



# Operation and Maintenance of Tatay Hydropower Station in Cambodia

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Danjiangkou Hydropower Plant



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# 01

## Background of Tatay Project Department



# Background of Tatay Project Department



丹江口水力发电厂



## Background of Tatay Project Department



- The Danjiangkou water control project managed by Hanjiang group was put into operation in the 1970s.
- It is the water source of the Mid-route of South-to-North Water Transfer Project.





## Background of Tatay Project Department



- In 2021, the Hanjiang River basin experienced the worst flood in 40 years, and the Danjiangkou water control project played an important role in the flood control.

# 02

## Overview of Tatay Hydropower Station



# Overview of Tatay Hydropower Station



- Located on the Tatay River, Tatay hydropower station was put into operation in August 2014.





# Overview of Tatay Hydropower Station



**The view of Tatay reservoir**

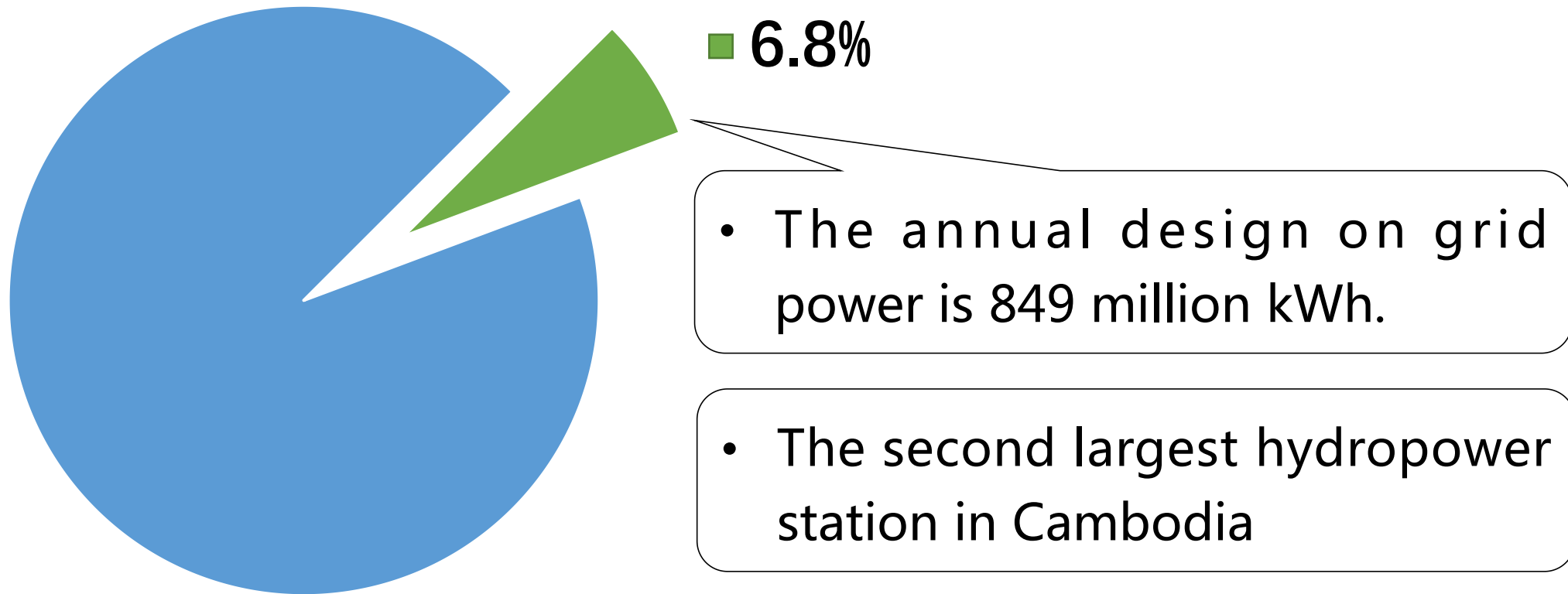


## Overview of Tatay Hydropower Station

Tatay Reservoir	total storage capacity	404 million m <sup>3</sup>
	regulating storage capacity	322 million m <sup>3</sup>
Tatay Hydropower Station	installed capacity	246 MW
	annual design power generation	858 million kWh



# Overview of Tatay Hydropower Station



**Total annual on grid electricity in Cambodia**

# 03

## Achievements Since 2020





## Achievements Since 2020



- Hanjiang Group won the bidding on September 24, 2019.
- Took over Tatay hydropower station from January 1, 2020.

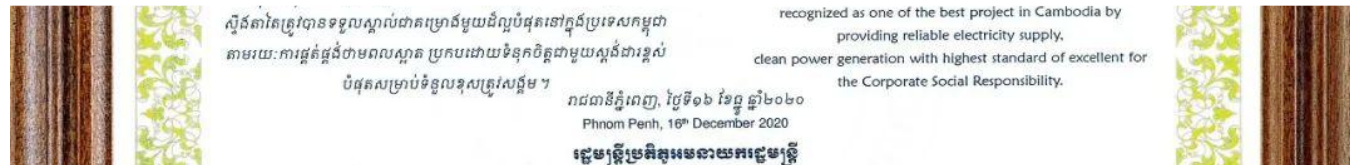


## Achievements Since 2020

- ◆ In 2020, the power generation reached 881 million kWh.



- ◆ The revenue from electricity sales reached \$65.6 million.



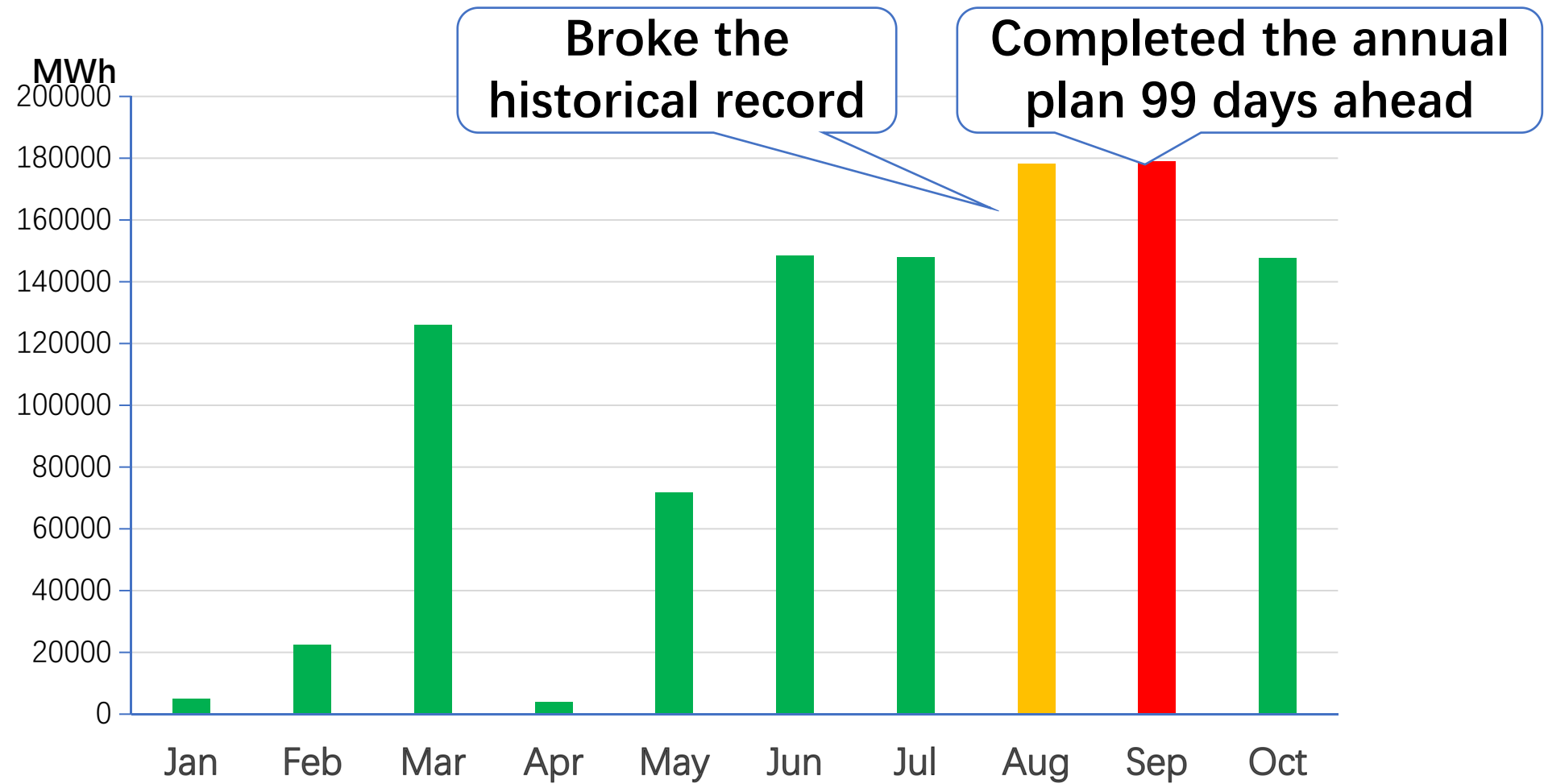
- ◆ The only hydropower station to generate power more than planned in Cambodia in 2020.



The "**Power Generation Excellence Award**" from EDC.



# Achievements Since 2020



Monthly Data of Power Generation,2021





## Achievements Since 2020



**Spillway of Tatay Hydropower Station**





## 2020-2021 Flood Season

Gate Opening/Closing	<b>169 times</b>
Flood Discharge Duration	<b>731.22 hours</b>
Surplus Water	<b>796 million m<sup>3</sup></b>

## 2020 Flood Season

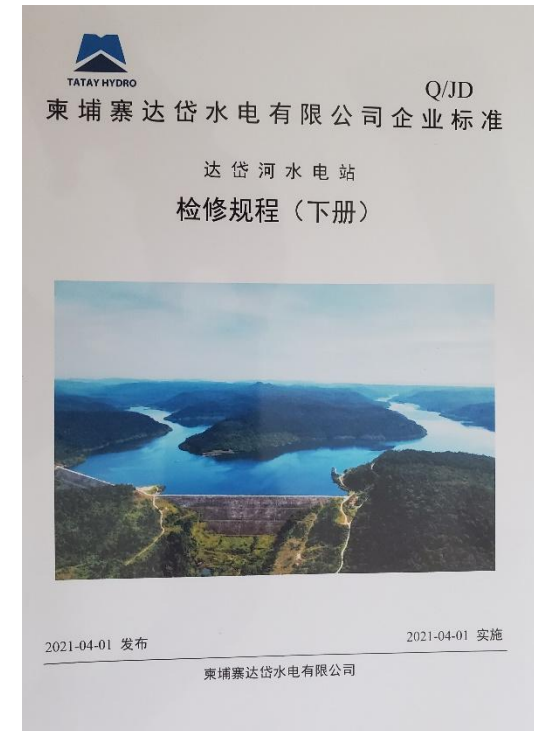
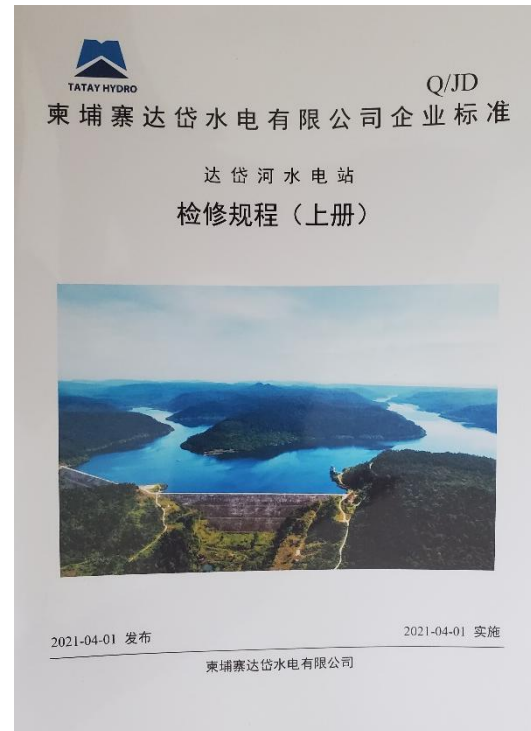
Flood 1	Flood Peak	942 m <sup>3</sup> /s
	Peak-clipping Rate	84%
Flood 2	Flood Peak	1212 m <sup>3</sup> /s
	Peak-clipping Rate	88%
Average Flood Volume	200 million m <sup>3</sup> /s	

# 04

## Operation & Maintenance Experience



## ◆ Precise, Efficient, Scientific Management



- **14** working standards & **62** operation rules



### ◆Innovation in Daily Work



- Before the flood season in May 2020, the spillway arc gate No. 2 hoist often error alarm...





# Operation & Maintenance Experience





### ◆ Personnel Structure

- “1+1>2”
- “AB Corner” system
- Overcome the shortage of personnel caused by the COVID-19

### ◆ Training Talents

- Invite experts to teach & bring in new tech
- Send technical personnel to learning & communication



- ◆ **"Belt and Road"**
- ◆ Do a good job in the operation and maintenance of Tatay Hydropower Station
- ◆ **"loyalty, clean, responsible, scientific, realistic & innovative"** water conservancy spirit



# Thanks !