ADB

India: Bengaluru Smart Energy Efficient Power Distribution Project

Project Name	Bengaluru Smart Energy Efficient Power Distribution Project		
Project Number	53192-001		
Country	India		
Project Status	Proposed		
Project Type / Modality of Assistance	Loan		
Source of Funding / Amount	Loan: Bengaluru Smart Energy Efficient Power Distribution Project		
	Ordinary capital resources US\$ 100.00 million		
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth		
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development		
Sector / Subsector	Energy - Electricity transmission and distribution		
Gender Equity and Mainstreaming	Some gender elements		
Description	Government program for the power distribution subsector. Building energy efficient distribution network is one of the climate mitigation strategies under India's Nationally Determined Contributions. The Ministry of Power promotes conversion of overhead distribution lines to underground lines and integration of information technology in power distribution system in urban areas to reduce the system losses under the Integrated Power Development Scheme. Building efficient urban infrastructure is a key provision which includes development of underground distribution network in urban Bengaluru under the Revised Master Plan 2031 for Bengaluru to develop a livable city. Reliable electricity supply is a lifeline infrastructure in urban areas and essential to sustain operation of high technology industries. Modernizing power distribution networks will (i) reduce the distribution losses, thereby reduce additional consumption of fossil fuel and associated greenhouse gas emissions and pollutants; (ii) improve the reliability and quality of electricity service to over 10 million populatior and high technology industries; and (iii) contribute to construction of livable and disaster resilient city. ADB experience and assistance to the state and subsector. Although ADB has implemented six projects in the state of Karnataka in various sectors, this is the first time for ADB to implement an energy project in the state. ADB has implemented many projects in the power distribution subsector in India in the last 10 years. To sustain investment assets, the proposed project will strengthen the implementing agency's knowledge and resources for operation and maintenance, one of the key lessons learned from previous ADB projects. This will be integrated in the project design.		
Project Rationale and Linkage to Country/Regional Strategy	State economy. Karnataka is the information technology hub of India. Bengaluru, the state's capital, is the fourth largest technological clusts in the world, next to Silicon Valley, San Francisco and London. In 2018, exports of electronics and computer software from the state amounted to \$63 billion which accounted for about 39% of India's electronics and computer software, and 76% of Karnataka's overall exports. In tandem with rapid economic growth (approximately 6.8% per annum), urban population has grown from around 7 million in 2008 to over 10 million in 2018, with a population density of 4.400 persons per square kilometer (m2), making Bengaluru the fourth most populou city in India after Delhi, Mumbai, and Kolkata. On the back of this rapid economic growth, electricity demand has also increased by an average of 10% per year over the past 4 years. Sector overview. Bengaluru Electricity Supply Company Limited (BESCOM), incorporated in 2002, is one of the five state-owned distribution utilities in Karnataka that is licensed to supply electricity in the state. It is the largest distribution utility of Karnataka and is responsible for power distribution in seven districts, covering an area of 41,000 m2 and a population of over 20 million. The company has four operating zones in Bengaluru, covering, in aggregate, approximately 100,000 circuit kilometers (km) of 11 kilowott (kV) high voltage lines. Financial performance, BESCOM has been among the good performing distribution entities in India in terms of operational and financial performance, as compared with peer state owned distribution entities. In 2018, BESCOM ranked seventh among 41 state power distribution utilities throughout India. BESCOM has been amintaining an Ideal mix of consumer profile, with a good balance of commercial and domestic consumers. However, there is room for improvement in BESCOM's financial management capacity to explaiel expenditure i raised from public financial institutions such as Rural Electrification Corporation Lim		

	A livable Bengaluru city dev	reloped.
Outcome	Energy efficient, reliability,	and safe power supply in urban areas of Bengaluru enhanced
Outputs	Smart and disaster resilient power distribution system established in xx of districts in urban areas of Bengaluru Knowledge of implementing agency in modern power distribution system improved	
Geographical Location Nation-wide, New Delhi		
Safeguard Categorie	25	
Environment		В
Involuntary Resettlement		С
Indigenous Peoples		С
Summary of Enviror	nmental and Social Aspects	
Environmental Aspe	cts	
Involuntary Resettle		
Indigenous Peoples		
Stakeholder Commu	unication, Participation, and Consultation	
During Project Desig	jn	
During Project Imple		
Business Opportunit	ties	
	Three international individual consultants ar diligence for the ensuing loan project, as we under the TA would require technical but in experts nor additional outside professional s	dependent works (e.g., technical, safeguards, and financial due diligence), and, hence, do not require teams of support. Therefore, selection method would be individual consultant selection (ICS), and output-based contracts enditures would be used. ADB will engage the consultants in accordance with the Procurement Policy (2017, as
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Project Page	https://www.adb.org/projects/53192-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=53192-001
Date Generated	24 October 2019

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