



辽宁省CDM项目现状与前景

Current Situation and Future Prospect of CDM Projects in Liaoning Province

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CDM国际趋势和动向

International Tendency for CDM

截止**2008年3月31日**，已经有**978**个**CDM**项目获得了**CDM**执行理事会的正式批准，得以注册；在**EB**注册项目数排前**4**名的国家是：

Until March 31st,2008, there are 978 CDM projects approved and registered by the Executive Board. The top 4 counties of Registered Projects in EB are as following:

- 印度：**322**个，排名第一。

India: 322, Number 1

- 中国：**174**个，排名第二。

China: 174,number 2

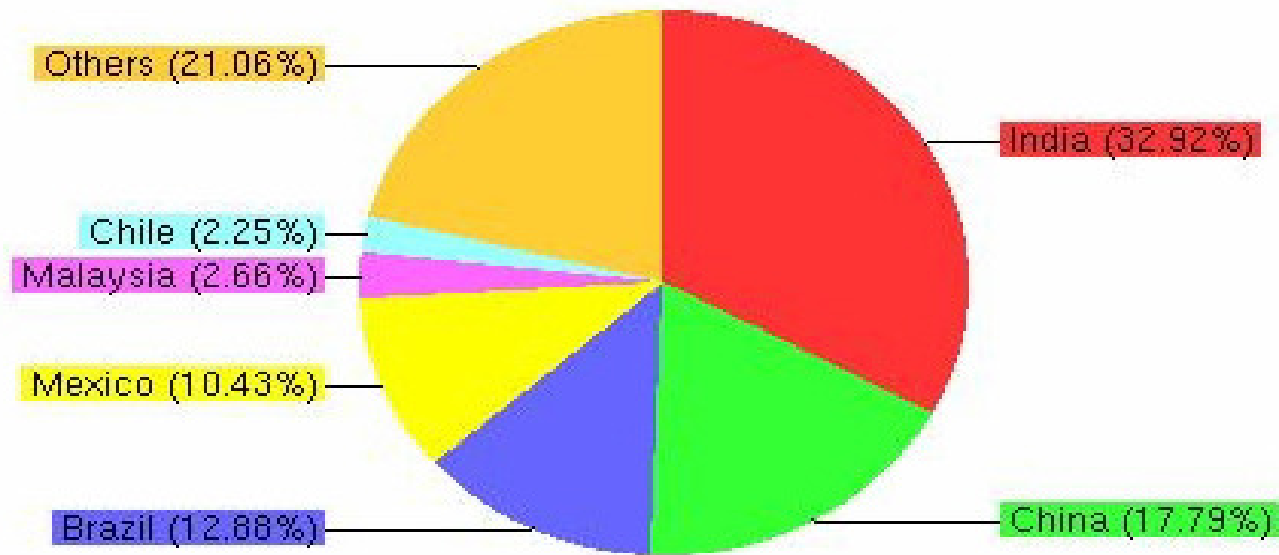
- 巴西：**126**个，巴西注册了世界第一个项目。

Brazil: 126,the first project was registered in Brazil.

- 墨西哥：**102**个。

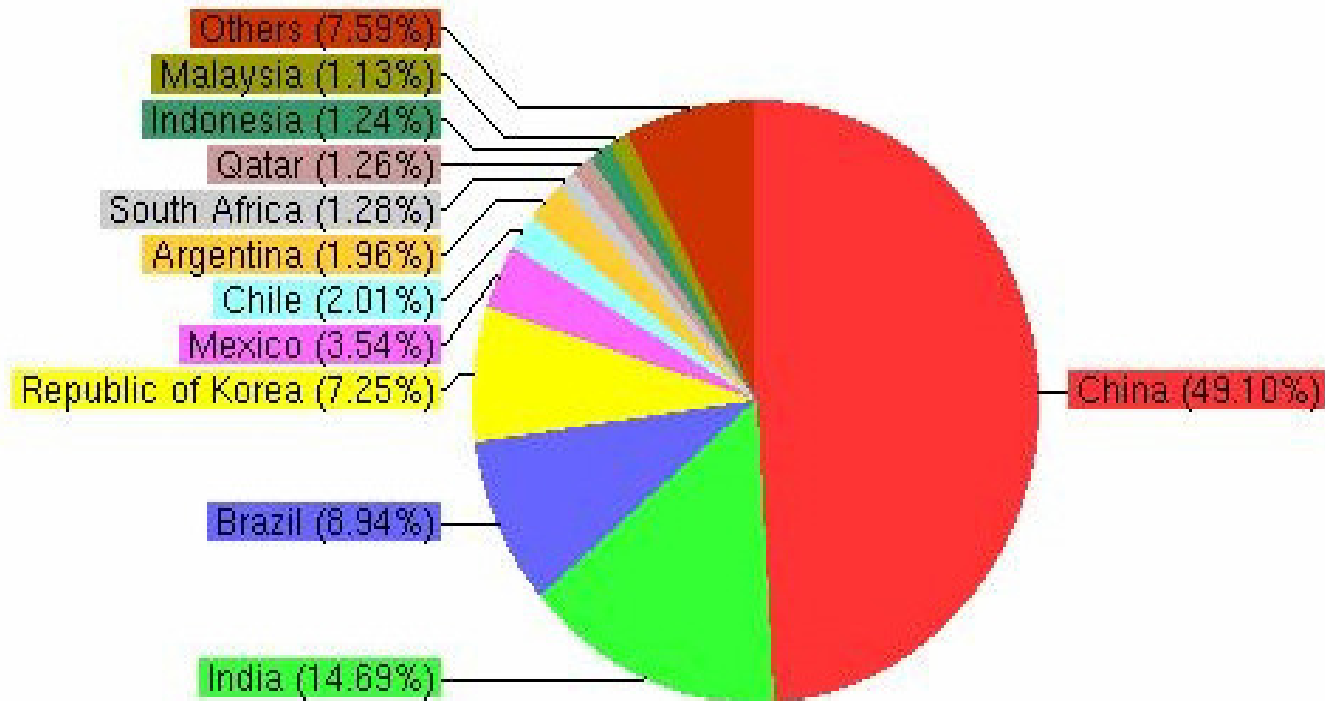
Mexico:102

Registered project activities by host party. Total: 978



<http://cdm.unfccc.int> (c) 31.03.2008 14:53

Expected average annual CERs from registered projects by host party. Total: 197,885,850



<http://cdm.unfccc.int> (c) 31.03.2008 14:53



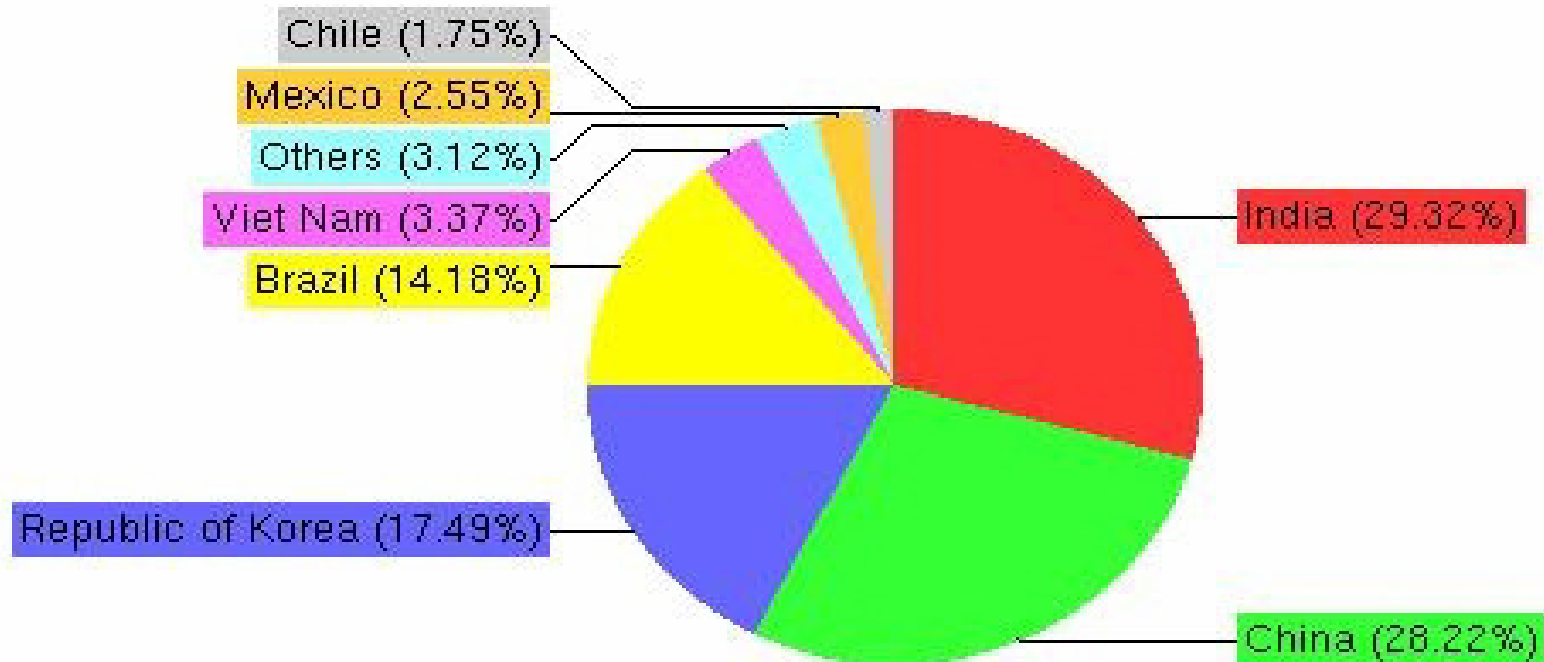
已经签发CER

Issued CER

- 我国目前有**40个CDM**项目共获得**63笔CERs**签发, 累计签发量为**37,595,405**吨, 占东道国CDM项目总签发量的**28.22%**。
- China now has 40 CDM projects, 63 issued CERs, and the accumulated issued amount is 37,595,405 tons, accounting for 28.22% of the total issued CDM projects.
- 辽宁彰武**24.65兆瓦**风力发电项目 **98,590吨**
- Zhang Wu (Liaoning province) **24.65MW wind power project : 98,590ts**
- 辽宁康平**24.65**风力发电项目 **114,039吨**
- Kang Ping (Liaoning province) **24.65MW wind power project: 114,039ts**

CERs issued by host party

CERs issued by host party. Total 133,223,610





CDM国际趋势和动向

International Tendency for CDM

- 今后具有供应潜力的国家：中国、印度、巴西、墨西哥、印尼等。
- **The countries with potential supply in future include: China, India, Brazil, Mexico and Indonesia.**
- 截止**2008年2月29日**，我国已经得到国家批准的项目**1150**个。
- **By Feb.29 2008, 1150 projects in china has been certified by the national government.**

中国发改委批准项目类别

Types of Projects Approved by NDRC

CHINA

- 一、 新能源和可再生能源 new energy and renewable energy
 - 水电 hydropower
 - 风电 wind power
 - 生物质秸秆直燃发电 power generation from direct combustion of straw biomass
 - 生物质热电联产 heat & power cogeneration from biomass

- 二、 甲烷回收利用 Methane Recycling
 - 煤层气回收利用 coalbed methane recovery and utilization
 - 垃圾填埋气回收发电 power generation from landfill gas recovery
 - 垃圾焚烧发电 power generation from waste incineration
 - 垃圾堆肥甲烷气回收发电 power generation from methane gas Recovered from Waste composting
 - 养殖场粪污沼气化处理及发电 biogasification of livestock waste to generate power



中国发改委批准项目类别

Types of Projects Approved by NDRC CHINA

三、节能和提高能效 Energy Saving and Energy Efficiency

- 干法水泥低温余热发电
power generation from waste heat of dry cement at low-temperature
- 燃气热电冷联供工程
cold Linking of Gas Thermoelectricity
- 焦碳厂焦炉煤气发电
power generation from Coke oven gas in Coke plants
- 焦碳厂炼焦余热发电
Power generation from remaining heat of Coking in coke plants
- 发电厂焦炉废气余热发电
power generation from waste coke oven gas in Power plant

四、燃料替代 fuel alternation

- 电厂天然气发电
Power generation from Natural gas in power generation



中国发改委批准项目类别

五、化工行业 Chemical engineering

- HFC23分解 HFC23 Decomposition
- N2O分解 N2O Decomposition

六、农业 Agriculture

造林与再造林 afforestation and Reafforestation

七、钢铁行业 Steel and iron

- 干熄焦余热蒸汽发电 power generation from steam of CDQ waste heat
- 高炉煤气余热回收发电 waste heat recovery & power generation from blast furnace gas
- 高炉燃气蒸汽联合循环发电 circle power generation from combined fuel gas and steam in blast furnace
- 烧结低温余热回收发电 waste heat recovery & power generation from low-temperature sintering



辽宁开展CDM情况

CDM projects development in Liaoning

辽宁开展CDM情况

CDM projects development in Liaoning

Tab. GHG emission from main industries in Liaoning (2004) /Mil t-CO₂

Industry	solid fuel	liquid fuel	gas fuel	total
Steel	23.196	0.566	6.203	29.965
Cement				35.464
power				152.292
Non-point Source emission	13.341	0.003	0.187	13.531
Heating Boiler	39.397	5.747	16.333	61.477
Industrial Furnace	30.266	0.722	9.135	40.123
Traffic				18.018
TOTAL				346.871

辽宁开展CDM情况

CDM Execution in Liaoning

国家发改委批准的辽宁项目 **projects approved by NDRC**

- 辽宁康平**24.65MW**风力发电项目
Kangping (in Liaoning Province) 24.65MW wind power project
- 辽宁彰武**24.65MW**风力发电项目
Zhangwu(in Liaoning Province) 24.65MW wind power project
- 辽宁阜新煤矿区**CMM/CBM**利用项目
CMM/CBM utilization project s in Fuxin (in Liaoning Province) new mining area
- 中国石油天然气股份有限公司辽阳石化分公司**N2O**减排项目
N2O emission reduction projects of Liaoyang Petrochemical Company , China National Petroleum Co., Ltd.
- 辽宁昌图风电场项目
Changtu(in Liaoning Province) Wind power project
- 铁法矿区煤层气利用项目
coal bed methane unutilization project in tiefa mining area (in Liaoning Province)
- 辽宁桓仁牛毛大山**24.65MW**风力发电场
Huanren niu Mao dashan (in Liaoning Province) 24.65MW Wind power project
- 辽宁兴城海滨风力发电项目
Xingcheng (in Liaoning province) wind power project at seaside

国家发改委批准的辽宁项目

CDM Projects approved by NDRC in Liaoning

- 鞍山钢铁集团公司（鞍山）高炉煤气燃气蒸汽联合循环发电项目
project of circle power generation from combined coal gas, fuel gas and steam in blast furnace by Anshan Steel Group Co.(in Anshan)
- 鞍山钢铁集团公司（营口）高炉煤气燃气蒸汽联合循环发电项目
project of circle power generation from combined coal gas, fuel gas and steam in blast furnace by Anshan Steel Group Co.(in Yingkou)
- 鞍山钢铁集团公司（营口）干熄焦发电项目
project of power generation from dry quenching by Anshan Steel Group Co.(in Yingkou)
- 鞍山钢铁集团公司（鞍山）干熄焦发电项目
Pproject of power generation from dry quenching by Anshan Steel Group Co.(in Anshan)
- 鞍山钢铁集团公司（鞍山）高炉煤气压差透平发电（TRT）项目
blast furnace top gas recovery turbine unit (TRT) project by Anshan Steel Group Co.(in Anshan)
- 鞍山钢铁集团公司（营口）高炉煤气压差透平发电（TRT）项目
furnace top gas recovery turbine unit (TRT) project by Anshan Steel Group Co.(Yingkou)
- 辽宁黑山生物质能发电项目
project of power generation from biomass in Heishan, Liaoning Province
- 辽宁昌图泉头风电场
Quantufeng wind power plant in Changtu Liaoning Province

国家发改委批准的辽宁项目

CDM Projects approved by NDRC in Liaoning

- 沈阳法库望海寺风电项目
Wanghaisi wind power project in Faku, Shenyang
- 辽宁太子河寨东、迎水寺、付家和威宁**15MW**小水电打捆项目
15MW small hydropower packaged project in east of Taizi River, Yingshuisi, Fujia and Weining, Liaoning Province
- 辽宁凌海南小柳风力发电项目
Xiaoliu wind power project in Linghainan, Liaoning Province
- 调兵山风电场新建工程项目
newly built wind power project in Diaobingshan
- 辽宁康平富饶山风电项目
Furaoshan wind power project in Kangping, Liaoning Province
- 沈阳大辛垃圾填埋气发电项目
Power generation from Daxin landfill gas in SHENYANG, Liaoning Province
- 辽宁兴城刘台子风力发电项目
Liutaizi wind power project in Xingcheng, Liaoning Province
- 沈阳老虎冲垃圾填埋沼气发电项目
Power generation from Laohuchong landfill gas in SHENYANG, Liaoning Province

国家发改委批准的辽宁项目

CDM Projects approved by NDRC in Liaoning province

- 大连天瑞水泥**18MW** 低温余热发电项目

power generation from Tianrui Cement waste heat at low-temperature (18 MW),

Dalian

- 铁岭铁新水泥余热发电项目

Power generation from Tiexin cement waste heat in Tieling

- 辽宁阜新高山子**100.5** 兆瓦风电项目

Gaoshanzi wind power project in Fuxin (100.5MW), Liaoning Province

- 辽宁北票北塔子**I** 风电项目

Beitazi wind power project in Beipiao, Liaoning Province

辽宁省成功注册项目

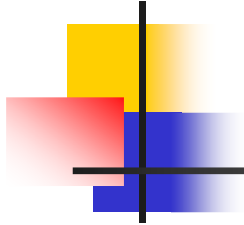
Registered Projects in Liaoning Province

- 中国石油天然气股份有限公司辽阳石化分公司
N2O减排项目 **2007.11.30**
N2O emission reduction project by Liaoyang Petrochemical Company, China National Petroleum Co. Ltd., December 30st,2007
- 辽宁昌图风电场项目 **2007.04.16**
Changtu wind power plant project in Liaoning, April 16th, 2007
- 辽宁彰武**24.65**兆瓦风力发电项目
2006.10.13
Zhangwu(in Liaoning Province) 24.65MW wind power project , October 13th,2006
- 辽宁康平**24.65**风力发电项目 **2006.10.13**
Kangping (in Liaoning Province) 24.65MW wind power project, October 13th, 2006

辽宁有潜力项目领域

Fields with Project Potential in Liaoning Province

- 风电 wind power
- 水电 hydropower
- 干法水泥低温余热发电 power generation from waste heat of dry cement at low-temperature
- 垃圾填埋气回收发电 power generation from landfill gas recovery
- 垃圾焚烧发电 power generation from waste incineration
- 养殖场粪污沼气化处理及发电 biogasification of livestock waste to generate power
- 生物质秸秆直燃发电 power generation from direct combustion of straw Biomass
- 煤层气回收利用 coalbed methane recovery and utilization
- 焦炭厂炼焦余热发电 power generation from remaining heat of coking in coke plants
- 石化企业余热利用 waste heat utilization by petrochemical corporation
- 钢铁企业余热发电 power generation from waste heat by steel corporation



Thanks

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