

Constructing green small hydropower of eco-friendly environment, social harmony, standardized management, social harmony, standardized management and economic rationality

1. Title

Constructing green small hydropower of eco-friendly environment, social harmony, standardized management and economic rationality

2. Background

Small hydropower is an important livelihood water infrastructure and clean renewable energy. By the end of 2018, China had built more than 46,000 small hydropower stations with installed capacity of nearly 80.43 million kilowatts and an annual power generation of 234.5 billion kilowatt hours, accounting for about one-fourth of China's hydropower installed capacity and annual power generation. The completed small hydropower has contributed significantly to solving the problem of power consumption and promoting river governance, ecological improvement, environmental protection, local social and economic development in areas with the lack of electricity or no electricity, and has achieved remarkable results in addressing climate change, energy conservation, emission reduction and consumption reduction. At the same time, we should also see that there are still many weaknesses in the planning, design, construction, operation and management of small hydropower in some areas. The green development-oriented incentive and restraint mechanism needs to be further established. The development of green small hydropower is an important measure to actively respond to climate change and promote the construction of water ecological civilization.

3. Overview

The proposal is to vigorously develop small green hydropower stations by scientific planning and design, standardization of construction management, optimization of operation scheduling, governance and restoration of ecology, innovation of institutions and mechanisms, and the strengthening of government supervision and other measures to build small green hydropower stations that are ecologically friendly, socially harmonious, and economically rational.

4. Implementation

We should take advantage of the platform of “small hydropower and large stage”, promote the international standardization of small hydropower, develop research and application of green small hydropower technology, and hold forums and international training courses to promote the development of small hydropower in relevant countries and to solve the problem of tight power supply and reduce emission of greenhouse gases.

Ministry of Water Resources (MWR), the People's Republic of China