# China Europe Water Platform Governance Pillar

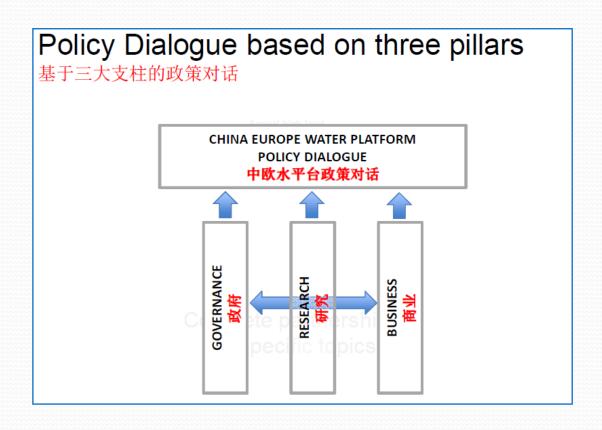
## Permitting Project Overview

Permitting Project Team:
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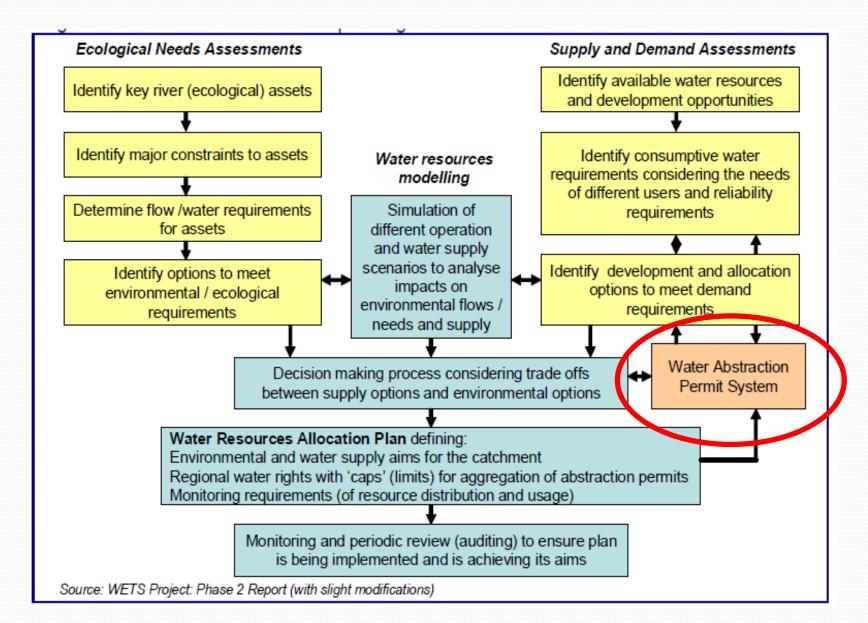
5 March 2014 · Beijing

#### Aim of Governance Pillar

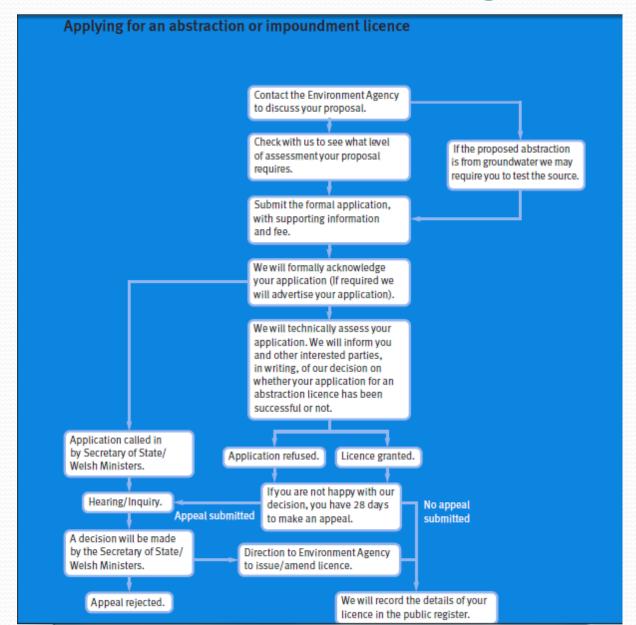
Exchange and share experience and good practice of EU and Chinese water governance



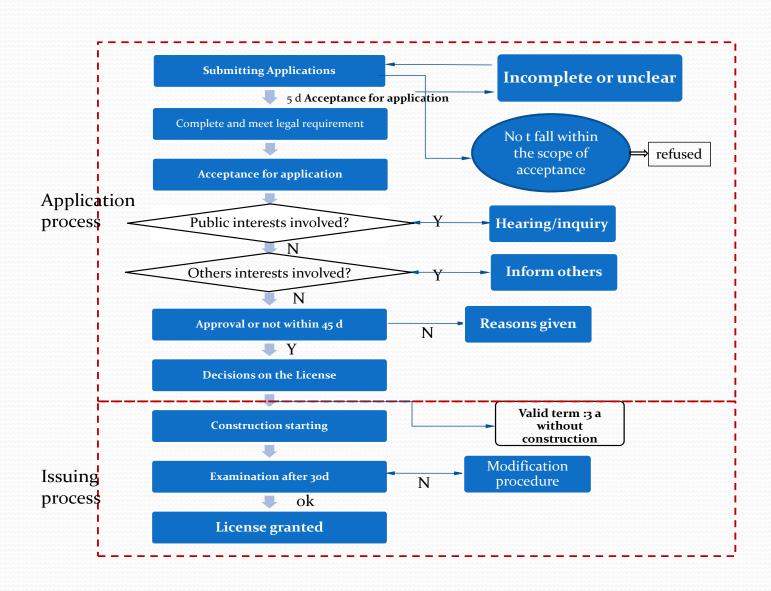
#### Permitting Context - Water resources allocation planning



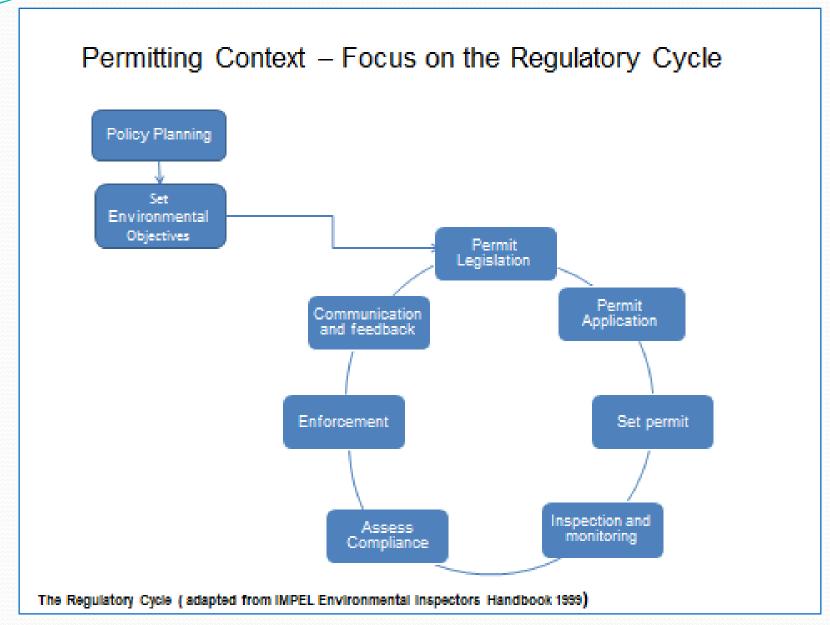
### **UK Water Abstraction Permitting Procedures**



### **China Water Abstraction Permitting Procedures**



#### Regulation and Behaviour Change



# Policy Planning

- China No1 Water Document (2011)
- Most Strict Water Resources Management System(2012)

#### China No1 Water Document

The most important water management initiative undertaken by China

- To accelerate water resources reform and development across China
- Recognises the need to manage water resources over a long period
- Provides funding of 4000 billion Yuan over 10 Years (= to €470 billion)

# Most Strict Water Resources Management System (Three Redlines Policy)

- ➤ Redline 1: Control total water consumption
- ➤ Redline 2:Control water efficiency
- ➤ Redline 3: Control water quality linking with water function zones

Water Permitting is relevant to Redline1,2,3.

# Set Environmental Objectives

- Surface water quality standard (GB 3838-2002)
- Regulation on Water Function Zones (2012)

#### Surface water quality standard (GB 3838-2002)

Grade I: Head waters, water for the State Nature Reserve;

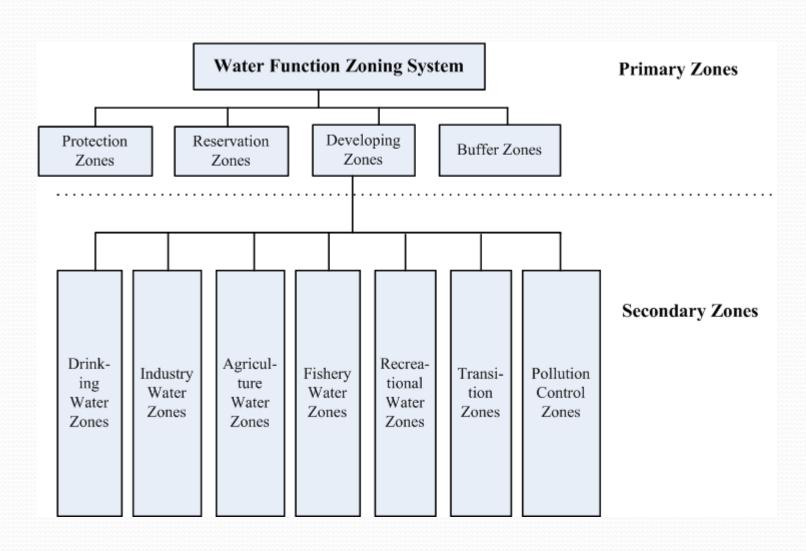
Grade II: Surface waters for centralized supply(domestic use, Level I protection), habitats for rare species, fish and shrimp production field, larvae feeding grounds, etc;

Grade III: Surface waters for centralized supply (domestic use, Level II protection), fish and shrimp wintering grounds, migration routes, aquaculture area, the swimming area;

Grade IV: Waters for general industrial use, recreational use (not for direct contact);

Grade V: Waters for agricultural use, landscape requirements.

#### Regulation on Water Function Zones (2012)



# **Permit Legislation**

- In general, current legislation is adequate to undertake the majority steps to implement reform in the short to medium term.
- The key issue now and in the medium term, is the inconsistent application to the law and the guidance and implementation that lies beneath it.
- Detailed guidelines on the format of permits, how to set permit conditions, monitor and enforce compliance is critical to bring about reform.

#### Set Permit

- Content of the permits is not strong and the permit conditions are not always linked to objectives set in the river.
- Permits must be consolidated and tightened to achieve primary river objectives in a phased manner.
- Permits must clearly set out the requirements for process quality assurance, monitoring and other key requirements needed to assure the safe operation of the permit, within the legal requirement.

# Inspection and Monitoring of Permits

Principles for the development of national guidance for monitoring permit compliance and the operation or regulated installation:

- Inspection frequency related to the risks that the installation poses and the vulnerability of the receiving environment.
- Permits should encourage water use efficiency and waste minimisation.
- Monitoring and inspection must be targeted to the parameters of maximum significance and analytical and quality assurance methods need to be consistent.
- •Operators must be encouraged to assume responsibility for their installation.
- Operator record keeping on plant performance and onward transmission of data to the regulator at prearranged frequency.
- •Competency training and awareness for operators and regulators.

## **Assess Compliance**

- Compliance assessment may be undertaken by the regulator or by the operator and reported to the regulator.
- The regulator shall audit performance on a risk basis.
- Open and frequent flow of information between regulator and the regulated is critical for transparency and accountability.
- Compliance information shall be also made available to stakeholders and the public.

## **Enforcement Options**

- Enforcement is currently one of the weakest links.
- Positive progress has been witnessed in China, for example, environment court (Guiyang), environment police (Hangzhou).

#### Communication

- Effective communication on performance against permit conditions, water resource condition, water saving and the state of the environment is essential to build trust and dialogue on options between the operator, the regulator and the key stakeholders.
- Improved information flow between Government Ministries and Provinces would improve decision making and consistency of regulation across and within river basins.
- Public access shall be improved.

### Progressive Environmental Improvement

#### Possible Approach

# Consolidate and set water environment improvement programme

Year 1	Year 5	Year 10	Year 15+
Consolidate existing quality and flow standards and increase monitoring	Maintain or increase environmental flow; Reduce pollution by 50%	Move to 'River Needs' standards based on flow and chemistry	Instigate and implement biological standards equivalent to EUWFD

#### Translate into permit conditions

Application No: WRWW1222

Licence Serial No: 28/39/14/354

lease quote the serial number in all correspondence about this licence



#### **FULL LICENCE TO ABSTRACT WATER**

The Environment Agency ("the Agency") grants this licence to:-

This licence authorises the licence holder to abstract water from the source of supply described in the Schedule of Conditions to this licence and subject to the provisions of that Schedule. The licence became effective on the date of issue shown below and shall remain in force until date of excity.

Signed Bal.

Date of Issue 10 hocugubas 2008

Karen Parker Date of Expiry: 31 March 2018 Environmental Planning Team Leader

Environment Agency Thames Region, West Area Red Kite House Howbery Park Wallingford **OX10 8BD** 

The licence should be kept safe and its existence disclosed on any sale of the property to which it relates. Please read the 'important notes' on the cover to this licence.

References to "the map" are to the map, which is attached to this licence. References to "the Agency" are to the Environment Agency or any successor body.

> Environment Act 1995 Water Resources Act 1991 as amended by the Water Act 2003 Water Resources (Abstraction and Impounding) Regulations 2008

Licence Serial No: 28/39/14/354

#### SCHEDULE OF CONDITIONS

E OF SUPPLY

OF ABSTRACTION

National Grid References

OF ABSTRACTION

of maximum output not exceeding 105.6 litres per second.

SE OF ABSTRACTION

servoir and use in wetland reserve.

OF ABSTRACTION

he months November to March Inclusive.

UM QUANTITY OF WATER TO BE ABSTRACTED DU SUBJECT TO CONDITION 9

ic metres per hour ubic metres per day cubic metres per year

any period of 60 consecutive minutes, a day means any period of 24 consecu ning on 1 April and ending on 31 March.



) 字[ 2009 ]第 00012号

取水权人名称:广东鼎湖山泉有限公司

取水地占, 鼎湖山老龙潭、天湖水源

取水方式: 引水

取 水 量: 年最大伍拾捌万立方米 取水用途: 生产桶(瓶)装饮用水

水源类型: 地表水

自 2009 年 7 月 13 日 至 2012 年 7 月 13日 法定代表人: 吴木生

退水地点: 广东省肇庆市鼎湖区鼎湖大道 31 园区

退水方式: 自流排放

退 水 量: 最大 4 万立方米/年

退水水质要求:必须按国家颁布标准排放污水



# 排放污染物许可证

编号:湘环(\*\*\*)字第(

法人代表: (1) 友

址: 未改市振兴路185子

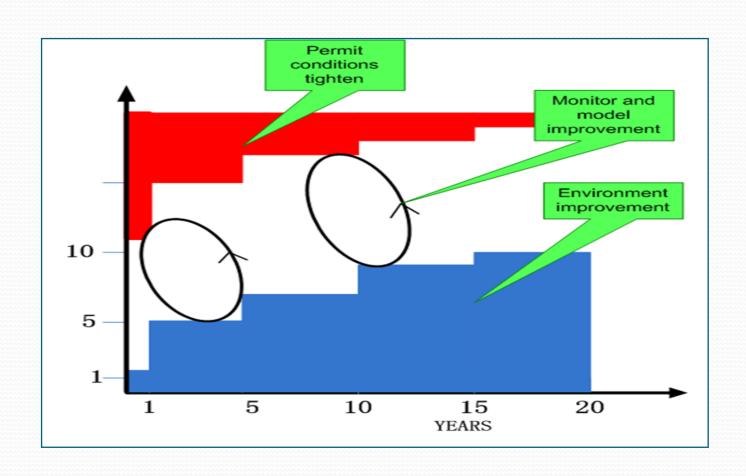
允许排放的污染物: 详见的本

允许排放污染物强度: (详见副本)

有效期: 20/0年11月4日至2011年11月4日

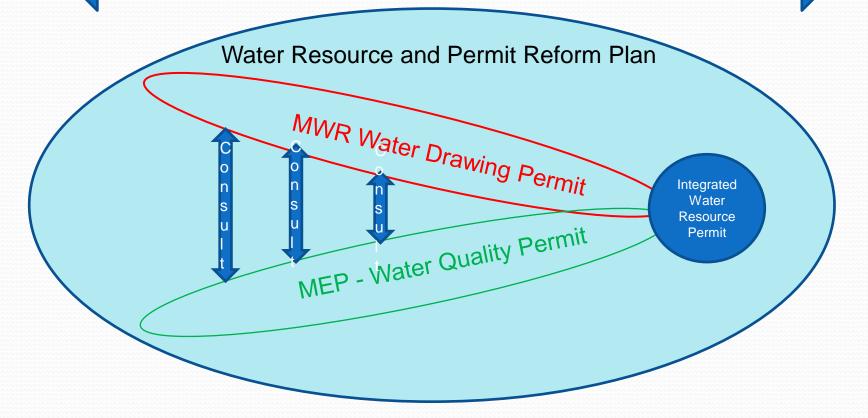
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# Permits drive water resource Improvement Programmes



#### Water Resource Permit Alignment and Integration

Change Project led by Competent Authority in Partnership



Progressive Convergence and Process Development

### Permitting Study – 2013 – Aims and report

- Share experience of water resource regulation and permitting
- Produce a report on current EU and Chinese permitting practice
- Provide options for future permit development and implementation in China

### Permitting Study - 2013 - Working Method

- Undertaken in close partnership with EU and Chinese Experts
- To widen knowledge exchange and thinking in China on water resource management
- To assist with training water resource managers in China
- Undertaken briefings and workshops with key water management groups in China
- Support the October CEWP-PDSF Study Assignment and Internship on these issues
- Close contact with Research and Business Pillar

# Permitting Study – 2013 – Inner Mongolia Training





# Permitting Study – 2013 – Assignment in Europe



#### Potential Future Work

- Pilot Study in association with some Provinces, already linked to study assignment
- Capacity building, training and dissemination
- Bring 'implementation' team of experts to work together
- Test and compare methods on a real examples