# Jilin Urban Environmental Improvement Project

**Project Name:** Jilin Urban Environmental Improvement Project  
**Country:** People’s Republic of China  
**Status:** Closed  
**Type of Assistance:** Loan  
**Source of Funding:** Loan 2360-PRC: Jilin Urban Environmental Improvement Project  
**Amount:** US$ 100.00 million

## Strategic Agendas
- Environmentally sustainable growth  
- Inclusive economic growth

## Drivers of Change
- Governance and capacity development

## Sector / Subsector
- Water and other urban infrastructure and services - Urban sewerage - Urban solid waste management - Urban water supply

## Gender Equity and Mainstreaming
- Some gender elements

## Description
The Project will enhance the urban environment and improve public health and quality of life for urban residents in the cities of Changchun, and Yanji, by increasing wastewater coverage, enhancing solid waste management, improving the supply of potable water, and reducing air pollution. The outcome of the Project will be achieved by (i) increasing the wastewater treatment rate in Changchun, and in Yanji; (ii) providing a supply of reliable and high-quality potable water in Changchun and Yanji; (iii) improving the solid waste management facility in Changchun; (iv) reducing air pollution by shutting down 318 inefficient coal based boilers and replacing them with a central cogeneration plant in Yanji; (v) reducing the incidence of waterborne and respiratory diseases; (vi) increasing the efficiency and management capacity of the implementing agencies (Us); (vii) integrating approaches for basinwide pollution prevention and control; and (viii) improving cost recovery through a better tariff structure, with gradual increases to achieve full cost recovery.

The Project has three components and related capacity building, broken down into 7 subcomponents (outputs) and 33 activities. (i) Changchun city component of water supply, wastewater treatment and solid waste management. The Project will construct No. 5 wastewater treatment plant (WTP) with a capacity of 300,000 cubic meter per day, 25.5 kilometer (km) of water transmission pipelines, 58.15 km of distribution network, 2 pumping stations, Jingyue WWTP with a treatment capacity of 100,000 cubic meter per day, 53.46 km of sewer network, 34.2 km of stormwater pipelines, 36 km of wastewater interceptors, sanitary landfill facility with a capacity of 2,600 tons per day with a 10 year service life, and additional expected life of 12 years after expansion. (ii) Yanji city component of water supply, and wastewater treatment. The Project will construct a WTP with a capacity of 60,000 cubic meter per day, 10.1 km of raw water transmission pipelines, 9 km of distribution mains, 35.7 km of water distribution pipelines, effluent reuse WWTP with a capacity of 55,000 cubic meter per day, 16.1 km of water reuse transmission mains, and 40 km of sewer network. (iii) Yanji city component of central heating system. The Project will construct a central heating system in south Yanji city with 77 km of heating pipelines, 35 heat exchange stations, booster pumping station, central heating system in the north of Yanji city with 17.6 km of heating pipelines, 57 heat exchange stations and heating area of 9.3 million square meters.

The Project also provides for institutional capacity building for effective management including (i) providing training to strengthen organizational structure and staff resources to implement, operate and maintain the project components; (ii) strengthening management practices in human resources, finance, and corporate planning; and (iii) providing for managers and staff responsible for service delivery to ensure efficient implementation and sustainability of project benefits.

## Project Rationale and Linkage to Country/Regional Strategy
The Project will directly benefit an urban population of 3.2 million in Changchun and 420,400 in Yanji. Of the total direct beneficiary population, about 240,000 are classified as poor. The Project will benefit the urban residents through (i) improvements to water supply infrastructure, (ii) disposal of wastewater, (iii) better solid waste management facilities, and (iv) an improved energy efficient central heating system. The Project will contribute to poverty reduction through increased quality of life by reducing the incidence of waterborne and airborne diseases, and providing employment opportunities during construction and operation of the project facilities, with anticipated effects on economic development.

## Impact
Enhanced urban environment and improved public health and quality of life for the urban residents in the cities of Changchun and Yanji in Jilin Province.

## Project Outcome
**Description of Outcome**
Improved water supply, wastewater management, solid waste management, and efficient central heating services in Changchun and Yanji.

**Progress Toward Outcome**
Project physical completion was in December 2012. Actual implementation extended to June 2013, but there was no official loan extension. The loan account remained open until about 3 months after financial closing. The Project scope was as appraised. The PCR mission was fielded in May 2013.

## Implementation Progress
Description of Project Outputs

1. Component I: Improved and expanded water supply services, wastewater treatment, and SWM in Changchun city.
   1.1 Changchun No. 5 WTP with additional capacity and distribution mains is operational.
   1.2 Dongnan WWTP and associated sewers are operational.
   1.3 A well-functioning sanitary landfill facility is operational.
2. Component II: Improved and expanded water supply services, wastewater treatment in Yanji city.
   2.1 Upgraded and expanded Yanji WWTP and sewerage network are operational.
3. Component III: Improved Yanji central heating system.
   3.1 Yanji thermal power plant and networks in Henan district south of the Buerhatong River are operational.
   3.2 Yanji heating plant and secondary networks expanding to the north of the existing central heating network are operational.
4. Institutional capacity development for Project Management

Status of Implementation Progress (Outputs, Activities, and Issues)

Component 1: Changchun WS: all subcomponents were completed by the end of June 2013 and became operational in September 2013 (but there was a delay of one year in implementation)
Changchun WWTP: this subcomponent was scope was reduced to construction of Dongnan WWTP
Changchun solid waste: All the works and goods were completed in September 2011
Component 2: Yanji WAS - the WTP became operational in December 2012
Yanji WW - All facilities were completed; the wastewater reuse transmission mains and the sewer network were completed in April 2013; the effluent reuse WWTP was completed in November 2011 and became operational in July 213
Yanji Central Heating/Yanji Thermal power plant heating network - the facilities became operational since October 2011
Yanji central heating secondary networks: all facilities are operational since October 2009

Geographical Location

Changchun, Yanji Shi

Safeguard Categories

Environment A
Involuntary Resettlement A
Indigenous Peoples C

Summary of Environmental and Social Aspects

Environmental Aspects
Implementation of environmental requirements is generally in order according to the established institutional arrangements for internal monitoring, supervision, and reporting. The risk analysis and emergency plan that was developed to prevent the risk of accidental release of heavily concentrated leachage with high COD concentration was implemented safely, while the procurement of leachate treatment of equipment was delayed. The environmental responsibilities outlined in the EMP were largely fulfilled (though with slight delays)

Involuntary Resettlement
The Resettlement Plans for seven project components have been prepared in accordance with the PRC Land Administration Law (1998), the State Council Decision to Deepen Reform and Strictly Enforce Land Administration (2004) and ADB’s Involuntary Resettlement Policy to ensure that affected persons will be made better off (or at least not worse off) as a result of the Project. Overall the LAR has been implemented smoothly.

Indigenous Peoples
There are no negative impact on the minority population. The large Korean ethnic group will be better off with the Project.

Stakeholder Communication, Participation, and Consultation

During Project Design
Jilin Provincial Government, Changchun Municipal Government, Yanji Municipal Government, and the Implementing Agencies were involved in identifying and conceptualizing the Project. Preparation of the Project is being led by the Jilin Construction Department, with support from the Jilin Finance Bureau, Jilin Development and Reform Commission, the Changchun Municipal Government, the Yanji Municipal Government, and the Implementing Agencies. The public were consulted through environmental consultation workshops, household questionnaires and public hearing meetings.

During Project Implementation
Consistent consultations were implemented.

Business Opportunities

Consulting Services tbd
Procurement tbd

Responsible ADB Officer
Heckmann, Arnaud

Responsible ADB Department
East Asia Department

Responsible ADB Division
Urban and Social Sectors Division, EARD

Executing Agencies
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Timetable

Concept Clearance 17 May 2007
MRM 27 Jun 2007
Approval 29 Oct 2007
Last Review Mission -
PDS Creation Date 04 Mar 2006
Last PDS Update 30 Sep 2013

Loan 2360-PRC
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### Financing Plan

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### Status of Covenants

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### Project Information

- **Date Generated**: 17 June 2019

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