



## China, People's Republic of: Jilin Yanji Low-Carbon Climate-Resilient Urban Development Project

Project Name	Jilin Yanji Low-Carbon Climate-Resilient Urban Development Project		
Project Number	50322-002		
Country	China, People's Republic of		
Project Status	Proposed		
Project Type / Modality of Assistance	Loan		
Source of Funding / Amount	<b>Loan: Jilin Yangji Urban Development</b>		
	Ordinary capital resources		US\$ 130.00 million
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration		
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development		
Sector / Subsector	<b>Transport</b> - Urban public transport - Urban roads and traffic management <b>Water and other urban infrastructure and services</b> - Urban flood protection - Urban sanitation - Urban water supply		
Gender Equity and Mainstreaming	Effective gender mainstreaming		
Description	<p>Yanji City (Yanji) is located in the Yanbian Korean Autonomous Prefecture (YKAP) in the east of Jilin Province in the economically challenged northeast of the People's Republic of China (PRC), bordering the Democratic People's Republic of Korea (DPRK) to the southeast and the Russian Federation to the northeast. Yanji is an ancient city on the Bur-Hatong River, surrounded by hills, and its easternmost border is about 15 kilometers (km) from the Sea of Japan.</p> <p>Yanji's total population was 541,323 in 2015 (495,413 of which urban) with about 57% being ethnic Korean who are well integrated and living in harmony with Han Chinese. The total land area is 1,748.3 square kilometers (km<sup>2</sup>). The city's gross domestic product (GDP) was CNY 30.9 billion in 2015, and GDP per capita was CNY57,455 in 2015. The contributions to the GDP by main industry sectors are: agriculture (1.8% of GDP in 2015); manufacturing (41.6%), and the service industry (56.6%). The proposed project is timely and essential to address some of the city's severe development challenges including (i) economic dependency on few sectors with insufficient value added locally; (ii) poor urban livability due to inadequate urban infrastructure and services provision; and (iii) urban and river flooding and impacts of climate change which are key limitations to the city's sustainable development.</p>		

Project Rationale and Linkage to Country/Regional Strategy

Key development challenges. YKAP and Yanji are affected by the regional economic decline of the northeastern PRC, and relying mainly on tourism and associated services, processing of agricultural products, and logistics. YKAP and Yanji have natural attractions but their tourism potential is not utilized sufficiently. While there were about 8.7 million tourists in 2016 only 0.53 million were international visitors, mostly from the Republic of Korea (ROK), Japan, and the Russian Federation; and tourism infrastructure and service levels fall behind expectations. There are a few food processing factories, but the locally added value is far behind its potential. Yanji's logistics and trade with ROK and the Russian Federation is also very limited and suffers from access limitations, especially to markets and to sea transport, which relies on neighboring countries. The local economy does not provide adequate jobs especially for young professionals and women, and there was out-migration of qualified young-aged professionals to other regions.

The city suffers from inadequate urban infrastructure and provision of basic services that cause inconvenience and disruptions to daily life, especially affecting women, in areas of flood protection, stormwater management and drainage, water supply, wastewater management, urban roads and public transport. These urban infrastructure systems and related planning lack integration causing inefficiencies. While the city benefitted from a previous Asian Development Bank (ADB) loan, the above challenges remain. One of the key impacts of the completed ADB project was a significant improvement in air quality in Yanji due to the closure of about 700 inefficient coal-fired boilers.

Stormwater management. Flooding is a significant problem especially during the rainy season in June and July. River flooding, flash floods and waterlogging endangers lives, properties and livelihoods, and pose disturbances to traffic and public life. The combined sewer and drainage pipe system is dated, making it difficult to prevent waterlogging and provide adequate drainage during heavy summer rainstorms.

Water supply and wastewater management. The water supply system is old with leaking pipes and dysfunctional water meters. The associated sewer system is dated and in urgent need of rehabilitation or replacement. The tertiary treatment facility at the wastewater treatment plant for one stream was supported by the previous ADB project (footnote 2). The remaining treatment streams cannot meet the PRC's effluent standards, and there is an urgent need to upgrade the treatment process, and to rehabilitate or replace existing sewer pipes.

Urban roads and transport. The urban roads suffer from traffic congestion and key missing network links. Many sections of the road network and intersections face safety problems for vehicular traffic and people. There is a lack of safe bicycle lanes, sidewalks, and pedestrian crossings in many areas, especially affecting women. The public transport system is inefficient and inconvenient, and in need of upgrading and expansion into peripheral urban areas.

Strategic fit. The project will support the urban and economic development of a medium-sized city in the northeast region of the PRC, contributing to ADB's strategic support to the PRC's northeast revitalization and strengthen the subregion including four cities in East Heilongjiang just north of Yanji. Through its strategic and integrated approach it will support the (i) Thirteenth Five-Year plans of Jilin Province and Yanji City (2016 2020), (ii) PRC's National New-Type Urbanization Plan (2014 2020) aligning with Yanji's investment program as one of the PRC's pilot cities, and (iii) Yanji's urban and economic development master plan. The proposed project is included in ADB's country operations business plan for the PRC, 2018 2020 and is aligned with the (i) Midterm Review of Strategy 2020; (ii) country partnership strategy for the PRC, 2016 2020, supporting socially inclusive, environmentally sustainable, and economically competitive development; and (iii) urban and water operational plans, and environment operational directions.

Innovations and pilots. Key project innovations will include (i) hydrological and hydraulic modeling to provide input for flood risk management and drainage system assessment and system planning, which will be integrated with climate resilience and sponge city planning, effectively combining green and gray infrastructure; (ii) building institutional capacity for the integration of low-carbon climate-resilient urban planning and infrastructure planning, and operation and maintenance across various sectors, disciplines, and administrative departments to generate multiple benefits and efficiencies; (iii) sustainable urban transport planning including intermodal systems integrating public transport, non-motorized and motorized transport, and use of intelligent transport system applications; and (iv) sustainable tourism planning and integration with sponge city infrastructure and green open space system, which will provide multiple ecosystems services including recreational functions for residents and tourists.

Impact	Environmentally sustainable, low-carbon, climate-resilient, and green urban and economic development of Yanji City achieved
Outcome	Livability, environmental sustainability, and climate resilience in Yanji City improved
Outputs	Sponge city and climate-resilience plan completed, and infrastructure constructed Sustainable, low-carbon, and intelligent urban transport system implemented Water supply and wastewater management systems improved Capacity in low-carbon and climate-resilient urban infrastructure planning developed
Geographical Location	Yanji

**Safeguard Categories**

Environment	B
Involuntary Resettlement	A
Indigenous Peoples	B

## Summary of Environmental and Social Aspects

Environmental Aspects	Environmental safeguards due diligence will be carried out during TA implementation.
Involuntary Resettlement	Involuntary resettlement safeguards due diligence will be carried out during TA implementation.
Indigenous Peoples	Indigenous peoples safeguards due diligence will be carried out during TA implementation.

## Stakeholder Communication, Participation, and Consultation

During Project Design	Relevant agencies and stakeholders will be consulted during TA implementation.
During Project Implementation	Relevant agencies and stakeholders will be consulted during project implementation.

## Business Opportunities

Consulting Services	Individual consultants will be recruited based on the requirements of each technical assistance (TA) subproject in accordance with ADB's Procurement Policy (2017, as amended from time to time) International consultants: 12.5 person-months National consultants: 40.5 person-months
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Responsible ADB Officer	Rau, Stefan
Responsible ADB Department	East Asia Department
Responsible ADB Division	Urban and Social Sectors Division, EARD
Executing Agencies	<i>Yanji City Government 759 Henan Street, Yanji City, Jilin Province, China</i>

## Timetable

Concept Clearance	06 Jun 2018
Fact Finding	01 Feb 2019 to 28 Feb 2019
MRM	30 Apr 2019
Approval	-
Last Review Mission	-
Last PDS Update	21 Aug 2018

Project Page	<a href="https://www.adb.org/projects/50322-002/main">https://www.adb.org/projects/50322-002/main</a>
Request for Information	<a href="http://www.adb.org/forms/request-information-form?subject=50322-002">http://www.adb.org/forms/request-information-form?subject=50322-002</a>
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