



Environment Regulation to EMM Enterprises

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- Effects of New Environment Protection Requirements on EMM Industry during the 12th "Five-Year" Period
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Treatment Situation of Environment Protection in EMM Industry

Primary coverage:

- Review of National Special Efforts for Environment protection in EMM industry, which organized by MEP in 2009 and 2010
- Review of environment comprehensive improvement of EMM industry concentrated area since 2009

Background of National Special Efforts for Environment Protection in EMM Industry

- Minister Zhou Shengxian delivered important speech in working conference on environment comprehensive improvement of EMM industry concentrated area in April 2009
- Promote fair competition and prevent pollution source transportation

Process of National Special Efforts for Environment Protection in EMM Industry

- 2009.4 Issued the notice. (No.66 [2009])
- 2009.4-6 Local government accomplished checkup
- 2009.9 appropriated supervision center to supervise checkup work, and notified the result. (No.126 [2009])
- 2009.10 issued supervisory notices to eight provinces(cities or areas) in which existed serious problems. (No.68- 75 [2009])



Process of National Special Efforts

for Environment Protection in EMM Industry

- 2009.12 Appropriated supervision center to supervise rectification and improvement .(No.44 [2009])
- 2009.6-12 Local government accomplished rectification and improvement
- 2010.3 Issued supervisory notices to three provinces whose rectification and improvement efforts is not success. (No.8- 10 [2010])

Process of National Special Efforts

for Environment Protection in EMM Industry

- 2010.5 Carried out supervising work after special enforcement. (No.9 [2010])
- 2010.10 Bulletin the problems which discovered in supervising work after special enforcement. (No.142[2010])
- 2010.10 Reported the cases in which exist behaviors of contravene industrial policy to Department of Industrial Policies of MIIT. (No.1101 [2010])



Outcome of National Special Efforts for Environment Protection in EMM Industry

- **Improved the technical merit, environment management ability of EMM industry by special enforcement in 2009, and promoted the upgrade of EMM industry structure.**
 - Input 340 million yuan, ordered 34 enterprises suspended to rectification;
 - Submit advice to local governments or relevant departments, in which advised to close down 24 production lines in violation of industrial policy, about 50 thousand tons capacity been eliminated;
 - Make up the environmental impact assessments or “three concurrences” for 16 enterprises.



Outcome of National Special Efforts for Environment Protection in EMM Industry

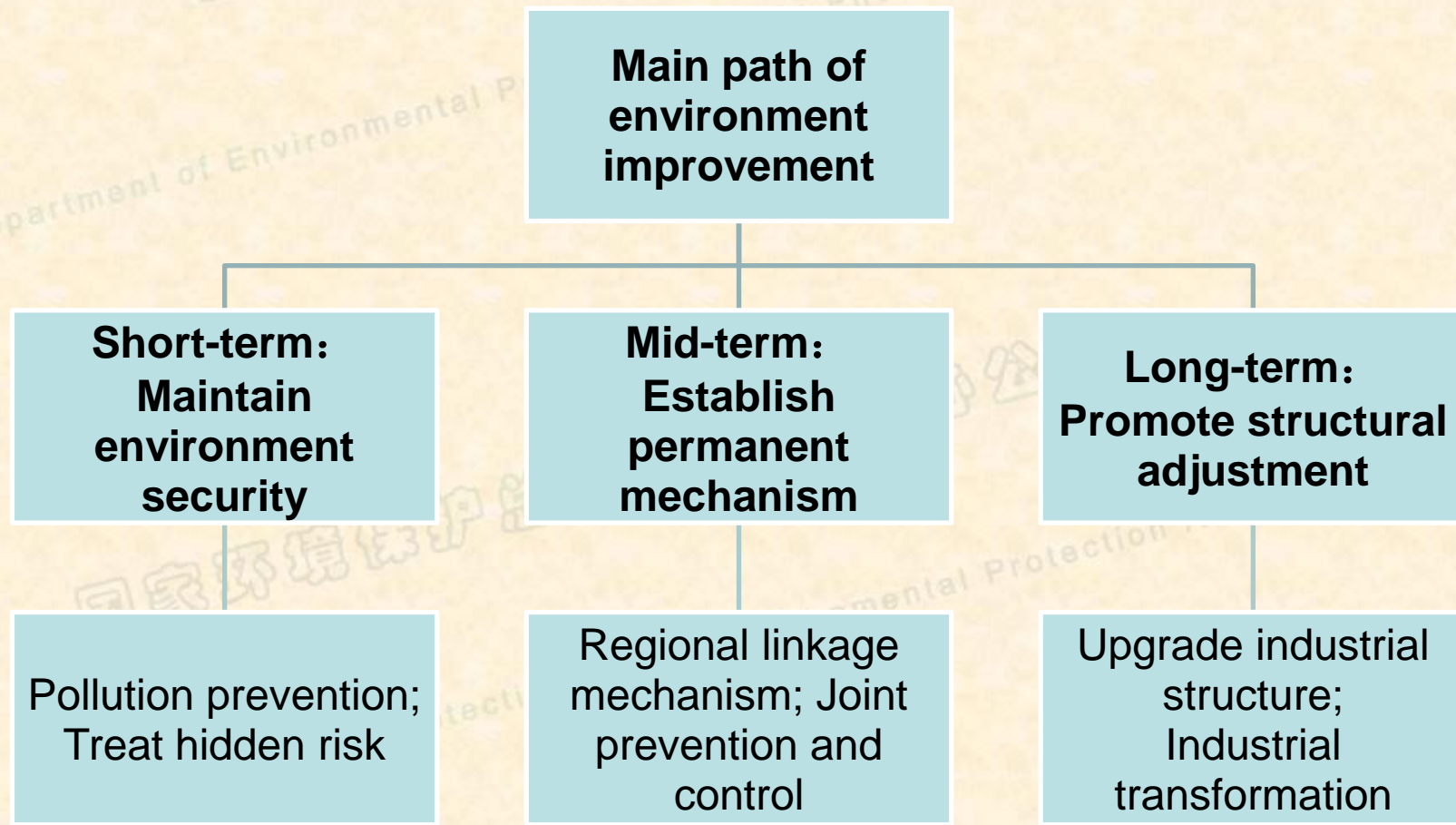
- Consolidated the result of special enforcement by supervising work in 2010, and reported problems which is relevant to industrial policy to MIIT.
 - Issued a notice of criticism that the rectifying and improving progress of Xiangxi Autonomous, Yongzhou, Huaihua, Xiangtan of Hunan province and Tongren area of Guizhou province didn't go well, and 12 enterprises break the pollution control regulation on a serious scale.
 - Situations of rectifying and improving: Up to March 2011, above 80 enterprises accomplished rectifying and improving by supervised the handling, call to account strictly, restricted Approve Regionally and order enterprise to correct before deadline.

Outcome of National Special Efforts for Environment Protection in EMM Industry

- Report the list to MIIT, in which include 48 production lines and above 200 synthesis baths of 51 enterprises that violated industrial policy.
- Department of Industrial Policies of MIIT commanded relevant local departments of industry and information technology to check the list, and relevant information verified.
- 21 enterprises of the list have already been or will be publish to the List of Enterprises which match the requires of <EMM Industry Entry Condition>. But 8 enterprises which have already been publish to the list would be remove from it, and 13 enterprises wouldn't be publish to the list, the Department of Industrial Policies of MIIT said.



Environment Improvement Presentation of “Manganese Triangle” area



Environment Improvement Presentation of “Manganese Triangle” area

- Maintain environment security
 - Organize check of the hidden trouble of environment security and prevent pollution
 - MEP have got about 260 million yuan financial support from MOF to improve environment of “Manganese Triangle”.(Most of the support had been used for environment security)
 - Bring 17 monitoring sections of "Manganese Triangle" into monthly monitoring scope of national environmental monitoring centre.





Environment Improvement Presentation of “Manganese Triangle” area

- Establish and optimize permanent mechanism of regular and regional linkage mechanisms
 - Three prefectural governments: Signed <framework for cooperation in joint improvement of regional environment in 'Manganese Triangle'>, set up mechanisms to protect regional environment and against regional environmental problem together by hold joint conference periodically, prevent pollution jointly, handle cross-bound environmental accident cooperatively.
 - Interior of environmental-protection system: Promptly investigate and treat violation of environmental laws by establish monitoring information notification mechanism to promote mutual cooperation, communication between upstream and downstream departments of environment-protection system, and between supervisory departments.

Effects of New Environment Protection requirements on EMM Industry during the 12th "Five-Year" Period

New pressures:

- Stricter industrial policies;
- Pressures of emission-reduction from 12th “Five-Year” plan;
- Pressures of prevention and treatment heavy metals pollution.



- Stricter industrial policies will accelerate wash out of backward productivity

Entry Conditions of EMM Industry (Amended in 2008)

- **Newly or broadened** EMM projects: Capacity of single product line should achieve or above 10 thousand tons per year; Total capacity of single enterprise should achieve or above 30 thousand tons per year; effective volume of synthesis baths should be not less than 250 m³.
- **Incumbent** of EMM Industry: single product line(one transformer) whose capacity is no more than 4 thousand tons per year or effective volume of synthesis baths is less than 150 m³ must be eliminated according to law.
- Environmental impact assessments of Newly or broadened EMM Projects should be examined and endorsed by environmental administration at or **above provincial level**.



Notice of MIIT(No. 122 [2010])

Guidance list of manufacturing technique equipments and productions be eliminated of some industry (edition in 2010)

- 44. Plate and frame type or box type first press filter be used for production of EMM, except high-pressure diaphragm filter. (eliminated before 2011)
- 45. Rectifier whose power is not above 5 thousand kilovolt ampere, and synthesis bath whose volume capacity is not above 150 cubic meter, be used for production of EMM. (eliminated before 2012)
- 46. Rectifier whose power is above 5 thousand kilovolt ampere but not above 6 thousand kilovolt ampere, and synthesis bath whose volume capacity is above 150 cubic meter but not above 170 cubic meter, be used for production of EMM. (eliminated before 2015)

New Requirements of Emission Reduction in 12th plan

- Binding indicators of pollutant emission reduction in 11th "Five-year" plan: COD, sulfur dioxide.
- The number of binding indicators of pollutant emission reduction in 12th "Five-year" plan has increased to 4. These indicators are COD, sulfur dioxide, ammonia nitrogen and nitrogen oxides. The Fresh one - **ammonia nitrogen emission reduction indicator** brings new pressure to EMM enterprise.
- The determinate task of emission reduction in 2011 is that discharge amount of each major pollutant which is mentioned above decrease 1.5%.

Pressure from Prevention and Treatment of Heavy Metal Pollution

- Premier Wen Jiabao and vice premier Li Keqiang has been paying close attention to heavy metal pollution, and give the instructions that the pollution would effect the overall situation. Minister Zhou Shengxian also hammers the problem to be resolved, and he said heavy metal pollution prevention was the most important thing of environmental protection.
- On the 7th of the first lunar month of 2011, State Council confirmed <12th Five-Year Plan of Heavy Metal Pollution Prevention and Treatment>. It's the first special plan of 12th five-year which was confirmed by State Council. The rank of confirm fully demonstrated the importance of prevention and treatment of heavy metal pollution.





<12th Five-Year Plan of Heavy Metal Pollution Prevention and Treatment>

■ Emphasis object of prevent and control:

-First species is 5 kinds of heavy pollution metals(metalloids) with high toxicity: lead, mercury, cadmium, **chromium**, arsenic;

- Second species include thallium, **manganese**, bismuth, nickel, zinc, tin, copper, molybdenum and etc..

■ Emphasis object of relevant area:

- areas that concentrate heavy metal industries;

- areas that environmental quality is deteriorating sharply;

- 14 key provinces or areas where environment should be improved as soon as possible, such as **Hunan, Guangxi, Hubei, Sichuan, Yunnan, Shanxi** and etc..



<12th Five-Year Plan of Heavy Metal Pollution Prevention and Treatment>

■ Object of planning :

In the key areas, emission of emphasis heavy metal pollution should decrease **15%** compared with year 2007.

In other areas, emission of emphasis heavy metal pollution should not above the level of year 2007.

■ Clear responsibilities :

Effects of prevent and control heavy metal pollution has become a evaluating indicator of local economic and social development, and the indicator is important content of performance assessment of leading cadre.



Opportunities Produced by the <Plan>

■ Technical and financial support

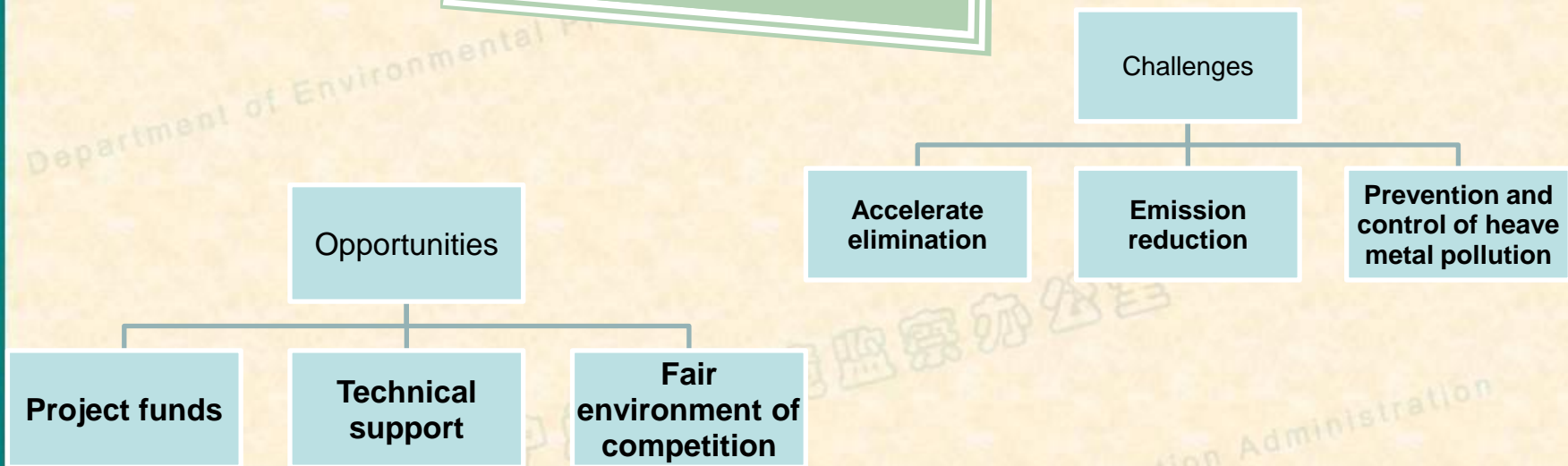
---<plan> includes 7 kinds of heavy metal pollution prevention and treatment projects such as **control pollution source, eliminate backward production capability, emergency life support, technology demonstration, cleaner production, basic capacity building, solve the pollution problems left over by history** and etc..

--- Financial support have already been provided by MOF, and there will be **at least ten billion yuan** to be used for prevent or treat heavy metal pollution.

■ Improvement of environment of competition:

---Stricter restriction of the size and number of entries

--- Stricter environmental regulations



Opportunities > Challenge

Supervision Thought of Environment Protection for the Future

1. Further Adjustment of Structure

■ Current situation of EMM industrial structure

- According to incomplete statistics of 2010, China has a total of 180 EMM enterprises, total capacity of enterprises that have pass the examination and approval of environmental impact assessment is about 2.2 billion tons, the capacity which has been made is 2.02 billion tons. There are 70 small-scale enterprises, whose capacity is lower than 10 thousand tons. these enterprises account for 39% of the total number of EMM enterprises, and the amount capacity of small-scale enterprises is about 350 thousand tons, account for 17.3% of total capacity of EMM industry.



■ Serious production capacity surplus

Total capacity:

2.02 M tons

Amount capacity except
small-size enterprises:

1.67 M tons

Real output in 2009:

1.307 M tons

Structural Adjustment Thought

for the Future

- Eliminate backward production capability
 - According to entry condition be published in 2008 and public notice of MIIT in 2010, continue to find out backward production capability by inspection, and prepared for hand-off to other departments.
- Support industrial upgrade
 - Put special stress on the project application which submit by large scale enterprises.
 - Support reshuffle of enterprises and industrial upgrade in “manganese triangle” area, and actively guiding EMM industry of this area to grow stronger.

2. Continue to supervise the environment and enterprises' production after enforcement of the law

■ Keep law enforcement focused

- Heavy metal: Treatment/ disposal of chromate waste water, chromic slag
- Maintain environment security: Standardize improvement of manganese slag silo
- Emission of Major pollution meet standard: COD、 ammonia nitrogen

■ Promote law enforcement to be strict, reasonable and careful

- Put EMM industry on a key position in the supervision after environmental law enforcement
- Put <Guiding of Environmental inspection of EMM Industry> into full play





■ Clearly-determined enterprises' responsibilities

- According to the plan about heavy metal pollution, environmental administration will shut down the enterprises which is close to the source of drinking water; suspended the production of enterprises which haven't get environmental impact assessments and approval of "three concurrences", or haven't meet the standard and discharge over proof emissions, or have major potential hazard, and order the enterprises to rectify the problems, and shut down the one whose improvement is not effective. If one company had a poor environment protection record, environmental administration would not allow the company to go IPO in two years.

3. Improve service awareness, guide enterprises to comply with the law

- Institute regulations, guide company to comply with the law
 - 《Guide Book for EMM Enterprises to Comply with Environmental Protection Law》
 - 《Technical Policy for Pollution Prevention and Treatment of EMM Industry》
- Improve service awareness, remove difficulties and alleviate sufferings of enterprises
 - Formulate different policies for enterprises and make individual guidance
 - Collaborative inquiry for sustainable and profitable development road with low costs and emissions.





Thank you !