Appendix

Table S1. Environmental policies and projects related to wastewater management in China

	Tuble 51. Environmental policies and projects related to wastewater management in Crima
Year	Environmental regulations and projects
-1986	-Establishment of a standard for discharges of industrial wastewater, waste gas, and solid waste (1973)
	-Environmental Protection Law (trial in 1979)
	-Pollution levy regulation (1982)
	-Marine Environment Protection Law (1982, revised in 1999)
	-Law on the Prevention and Control of Water Pollution (1984, revised in 1996 and 2008)
1986- 1990	-The National Environmental Protection Agency was upgraded to an organization that reports directly to the state council (1988)
	-Implementation of the law on Water Pollution Prevention and Control (1989)
	-Environmental Protection Law (amended in 1989, revised in 2015)
1991- 1995	-The second national conference on the prevention and control of industrial pollution proposed the notion of "Three shifts" (1993)
	-China's Agenda 21 (1994) The notional Ninth Fine Year Plan for Engineers ental Protection (1996)
1996- 2000	-The national Ninth Five-Year Plan for Environmental Protection (1996) -NEPA was upgraded to the State Environmental Protection Administration at the
	ministerial level (1998) -Implementation of the People's Republic of China's law on water pollution prevention and control (2000)
2001- 2005	-The State Environmental Protection Administration issued interim administrative measures to regulate discharge licenses for key water pollutants in the Huai River and the Tai Lake Basin (2001)
	-The national Tenth Five-Year Plan for Environmental Protection (2001)
	-Law on the promotion of cleaner production (2003)
	-SEPA issued measures for preventing and controlling environmental pollution from unused hazardous chemicals (2005)
2006- 2010	-Eleventh Five-Year Plan set the national target for COD emissions reduction (2006)
	-Eleventh Five-Year Plan for the development of national water resources (2007)
	-Implementation of a chemical oxygen demand emissions trading system (2007)
	-Introduction of measures for sharing environmental information (2008)
	-Circular economy promotion law (2008)
2011- 2015	-Twelfth Five-Year Plan set the national target for ammonia nitrogen (NH ₃ -N) emissions reduction in wastewater (2011)
	-Regulation on Urban Drainage and Sewage Treatment (2013)
	-Water Pollution Prevention and Control Action Plan (Water Ten Plan) (2015)
	-New environmental protection law was enforced (2015)
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Source: The authors revised Table 1 from Fujii et al. [17].



Figure S1. Map of Mainland China

Note: Regions are defined as follows.

 $Eastern\ region:\ Beijing,\ Tianjin,\ Hebei,\ Shanghai,\ Jiangsu,\ Zhejiang,\ Fujian,\ Shandong,\ Guangdong,$

Hainan

Northeastern region: Liaoning, Jilin, Heilongjiang

Central region: Shanxi, Anhui, Jiangxi, Henan, Hubei, Hunan

Western region: Inner Mongolia, Guangxi, Chongqing, Sichuan, Guizhou, Yunnan, Tibet,

Shaanxi, Gansu, Qinghai, Ningxia, Xinjiang