its infrastructure across many of the most obvious areas. Energy is probably the most important area that needs to be addressed. Power needs are rising at 15% per year and the huge reliance on hydro (56% of total generation capacity) leaves Vietnam vulnerable to blackouts. Sixty new plants are planned by 2020, to meet the rate of domestic demand growth. EVN generates 95% of the country’s power and, faced with such huge investment requirements, has begun selling off stakes in some facilities – starting with the 25% sale of Pha Lai, a 600-MW thermal power plant, in November 2005.