



Country Operations Business Plan

August 2017

Bangladesh
2018–2020

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 26 July 2017)

Currency unit	–	taka (Tk)
Tk1.00	=	\$0.012
\$1.00	=	Tk81.24

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional OCR lending
LNG	–	liquefied natural gas
OCR	–	ordinary capital resources
SASEC	–	South Asia Subregional Economic Cooperation
TA	–	technical assistance

NOTES

- (i) The fiscal year (FY) of the Government of Bangladesh ends on 30 June. “FY” before a calendar year denotes the year in which the fiscal year ends, e.g., FY2017 ends on 30 June 2017.
- (ii) In this report, “\$” refers to United States dollars.

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I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. The country operations business plan (COBP), 2018–2020 of the Asian Development Bank (ADB) for Bangladesh updates the Bangladesh COBP, 2017–2019.¹ It is consistent with the strategic priorities of ADB’s country partnership strategy, 2016–2020 for Bangladesh, which itself is closely aligned with the broad development goals of the Government of Bangladesh’s Seventh Five Year Plan (FY2016–FY2020), and ADB’s strategic priorities as outlined in the Midterm Review of Strategy 2020.² This COBP focuses on the country partnership strategy’s five priority investment areas: (i) easing infrastructure constraints, (ii) improving human capital, (iii) promoting economic corridor development, (iv) improving rural livelihoods, and (v) providing climate and disaster resilient infrastructure and services.

2. Accordingly, the 2018–2020 program will maintain operations in the following sectors: transport (26.9%); energy (20.0%); water and other urban infrastructure and services (20.6%); education (25.0%); agriculture, natural resources, and rural development (6.3%); and finance and public sector management (1.2%). The program seeks to support gender mainstreaming; governance and institutional strengthening; and knowledge solutions. Environmental and climate change considerations will be integrated into the project interventions.

3. About two-thirds of investments (by volume) in the 2018–2020 program are proposed for strengthening infrastructure. These include expanding power generation capacity; strengthening power transmission and distribution systems; strengthening road and railway connectivity; developing ports; and improving urban services, water supply, and sanitation. Priority is given to economic corridor development to facilitate the integrated development of Bangladesh’s southwest region and make it a hub for investment and domestic and regional trade. This will help the country participate in regional and global value chains, encourage cooperation and integration under the South Asia Subregional Economic Cooperation (SASEC) partnership and beyond, and create conditions for greater private sector participation. The program also prioritizes quality education and skills development, while seeking to boost agricultural productivity, improve farm-to-market linkages, and increase environment and climate resilience.

II. INDICATIVE RESOURCE PARAMETERS

4. Bangladesh, a group B developing member country, is eligible for both regular ordinary capital resources (OCR) lending and concessional OCR lending (COL). The indicative resources available during 2018–2020 for sovereign operations amount to \$3,525.9 million, comprising \$1,545.9 million for COL and \$1,980 million for regular OCR lending. The final allocation will depend on available resources and the outcome of the country performance assessments. Cofinancing and funding from other sources, including the regional pool under concessional resources and regular OCR regional cooperation and integration set-aside, will be explored.³ ADB’s private sector operations will focus largely on energy and finance sectors.

5. Appendix 2 lists the indicative lending and nonlending program for 2018–2020. Required resources include \$3,973 million for firm projects, \$4,300 million for standby projects, and about \$16 million for the nonlending program. Standby projects are included for each year to build a

¹ ADB. 2016. *Country Operations Business Plan: Bangladesh, 2017–2019*. Manila.

² ADB. 2016. *Country Partnership Strategy: Bangladesh, 2016–2020*. Manila; Government of Bangladesh, Ministry of Planning. 2015. *Seventh Five Year Plan FY2016–FY2020: Accelerating Growth, Empowering Citizens*. Dhaka; ADB. 2014. *Midterm Review of Strategy 2020: Meeting the Challenges of a Transforming Asia and Pacific*. Manila.

³ Funds from the regional pool under concessional resources and OCR regional set-aside are available to projects that include regional cooperation and integration components.

strong pipeline of bankable projects in response to the country's needs and growing absorptive capacity. All projects in excess of resources available will be taken up for ADB financing once the high-readiness criteria are met, and when additional lending resources are available.

6. The country assistance results areas in Appendix 1 align sectors of ADB assistance over 2018–2020 with the cross-sector strategic agenda, provide directions regarding the allocation of sectoral resources, and detail changes from the last COBP. The assistance program for 2017 is in Appendix 3, and a list of indicative knowledge publications and events is in Appendix 4.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

7. **Energy.** Two new projects for a total of \$640 million, for upgrading the power systems and grid, were added to the 2018–2020 firm program. The Grid-Connected Solar PV Plants 2X100 MWp (\$300 million) was shifted to the firm program from standby, and renamed the Renewable Energy Project (\$150 million). The Rural Hybrid Power Development Project was dropped. The Khulna 800-Megawatt LNG-Based Combined Cycle Power Plant was renamed the Rupsha 800-Megawatt Combined Cycle Power Plant Project.

8. **Transport.** The SASEC Railway Connectivity Dhaka–Comilla Chordline Project (Tranche 1) (\$300 million), the Chittagong Port Enhancement Project (\$250 million) which covers the 2017 TA loan, and a TA Loan for Dhaka Transport Hub Project (\$20 million) were added. The regional Dhaka–Chittagong Railway Project Phase 1 (tranche 1) (\$150 million) and Dhaka–Chittagong Expressway Investment Program (tranche 1) (\$200 million) were shifted to the firm program from standby. The Chittagong Port Investment Program Phase 1 (tranche 1), the SASEC Chittagong–Cox's Bazar Railway Project Phase 1 (tranche 2), and the Dhaka Metro Investment Program were shifted to the standby pipeline.

9. **Education.** The Establishment of ICT Universities Phase 1 (\$100 million) was shifted to the firm program from standby, and renamed the Support to Advanced Institutions in Science and Technology Project (\$150 million). The Development of Information Technology Parks for Employment Project (\$250 million) also shifted to the firm program from standby, and renamed the Supporting Information Technology Skills Development for Growth Centers Project (\$100 million). A new TA Loan for \$15 million was added.

10. **Finance and public sector management.** The only firm project in the finance sector—the Third Public-Private Infrastructure Development Facility Project (tranche 2) (\$266 million)—was dropped. Public Sector Management was added as a new sector in COBP 2018-2020 with a \$50 million project from the previous COBP.

11. **Water and other urban infrastructure and services.** The Second Coastal Towns project (\$250 million), and two TA loans for \$20 million were added. Modality for the City Region Economic Development Investment Program was converted into project loan, and its allocation increased by \$50 million. Allocation for Dhaka Water Supply and Sewerage Management Project, formerly Dhaka Sewerage Management System Development Project, increased by \$200 million. The Urban Primary Health Care Services Delivery Project (Additional Financing) (\$153 million) was shifted from urban to education sector.

12. **Agriculture, natural resources, and rural development.** The Flood and Riverbank Erosion Risk Management Investment Program (tranche 3) (\$80 million) and the Market and Value Chain project design advance were dropped. The Rural Infrastructure Maintenance Program (\$210 million) was converted into a project loan from results-based lending, and shifted to standby along with the Market and Value Chain Infrastructure Development project (\$70 million).

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes to which ADB Contributes	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from the Last COBP
1. Agriculture, Natural Resources, and Rural Development			
Higher agricultural productivity and wages, and increased employment	Integrated water resources management and irrigation service delivery	Amount: \$250 million (COL)	Two projects were dropped. Rural Infrastructure Maintenance Program converted into project loan from RBL.
Better managed flood control and riverbank erosion mitigation	Rural flood protection	Share of the COBP envelope: 6.3% ^b	
Increased women's participation in education and employment ^a	Rural market infrastructure Agro-industry, marketing, and trade		
2. Education			
Quality education, greater access to education, and employment skills	Technical and vocational education and training	Amount: \$993 million (COL)	Two projects shifted to firm from standby. New TA loan added.
Urban health	Primary, secondary, and higher education	Share of the COBP envelope: 25.0% ^b	
Increased women's participation in education and employment ^a	Tertiary education on ICT Urban primary health care ^c		
3. Energy			
Higher availability and reliability of, and enhanced access to a power supply	Electricity generation, transmission, and distribution	Amount: \$790 million (regular OCR)	One project was dropped and two were added.
Improved regional transport and energy connectivity	Energy efficiency and conservation Regional energy connectivity	Share of the COBP envelope: 20.0% ^b	
Increased women's participation in education and employment ^a	Renewable energy generation, solar and wind		
4. Finance			
More inclusive finance sector	Microenterprise development	Amount: 0	One firm project was dropped.
Higher private investment		Share of the COBP envelope: 0% ^b	
Increased women's participation in education and employment ^a			
5. Public Sector Management			
Improved public sector organizational efficiency	Land record digitization, online tax return submission	Amount: \$50 million (COL) Share of the COBP envelope: 1.2% ^b	New sector added in the table. One project shifted to firm from standby.

Key Country Development Outcomes to which ADB Contributes	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from the Last COBP
Enhanced accountability and transparency in the public sector and proper use of public resources			
6. Transport			
More efficient transport infrastructure and connectivity	Road and rail network expansion	Amount: \$1,070 million (\$1,000 million from regular OCR and \$70 million from COL) Share of the COBP envelope: 26.9% ^b	Two projects and a TA loan were added. Two projects shifted to firm from standby. Three projects shifted to standby.
Environmentally sustainable transport system	Railway capacity improvement		
	Seaport development		
Improved regional transport and energy connectivity	Sustainable urban public transport systems		
	Regional road and rail connectivity development		
	Transport policies and institutional development		
7. Water and Other Urban Infrastructure and Services			
Improved urban infrastructure and services	Water and sanitation infrastructure	Amount: \$820 million (\$580 million from regular OCR and \$240 million from COL)	One investment project and two TA loans were added. Allocation for one project increased by \$200 million. Urban Primary Health Project removed from urban sector.
	Urban flood protection		
Increased participation by women in education and employment ^a	Urban growth centers and infrastructure for economic development	Share of the COBP envelope: 20.6% ^b	

ADB = Asian Development Bank, COBP = country operations business plan, COL = concessional OCR lending, ICT = information and communications technology, OCR = ordinary capital resources, RBL = results-based lending; TA = technical assistance.

^a Consistent with the gender-related key outcomes in the Country Partnership Strategy Results Framework, women's participation in sector-related decision-making processes and structures, and livelihood and employment opportunities will be pursued.

^b Sector shares for the total pipeline, including standby projects, are as follows: transport (39.2%); energy (29.2%); water supply and other urban services (12.4%); education (10.2%); agriculture, natural resources, and rural development (6.3%); and finance and public sector management (1.2%).

^c \$153 million for Urban Primary Health Care Services Delivery Project (Additional Financing) in the 2018 firm pipeline is included in the Education sector as Health is not a priority sector in Bangladesh country partnership strategy 2016-2020.

Source: ADB estimates.

INDICATIVE ASSISTANCE PIPELINE

Table A2.1: Lending Products, 2018–2020

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
2018 Firm												
Fourth Primary Education Development Project (RBL)	EDU	GI	IEG/GCD/GEM/KNS/ PAR	SAHS	2016	TBD	0.0	275.0	0.0	275.0	TBD	300.0
Urban Primary Health Care Services Delivery Project (Additional Financing)	HLT	TI-H	IEG/GCD/GEM/PAR/ PSD	SAHS	2016	TBD	0.0	153.0	0.0	153.0	TBD	10.0
Southwest Transmission Grid Expansion Project	ENE	TI-G	IEG/ESG/ PAR	SAEN	2017	TBD	440.0	0.0	0.0	440.0	TBD	260.0
Chittagong Port Enhancement Project	TRA	GI	IEG/GCD/ PSD/RCI	SATC		TBD	240.0	10.0	0.0	250.0	TBD	0.0
Greater Dhaka Sustainable Urban Transport Project (Additional Financing)	TRA	TI-G	IEG/ESG/ GCD/GEM	SATC		TBD	90.0	30.0	0.0	120.0	TBD	0.0
City Region Development Project II	WUS	GI	IEG/ESG/ GCD/GEM/ PAR	SAUW	2016	TBD	120.0	80.0	0.0	200.0	TBD	0.0
Human Capital Development Project (TA Loan)	EDU	GI	IEG/GEM/ GCD/KNS/ PAR/PSD	SAHS		TBD	0.0	15.0	0.0	15.0	TBD	0.0
Preparing Railway Connectivity Projects (TA Loan)	TRA	GI	IEG/KNS	SATC		TBD	0.0	30.0	0.0	30.0	TBD	0.0
Dhaka Transport Hub Project (TA Loan)	TRA	GI	IEG/KNS	SATC		TBD	0.0	20.0	0.0	20.0	TBD	0.0
Secondary Towns Water Supply Project (TA Loan)	WUS	GI	IEG/ESG/ GCD/GEM	SAUW		TBD	0.0	10.0	0.0	10.0	TBD	0.0
Total						TBD	890.0	623.0	0.0	1,513.0	TBD	570.0

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
2018 Standby												
Market and Value Chain Infrastructure Development Project	ANR	TI-H	IEG/GCD/GEM/PSD	SAER	2016	TBD	0.0	70.0	0.0	70.0	TBD	0.0
Rural Infrastructure Maintenance Project	ANR	TI-G	IEG/GCD/GEM	SAER	2016	TBD	200.0	0.0	0.0	200.0	TBD	0.0
Rupsha 800-Megawatt Combined Cycle Power Plant Project	ENE	GI	IEG/ESG/GEM/GCD/KNS/PAR	SAEN		TBD	500.0	0.0	0.0	500.0	TBD	300.0
South Asia Subregional Economic Cooperation Bangladesh–India Grid Interconnection (East) Project	ENE	GI	IEG/RCI	SAEN	2017	TBD	120.0	0.0	0.0	120.0	TBD	0.0
Railway Rolling Stock Project	TRA	GI	IEG/ESG/PAR	SATC		TBD	200.0	0.0	0.0	200.0	TBD	300.0
South Asia Subregional Economic Cooperation Chittagong–Cox's Bazar Railway Project Phase 1 (Tranche 2) ^a	TRA	GI	IEG/ESG/GCD/GEM/RCI	SATC		TBD	400.0	0.0	0.0	400.0	TBD	0.0
Total						TBD	1,420.0	70.0	0.0	1,490.0	TBD	600.0
2019 Firm												
Ganges–Kobadak Irrigation Project	ANR	GI	IEG/ESG/GCD	SAER	2016	TBD	0.0	150.0	0.0	150.0	TBD	0.0
Skills for Employment Investment Program (Tranche 3) ^b	EDU	GI	IEG/GCD/PAR	SAHS		TBD	0.0	300.0	0.0	300.0	TBD	300.0
Supporting Information Technology Skills Development for Growth Centers Project	EDU	GI	IEG/GCD/GEM/PAR/PSD	SAHS		TBD	0.0	100.0	0.0	100.0	TBD	0.0
Southwest Distribution System Expansion Project	ENE	GI	IEG/GCD/GEM	SAEN	2017	TBD	200.0	0.0	0.0	200.0	TBD	0.0
South Asia Subregional Economic Cooperation Dhaka–Chittagong Railway Project Phase 1 (Tranche 1) ^d	TRA	GI	IEG/ESG/GCD/GEM/RCI	SATC		TBD	150.0	0.0	0.0	150.0	TBD	0.0

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
Dhaka Water Supply and Sewerage Management Project	WUS	GI	IEG/ESG/GCD/GEM	SAUW		TBD	350.0	0.0	0.0	350.0	TBD	0.0
Preparing Urban Development Projects (TA Loan)	WUS	GI	IEG/ESG/GCD/GEM	SAUW		TBD	0.0	10.0	0.0	10.0	TBD	0.0
Total						TBD	700.0	560.0	0.0	1,260.0	TBD	300.0
2019 Standby												
Dhaka–Khulna Gas Transmission Project	ENE	GI	IEG/GCD/ PAR	SAEN	2017	TBD	150.0	0.0	0.0	150.0	TBD	0.0
Bangladesh Rural Electrification Expansion Project	ENE	GI	IEG/GCD/ GEM	SAEN	2018	TBD	500.0	0.0	0.0	500.0	TBD	0.0
Microenterprise Development Project	FIN	GI	IEG/GCD/ GEM/KNS/ PSD	SAPF		TBD	0.0	50.0	0.0	50.0	TBD	0.0
SASEC Dhaka–Northwest Corridor Road Project Phase 2 (Tranche 2) ^c	TRA	GI	IEG/ESG/ GCD/GEM/ RCI	SATC		TBD	250.0	0.0	0.0	250.0	TBD	0.0
Chittagong Port Expansion Project Phase 1 (Tranche 1) ^d	TRA	GI	IEG/GCD/ PSD/RCI	SATC		TBD	200.0	0.0	0.0	200.0	TBD	0.0
SASEC Chittagong–Cox's Bazar Railway Project Phase 2 (Tranche 1) ^d	TRA	GI	IEG/GCD/ RCI	SATC		TBD	250.0	0.0	0.0	250.0	TBD	0.0
Dhaka Metro Project (TA Loan)	TRA	GI	IEG/GEM/ GCD	SATC		TBD	0.0	10.0	0.0	10.0	TBD	0.0
Total						TBD	1,350.0	60.0	0.0	1,410.0	TBD	0.0
2020 Firm												
Flood and Riverbank Erosion Risk Management Investment Program (Tranche 2) ^e	ANR	TI-G	IEG/ESG/ GCD/GEM/ KNS/PAR	SAER		TBD	0.0	100.0	0.0	100.0	TBD	0.0
Support to Advanced Institutions in Science and Technology Project	EDU	GI	IEG/GCD/ GEM/PAR/ PSD	SAHS	2019	TBD	0.0	150.0	0.0	150.0	TBD	0.0

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
Renewable Energy Project	ENE	GI	IEG/ESG/GCD/GEM/KNS/PSD	SAEN	2018	TBD	150.0	0.0	0.0	150.0	TBD	0.0
Strengthening Governance Management Project (Phase 2)	PSM	GI	IEG/GCD/KNS	SAPF		TBD	0.0	50.0	0.0	50.0	TBD	0.0
Dhaka–Chittagong Expressway Investment Program (Tranche 1) ^d	TRA	GI	IEG/GCD/PSD	SATC		TBD	200.0	0.0	0.0	200.0	TBD	0.0
South Asia Subregional Economic Cooperation Railway Connectivity Dhaka–Comilla Chordline Project (Tranche 1) ^d	TRA	GI	IEG/GCD/RCI	SATC		TBD	300.0	0.0	0.0	300.0	TBD	0.0
Second Coastal Towns Environmental Infrastructure Improvement Project	WUS	GI	IEG/ESG/GCD/GEM/KNS/PAR/PSD	SAUW		TBD	80.0	170.0	0.0	250.0	TBD	0.0
Total						TBD	730.0	470.0	0.0	1,200.0	TBD	0.0
2020 Standby												
Support for Liquefied Natural Gas in Bangladesh Project	ENE	GI	IEG/GCD/PSD	SAEN		TBD	150.0	0.0	0.0	150.0	TBD	0.0
South Asia Subregional Economic Cooperation Bangladesh–India Grid Interconnection (North) Project	ENE	GI	IEG/GCD/RCI	SAEN		TBD	200.0	0.0	0.0	200.0	TBD	0.0
South Asia Subregional Economic Cooperation Dhaka–Southwest Road Corridor Project (Tranche 1) ^d	TRA	GI	IEG/GCD/RCI	SATC		TBD	300.0	0.0	0.0	300.0	TBD	0.0
Dhaka Metro Investment Program Phase 1 (Tranche 1) ^d	TRA	GI	IEG/ESG/GCD/PAR	SATC		TBD	250.0	0.0	0.0	250.0	TBD	150.0

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
Dhaka Transport Hub Project	TRA	GI	IEG/ESG/GCD/PAR/PSD	SATC		TBD	300.0	0.0	0.0	300.0	TBD	0.0
Secondary Towns Water Supply and Sanitation Project	WUS	GI	IEG/ESG/GEM/GCD	SAUW		TBD	200.0	0.0	0.0	200.0	TBD	0.0
Total						TBD	1,400.0	0.0	0.0	1,400.0	TBD	150.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; EDU = education; ENE = energy; ESG = environmentally sustainable growth; FIN = finance; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; HLT = health; IEG = inclusive economic growth; KNS = knowledge solutions; OCR = ordinary capital resources; PAR = partnerships; PDA = project design advance; PSD = private sector development; PSM = public sector management; RBL = results-based lending; RCI = regional cooperation and integration; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources and Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TA = technical assistance; TBD = to be determined; TI-G = targeted intervention—geographic dimensions of inclusive growth; TI-H = targeted intervention—income poverty at household level; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

^a The total multitranche financing facility (MFF) amounts to \$1,500 million approved by ADB in 2016.

^b The total MFF amounts to \$350 million approved by ADB in 2014.

^c The total MFF amounts to \$1,200 million.

^d The total MFF amounts to \$1,000 million.

^e The total MFF amounts to \$255 million approved by ADB in 2014.

Source: ADB estimates.

Table A2.2: Nonlending Products and Services, 2018–2020

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2018								
Support to Primary and Secondary Education Programs	EDU	SAHS	TRTA	TASF	500.0		0.0	500.0
Support to Energy Research Council	ENE	BRM	KSTA	TASF	750.0		0.0	750.0
Preparing Renewable Energy Project	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Preparing Southwest Distribution System Expansion Project	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Preparing Bangladesh Rural Electrification Expansion Project	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Enhancing Distribution Network and Capacity Development in the West Zone Area	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Support to Urban Primary Health Care Services Delivery Project	HLT	SAHS	TRTA		0.0	UCCRTF	2,000.0	2,000.0
Support to Railway Rolling Stock Project	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
Support to Chittagong Port Enhancement Project	TRA	SATC	TRTA	TASF	1,500.0		0.0	1,500.0
Capacity Building for Urban Planning and Public Works	WUS	SAUW	TRTA	TASF	750.0		0.0	750.0
Support to City Region Development Project II	WUS	SAUW	TRTA	TASF	500.0		0.0	500.0
Total					7,000.0		2,000.0	9,000.0
2019								
Preparing Skills and Innovation Development Program	EDU	SAHS	TRTA	TASF	500.0		0.0	500.0
Preparing Support for Liquefied Natural Gas Project in Bangladesh	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Preparing South Asia Subregional Economic Cooperation Bangladesh–India Grid Interconnection (North) Project	ENE	SAEN	TRTA	TASF	500.0		0.0	500.0
Support to South Asia Subregional Economic Cooperation Road Corridor Development	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
Safeguard Monitoring for Railway Projects	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
Strengthening Capacity of City Corporations	WUS	SAUW	TRTA	TASF	500.0		0.0	500.0
Support to Dhaka Water Supply and Sewerage Management Project	WUS	SAUW	TRTA	TASF	500.0		0.0	500.0
Total					4,500.0		0.0	4,500.0

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2020								
Support to Chittagong Port Project	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
Metro Capacity Development and National Appropriate Mitigation Action	TRA	SATC	TRTA	TASF	1,000.0		0.0	1,000.0
Preparing Dhaka Water Supply and Sewerage Management Project (Additional Financing)	WUS	SAUW	TRTA	TASF	500.0		0.0	500.0
Support to Secondary Towns Water Supply and Sanitation Project	WUS	SAUW	TRTA	TASF	500.0		0.0	500.0
Total					3,000.0		0.0	3,000.0

ADB = Asian Development Bank; BRM = Bangladesh Resident Mission; EDU = education; ENE = energy; HLT = health; KSTA = knowledge and support technical assistance; SAEN = South Asia Energy Division; SAHS = South Asia Human and Social Development Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance; UCCRTF = Urban Climate Change Resilience Trust Fund; WUS = water and other urban infrastructure and services.

Source: ADB estimates.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A3.1: Lending Products, 2017

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total	ADB			Total	Gov't	Co-finance
							Regular OCR	COL	ADF Grants			
Firm												
Secondary Education Sector Investment Program (Tranche 3) ^a	EDU	GI	IEG/GCD/GEM/PAR	SAHS	2012	TBD	0.0	225.0	0.0	225.0	TBD	500.0
Power System Enhancement and Efficiency Improvement Project	ENE	GI	IEG/ESG/RCI/GCD	SAEN	2016	TBD	600.0	16.0	0.0	616.0	TBD	2.0
Third Public–Private Infrastructure Development Facility (Tranche 1) ^b	FIN	GI	IEG/ESG/RCI/PSD/PAR	SAPF		TBD	250.0	10.0	0.0	260.0	TBD	0.0
South Asia Subregional Economic Cooperation Dhaka–Northwest Corridor Road Project, Phase 2 (Tranche 1) ^c	TRA	GI	IEG/RCI/GCD/PSD/PAR	SATC		TBD	250.0	50.0	0.0	300.0	TBD	0.0
Third Urban Governance and Infrastructure Improvement Project (Additional Financing)	WUS	GI	IEG/ESG/GCD/GEM/KNS/PAR	SAUW		TBD	100.0	100.0	0.0	200.0	TBD	0.0
Total						TBD	1,200.0	401.0	0.0	1,601.0	TBD	502.0

Project or Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						ADB					Co-finance	
						Total	Regular OCR	COL	ADF Grants	Total		Gov't
Standby												
Railway Rolling Stock Operations Improvement Project	TRA	GI	IEG/RCI/GCD/PAR	SATC		TBD	360.0	0.0	0.0	360.0	TBD	0.0
Total						TBD	360.0	0.0	0.0	360.0	TBD	0.0

ADB = Asian Development Bank; ADF = Asian Development Fund; COL = concessional OCR lending; EDU = education; ENE = energy; ESG = environmentally sustainable growth; FIN = finance; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; IEG = inclusive economic growth; KNS = knowledge solutions; OCR = ordinary capital resources; PAR = partnerships; PDA = project design advance; PSD = private sector development; RCI = regional cooperation and integration; SAEN = South Asia Energy Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TBD = to be determined; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Note: Given the provisional nature of the indicative lending program, the composition of the lending instruments actually delivered may change. Investment lending accounted for 88.8% of sovereign lending commitments during 2014–2016, conventional policy-based lending accounted for 7.6%, and results-based lending 3.6%.

^a The total multitranchise financing facility (MFF) amounts to \$500 million approved by ADB in 2013.

^b The total MFF amounts to \$526 million.

^c The total MFF amounts to \$1,200 million.

Source: ADB estimates.

Table A3.2: Nonlending Products and Services, 2017

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Sustainable Management of Community Development for Chittagong Hill Tracts	ANR	BRM	TRTA	TASF	500.0		0.0	500.0
Support to Primary Education Development (Supplementary)	EDU	SAHS	TRTA	TASF	0.0	Canada	1,500.0	1,500.0
Preparing Southwest Transmission Grid Expansion Project	ENE	SAEN	TRTA	TASF	750.0		0.0	750.0
Khulna 800-Megawatt Liquefied Natural Gas-Based Power Plant Project	ENE	SAEN	TRTA	TASF	200.0		0.0	200.0
Preparing South Asia Subregional Economic Cooperation Bangladesh–India Grid Interconnection (East) Project	ENE	SAEN	TRTA	TASF	225.0		0.0	225.0
Capacity Development in Infrastructure Development Company Limited	FIN	SAPF	TRTA		0.0	FSDPSF	750.0	750.0
Capacity Building for Portfolio Management	PSM	BRM	KSTA	TASF	225.0		0.0	225.0
Enhancing the Institutional Capacity of Anti-Corruption Commission (Supplementary)	PSM	BRM	KSTA		0.0	EAKPF	300.0	300.0
Railway Rolling Stock Operations Improvement Project	TRA	SATC	TRTA		0.0	CEFPF	500.0	500.0
SASEC Dhaka–Northwest Corridor Road Project, Phase 2	TRA	SATC	TRTA	TASF	2,000.0		0.0	2,000.0
City Region Development Project II (Supplementary)	WUS	SAUW	TRTA	TASF	750.0		0.0	750.0
Institutionalizing Gender Equality Practices in Local Government Engineering Department	WUS	BRM	KSTA	TASF	225.0	TBD	2,000.0	0.0
Total					4,875.0		5,050.0	9,925.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; BRM = Bangladesh Resident Mission; CEFPF = Clean Energy Financing Partnership Facility; EAKPF = e-Asia and Knowledge Partnership Fund; EDU = education; ENE = energy; FIN = finance; FSDPSF = Financial Sector Development Partnership Special Fund; KSTA = knowledge and support technical assistance; PSM = public sector management; SAEN = South Asia Energy Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector, and Trade Division; SASEC = South Asia Subregional Economic Cooperation; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; TASF = Technical Assistance Special Fund; TBD = to be determined; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Source: ADB estimates.

INDICATIVE KNOWLEDGE PUBLICATIONS AND EVENTS

Table A4.1: Knowledge Publications and Events, 2018

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance Number
Asian Development Outlook 2018	Economics	Publication and documentation	ERCD	
Asian Development Outlook 2018 Update	Economics	Publication and documentation	ERCD	
Asian Development Outlook 2018 Supplement	Economics	Publication and documentation	ERCD	
Bangladesh Economic Indicators Update (three issues)	Economics	Database	SARD	
Asian Development Bank and Bangladesh: Fact Sheet 2018	Economics and governance	Publication and documentation	DER, SARD	
Study on Automating the Tax System	Economics	Publication and documentation	SARD	
Toolkits on Disaster Risk Financing	Finance	Publication and documentation	SDCC	
Case Study on Development Communication at ADB	ADB administration and governance	Publication and documentation	DER	
Working Paper on Bangladesh Exports	Economics, industry and trade	Publication and documentation	ERCD	
Working Paper on Bangladesh Integration into Global Value Chains	Economics, industry and trade	Publication and documentation	ERCD	
Key Indicators for Asia and the Pacific 2018	Economics, capacity development, governance and public sector management	Publication and documentation	ERCD	
Key Indicators for Asia and the Pacific 2018 Special Chapter	Economics, capacity development, governance and public sector management	Publication and documentation	ERCD	
University–Industry Cooperation in the Information Technology Sector in Bangladesh	Education	Publication and documentation	SARD	
Gender-Based Research on Trends in Gender Mainstreaming in ADB Priority Sectors	Gender	Publication and documentation	SARD, Gender Equity, SDCC	
Country Brief on Urban Health	Health, urban development	Publication and documentation	Health, SDCC	
Working Paper on Urban Health in South Asia	Health, urban development	Publication and documentation	Health, SDCC	
Technical Study on Road Safety Guidelines	Transport	Publication and documentation	SARD	
Joint Knowledge Work with SERD and SARD—Intersubregional Cooperation	Economics, regional cooperation and integration	Publication and documentation	ERCD, SARD, SERD	
Asian Clean Energy Forum 2018	Energy, environment, finance, regional cooperation and integration	Event organization	SDCC, Energy	8953

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance Number
Asia Solar Energy Forum 12th Meeting	Climate change, energy, environment, finance, capacity development	Event organization	SDCC, Energy	8953
Launch and Dissemination of the Asian Economic Integration Report 2018	Capacity development, economics, finance, industry and trade, regional cooperation and integration	Event organization	ERCD	
Subregional Workshop and Conferences on Gender and Transport	Gender, transport	Event organization	SDCC, Gender Equity, SARD	8311
Total number of publications = 18				
Total number of events = 4				

ADB = Asian Development Bank; DER = Department of External Relations; ERCD = Economic Research and Regional Cooperation Department; SARD = South Asia Department; SDCC = Sustainable Development and Climate Change Department; SERD = Southeast Asia Department.

Note: "Publications" may include databases, multimedia, and other forms of documentation. "Events" may include event organization and training or capacity development.

Source: ADB Knowledge Nexus.

Table A4.2: Additional Knowledge Publications and Events Delivered in 2017

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance Number
Asian Development Outlook 2017	Economics	Publication and documentation	ERCD	
Asian Development Outlook 2017 Update	Economics	Publication and documentation	ERCD	
Asian Development Outlook 2017 Supplement	Economics	Publication and documentation	ERCD	
Bangladesh Economic Indicators Update (three issues)	Economics	Database	SARD	
Asian Development Bank and Bangladesh: Fact Sheet 2017	Economics and governance	Publication and documentation	DER, SARD	
Key Indicators for Asia and the Pacific 2017	Economics, capacity development, governance and public sector management	Publication and documentation	ERCD	
Key Indicators for Asia and the Pacific 2017 Special Chapter	Economics, capacity development, governance and public sector management	Publication and documentation	ERCD	
Study on Infrastructure Financing	Finance	Publication and documentation	SARD	
Study on Female Labor Market Transformation	Economics	Publication and documentation	SARD	
Working Paper on Service Delivery Innovations in Bangladesh	Governance and public sector management	Publication and documentation	SARD	7997
Working Paper: BAN Remittances for Development for Asia	Finance	Publication and documentation	SARD	7997
Report on Economic Corridor Development in Bangladesh	Economics	Publication and documentation	SARD	7491
Working Paper on Dhaka Water Supply (Nonrevenue Water Reduction)	Water	Publication and documentation	SARD	
Working Paper on Economic Diversification and Structural Transformation: Using Input–Output Tables to Explain Production Structure Changes in Bangladesh	Economics	Publication and documentation	ERCD	
Bangladesh: Development Effectiveness Brief 2017	ADB administration and governance	Publication and documentation	SARD	7997
Assessment of Power Sector Reforms in South Asia	Energy	Publication and documentation	SARD	7997
Gender Equality Results Case Studies on SARD Projects	Gender	Publication and documentation	SARD	
Cross-Border Power Generation, Transmission, and Trading: A Way Forward for South Asia	Energy	Publication and documentation	SARD	7997
Next Steps to South Asian Economic Union	Regional cooperation and integration	Publication and documentation	SARD	6512
Transport and Trade Facilitation Monitoring Mechanism Baseline Study in Bangladesh	Industry and trade	Publication and documentation	SARD	7491
Guidelines for Irrigation Modernization	Agriculture and natural resources	Publication and documentation	SARD	

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance Number
The Economic Effects of Participating in Global Value Chains: Country and Sector Level Analysis	Capacity development, economics, governance and public sector management	Publication and documentation	ERCD	8779
The Future of Regional Cooperation in Asia and the Pacific	Economics, regional cooperation and integration	Publication and documentation	ERCD	9032
Rural Connectivity in South Asia	Transport	Publication and documentation	SARD	
Growth Slowdowns, Middle-Income Trap, and Demographic Profile in South Asia	Economics	Publication and documentation	ADBI	
South Asia Subregional Economic Cooperation Vision: Powering Asia in the 21st Century	Regional cooperation and integration	Publication and documentation	SARD	
Country Readiness Assessment Framework for South Asia Economic Corridor Development	Economics	Publication and documentation	SARD	8254
Subregional Workshop and Conferences on Gender and Transport	Gender	Event organization	SARD	8311
Launch and Dissemination of the Asian Economic Integration Report 2017: Financial Stability and Financial Resilience	Capacity development, economics, finance, industry and trade, regional cooperation and integration	Event organization	ERCD	9121
UNFCCC Climate Change Conference COP 23 in Bonn	Climate change, energy, environment, urban development, water	Event organization	SDCC	
Improving Livelihood of Small Island and Rural Communities: Deploying Hybrid Renewable Energy Systems in South Asian Countries	Energy	Training or capacity development	SARD	
Asia Clean Energy Forum 2017	Energy, environment, finance, regional cooperation and integration	Event organization	SDCC	8953
SASEC Nodal Officials Meeting	Energy, regional cooperation and integration, transport, industry and trade	Event organization	SARD	
2017 V20 Asia-Pacific Regional Consultation and Disaster Risk Financing Workshop	Climate change and disaster risk management	Event organization	SDCC	
Anticorruption Seminars in Bangladesh	Governance	Training or capacity development	OAI	
Total number of publications = 27				
Total number of events = 8				

ADB = Asian Development Bank; ADBI = Asian Development Bank Institute; BAN = Bangladesh; COP = Conference of the Parties; DER = Department of External Relations; ERCD = Economic Research and Regional Cooperation Department; OAI = Office of Anticorruption and Integrity; SARD = South Asia Department; SASEC = South Asia Subregional Economic Cooperation; SDCC = Sustainable Development and Climate Change Department; UNFCCC = United Nations Framework Convention on Climate Change.

Note: "Publications" may include databases, multimedia, and other forms of documentation. "Events" may include event organization and training or capacity development. The table includes additional knowledge publications and events delivered outside the list of indicative knowledge publications and events included in the 2016 country operations business plan.

Source: ADB Knowledge Nexus.

Table A4.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2018

Item	Nature	Project Number	Sector or Theme	Division
Use of solar irrigation	TCH	2769	ENE	BRM
Use of unified specification for smart metering of electricity	TCH	3350,3087	ENE	SAEN
SCADA system for the Dhaka Electric Supply Company	TCH	3522	ENE	SAEN
Construction of high-voltage DC back-to-back substations	TCH	3298, 3299	ENE	SAEN
Use of well head compressor	TCH	3461	ENE	SAEN
Total number of innovation, advanced technology, and pilot initiatives = 5				

BRM = Bangladesh Resident Mission; DC = direct current; ENE = energy; SAEN = South Asia Energy Division; SCADA = Supervisory Control and Data Acquisition; TCH = advanced technology.

Source: ADB project documents.