

Protection and Development of Deqing Freshwater Pearl Mussels Composite Fishery System

德清淡水珍珠复合养殖系统的保护与发展





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I. Basic Info Introduction



Deqing, in northern Zhejiang Province, is the earliest place in the world to carry out freshwater pearl mussels cultivation.

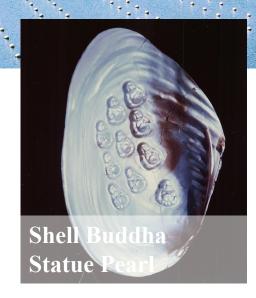
德清,位于浙江省北部, 是全球最早开展淡水珍珠人工培育的地方。



Deging Freshwater Pearl Mussels Composite Fishery System

德清淡水珍珠复合养殖系统







During the Southern Song Dynasty, Ye Jinyang invented the Shelled Pearl Mussel Cultivation Technique in Deqing, which began the history of human cultivation of freshwater pearls.

南宋时期,叶金扬在小山漾(德清)一带发明了"附壳珍珠养殖方法"。

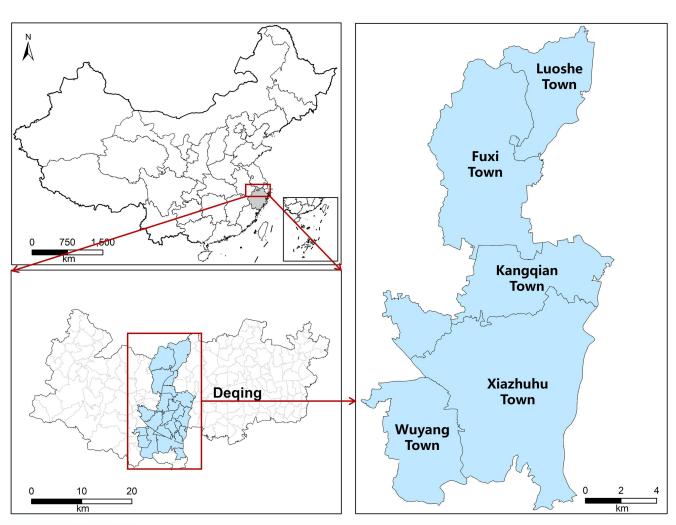
I. Basic Info Introduction

Range

核心范围

The system covers 5 towns and 23 villages.

系统位于浙江省北部,以德清县东部水网平原地区为系统范围,涉及5个乡镇,遗产面积达140km²。



Location Map 区位图

I. Basic Info Introduction



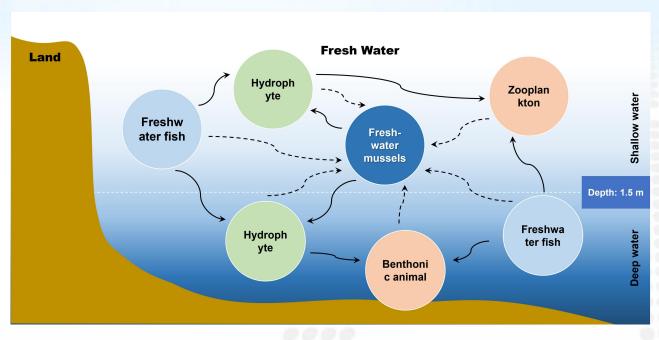


population

The permanent population of the heritage site is about 45,000 people 遗产地常住人口约4.5万人

II. Characteristics

An efficient Circular Ecosystem





"fish-mussel co-cultivation"composite system 鱼蚌混养 水中循环

an ecological agricultural system with an intricate patchwork of "yang (pools)-ponds-arable lands-forested areas-villages" "漾-基塘-耕地-林地-村庄" 镶嵌分布

II. Characteristics

Freshwater mussels and fish species repository in east Asia

东亚地区淡水蚌类和鱼类品种资源库:



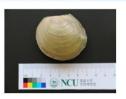
Hyriopsis cumingii



Cristaria plicata



Anodonta woodiana



Anodonta woodiana pacifica



Anodonta woodiana elliptica



Anodonta woodiana piscatorum



Lamprotula leai





Lamprotula rochechouarti



Unio douglasiae



Hyriopsis schlegeli



Unio continentalis



Unio pictorum



Unio persculpta



Anodonta fluminea



Lamprotula mansuyi

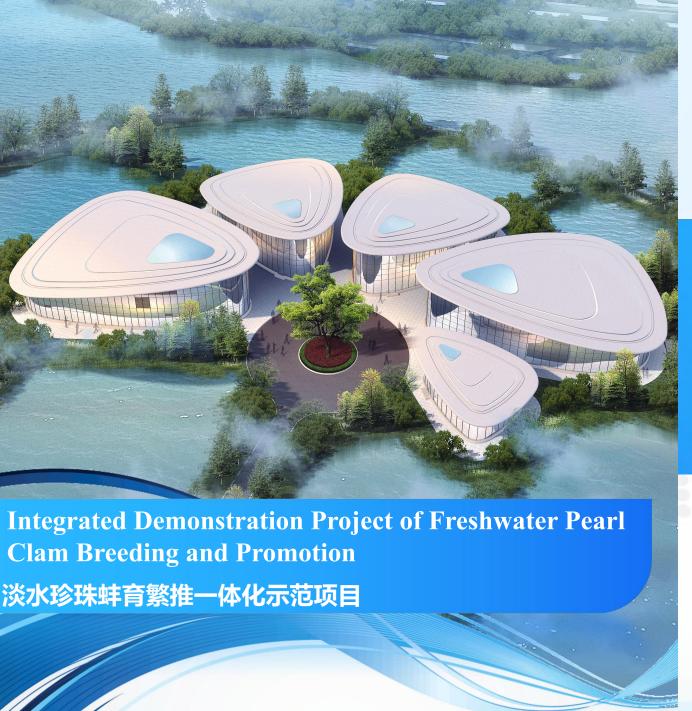
- more than 10 types of mussels that can be used for pearl cultivation, including Cristaria plicata and Hyriopsis cumingii. 当地有褶纹冠蚌和三角帆蚌等10余种育珠蚌类。
- More than 40 species of freshwater fish. 包含"四大家鱼"的40余种淡水鱼类。











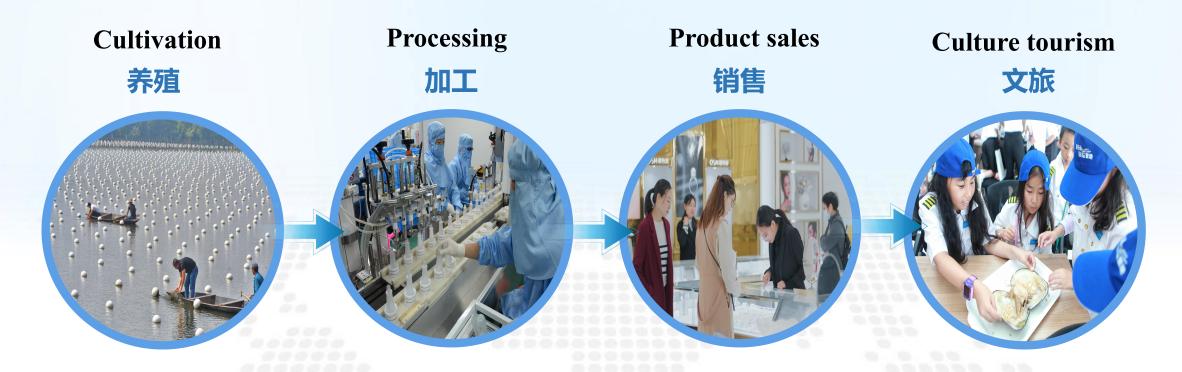
II. Characteristics



This project will protect the freshwater mollusk germplasm resources and contribute to the sustainable development of freshwater shellfish in China, the protection of biodiversity, and the harmonious development of nature and humans.

该项目将从源头上保护淡水贝类种质资源,在中国淡水贝类可持续发展、生物多样性保护以及自然与人类和谐发展方面发挥应有贡献。

III. Complete Pearl Industry Chain



Deqing has formed a comprehensive pearl industry chain including freshwater pearl cultivation, processing, sales, and cultural tourism.

德清形成了从河蚌养殖到护肤品、饰品加工,再到产品销售,文化与旅游产业的珍珠全产业链。

III. Complete Pearl Industry Chain



Nearly 3000 people directly engaged in the deep processing industry of freshwater pearls. nearly 10000 retail endpoints for products, more than 30000 jobs across its value chain. The annual production value of pearl farming and deep processing is over 7 billion yuan.

在浙江德清淡水珍珠复合养殖系统中,直接从事淡水珍珠深加工产业的从业人员近 3000人,产品零售终端近万个,上下游带动就业 3 万余人,珍珠养殖与深加工年产值超过 70 亿元。

The world's largest deep processing base for freshwater pearls

全球最大的淡水珍珠深加工基地



China stands as the global pinnacle in freshwater pearl production, commanding a staggering 90% of the worldwide yield. 中国是全球最大的淡水珍珠出产国,产量占全球珍珠产量的90%。

The total amount of deep processing pearls in Deqing is 100 tons, accounting for about 10% of China's national freshwater pearl yield.

遗产系统的珍珠深加工总量年均100吨,占全国淡水珍珠总产量的10%。

III. Complete Pearl Industry Chain

Created a Scientific and Technological innovation service platform



In the history of Deqing people's labor and daily life, they have formed rich and diverse pearl culture and fishery culture.

德清人民在长期的劳动和生活中,形成了 丰富多彩、种类繁多的珍珠文化和渔文化。



Ye Jinyang Statue



The dance of "Fisherman's Play with Clams"



Yue Opera



Pearl feast

Folk cultural activities 民俗文化活动









The pearl experiential education curriculum with the theme of agricultural heritage system is very popular, receiving at least 30,000 primary and secondary school students every year.



以农业文化遗产为主题的珍珠研学旅游非常火爆

01

Draw from traditional techniques to keep promoting ecological aquaculture.

借鉴传统技术, 大力发展生态养殖。 02

Extend the pearl industrial chain, and expand pearl's advanced processing.

延长珍珠及复合养殖的产业链, 拓展深加工产品。

03

Rely on rural leisure tourism to promote pearl culture.

依托农村休闲旅游, 弘扬珍珠文化。

