



Board of Directors

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Country Operations Business Plan: Nepal, 2020–2022

Attached for information is a paper on the above subject.

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Country Operations Business Plan

October 2019

Nepal
2020–2022

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 15 October 2019)

Currency unit	–	Nepalese rupee/s (NRe/NRs)
NRe1.00	=	\$0.0088
\$1.00	=	NRs113.68

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional ordinary capital resources lending
CPS	–	country partnership strategy
OCR	–	ordinary capital resources

NOTES

- (i) The fiscal year (FY) of the Government of Nepal ends in mid-July. “FY” before a calendar year denotes the year in which the fiscal year ends, e.g., FY2019 ended on 16 July 2019.
- (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), 2020–2022 of the Asian Development Bank (ADB) for Nepal is guided by ADB’s country partnership strategy (CPS), 2020–2024. The objectives of the CPS, 2020–2024 are to (i) improve infrastructure for private sector-led growth, (ii) improve access to devolved services, and (iii) promote environmental sustainability and resilience. The CPS and the COBP, 2020–2022 contribute to the government’s 15th plan for FY2020–FY2024 that aims at high and equitable national income; economic and social justice and poverty reduction; building human capital; universal, affordable, and modern infrastructure for connectivity (including urban and rural infrastructure); high and sustainable production and productivity (including increased agriculture productivity); healthy and balanced ecosystem (including resilience to climate change and natural disasters); and good governance.¹ The government’s plan calls for the smooth implementation of the federal system of governance and creating an investment-friendly environment for the private sector.

2. Consistent with ADB’s Strategy 2030, sovereign and nonsovereign support will be tailored to the needs of a low-income, landlocked, and mountainous country, based on the country’s priorities.² ADB’s assistance to Nepal during the COBP period will comprise selected and focused components of Strategy 2030’s seven operational priorities. In each priority area, ADB will collaborate with development partners for complementary solutions to development challenges.

3. **Improved infrastructure for private sector-led growth.** The COBP includes investments in infrastructure, such as (i) hydropower generation (storage-type), transmission lines and substations, and distribution systems; (ii) the national East-West highway; and (iii) expansion of the Tribhuvan International Airport. These investments will be supported by relevant sector reforms and capacity development. They will help provide critical infrastructure services to crowd in private sector investment in the economy and contribute to the CPS strategic objective on infrastructure for private sector-led growth.

4. **Improved access to devolved services.** The strategic objective of the CPS to improve access to devolved services will be supported with assistance for reforms to strengthen the functions and capacity of subnational governments for devolved service delivery, access to education and skills for productive employment, rural connectivity, irrigation, agriculture value chain development, and urban development. These will be generally targeted to benefit women and marginalized communities. Gender equality and social inclusion is also mainstreamed across other CPS priority areas.

5. **Environmental sustainability and resilience.** The program mainstreams climate change and disaster risk reduction, as well as environmental sustainability, through resilient infrastructure, such as flood-resistant and all-weather roads; flood risk management in river basins; integrated water resources management; and enhanced knowledge and capacity for environmental management, climate change adaptation, and disaster risk management.

6. ADB is exploring private sector operations for long-term lending for infrastructure development, such as electricity generation from hydropower and other renewable sources. Lending for the Upper Trishuli 1 Hydro Power Project was approved by ADB in 2019. ADB will

¹ Government of Nepal, National Planning Commission. 2019. *Fifteenth Plan (FY2020–FY2024): Approach Paper*. Kathmandu (in Nepali).

² ADB. 2018. *Strategy 2030: Achieving a Prosperous, Inclusive, Resilient, and Sustainable Asia and the Pacific*. Manila.

continue efforts to support Nepalese banks in expanding trade opportunities through its Trade Finance Program by providing guarantees on their letters of credit. The recent agreement to support the Laxmi Bank, a local commercial bank, is an addition to ADB's long-standing engagement in this area. ADB will seek to expand its nonsovereign lending to financial institutions, particularly to promote priority areas, such as agribusiness, renewable energy, small business, and microfinance. During the COBP period, ADB expects to approve 2–3 medium-term loans to financial institutions, totaling up to \$50 million. The use of proceeds will be directed at priority sectors referenced above, in line with guidelines from the Nepal Rastra Bank (the central bank) on external commercial borrowing. ADB will also continue discussions with the Office of Investment Board of Nepal to provide upstream capacity-building support for public–private partnership and transaction advisory services mainly in infrastructure projects.

II. INDICATIVE RESOURCE PARAMETERS

7. Nepal, a group A developing member country, is eligible for concessional ordinary capital resources lending (COL). The indicative COL resource allocation for commitment for 2020–2022 is \$1,364.02 million. Of this, \$1,304.02 million is from country performance-based allocation, and \$60.0 million from the disaster risk reduction financing mechanism, including \$40.0 million in COL and \$20.0 million in grant.³ The final allocation will depend on available resources and the outcome of the country performance assessments in 2020. Funding from other sources, including the regional pool, regular ordinary capital resources (OCR) for eligible projects, and cofinancing from trust funds and development partners, will be explored.⁴ The 2018 debt distress classification of Nepal was assessed to be at *low* risk of debt distress.⁵ In accordance with ADB's Concessional Assistance Policy, Nepal will not receive any country allocation in grants in 2020–2022.⁶

8. The country assistance results areas are in Appendix 1, while lending and nonlending pipelines for 2020–2022 are in Appendix 3. The 3-year indicative firm lending program amounts to \$2,285 million and consists of resources from the country performance-based allocation, disaster risk reduction financing mechanism, regional set-aside, and OCR (to be requested for the Dudh Koshi Hydropower Project). The COBP includes substantial overprogramming to build a strong pipeline of projects. The final amount of assistance is subject to availability of resources and project readiness. A total of about \$40 million in official cofinancing is currently envisaged. The total nonlending program for 2020–2022 is \$13.92 million, including \$13.22 million in Technical Assistance Special Fund resources, and \$0.70 million in cofinancing, for knowledge solutions, project preparation, capacity building, and project implementation. Planned knowledge products and services, as well as innovation, advanced technology, and pilot initiatives, are listed in Appendix 5.

³ The 2020 program includes \$15 million DRR financing (\$5 million from Asian Development Fund grant and \$10 million from COL) carried over from the 2019 allocated resources.

⁴ Under the Graduation Policy, for group A developing member countries, ADB lending on regular OCR terms and ADB guarantees with counter-guarantees from a sovereign entity can be considered on a case-by-case basis for revenue-earning projects that (i) generate net foreign exchange above the foreign debt service requirements and (ii) meet other ADB lending criteria. (ADB. 1998. *A Graduation Policy for the Bank's Developing Member Countries*. Manila.)

⁵ International Monetary Fund. 2019. *Nepal–Staff Report for the 2018 Article IV Consultation*. Washington DC.

⁶ ADB. 2016. *Concessional Assistance Policy*. Manila.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2020–2022	Changes from Last COBP
1. Energy (CPS priority area: Renewable energy)			
Greater availability, reliability, and trade of renewable energy	Hydropower generation, electricity transmission and distribution, energy sector institutional capacity development	Amount: \$400 million from COL, \$350 million from regular OCR ^a Share of COBP envelope: 32.8%	Not applicable
2. Transport (CPS priority area: Transport infrastructure, logistics, and trade facilitation for domestic and international connectivity)			
More reliable, sustainable, and resilient transport	Air transport, road transport (nonurban), transport sector policies and institutional development	Amount: \$600 million from COL Share of COBP envelope: 26.2%	Not applicable
3. Water and Other Urban Infrastructure and Services (CPS priority area: Urban development)			
Urban planning and services improved	Urban water supply, urban sewerage and sanitation, urban policy, institutional and capacity development	Amount: \$465 million from COL Share of COBP envelope: 20.4%	Not applicable
4. Agriculture, Natural Resources, and Rural Development (CPS priority areas: High and sustainable agriculture production and productivity; environmental sustainability, and climate change and disaster risk reduction)			
Agricultural productivity and commercialization increased	Irrigation and drainage; value chain; capacity development	Amount: \$290 million from COL and \$10 million from ADF grants. Share of COBP envelope: 13.1%	Not applicable
Access to agricultural markets and rural services improved	Rural connectivity		
Resilience to climate change and disaster risks strengthened	Flood protection; water-based natural resource management		
5. Education (CPS priority area: Human capital development)			
Access to, and quality of, school education enhanced	Primary and secondary education	Amount: \$120 million from COL	Not applicable

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2020–2022	Changes from Last COBP
Employment-oriented technical and vocational education and training enhanced	Technical and vocational education and training	Share of COBP envelope: 5.3%	
6. Public Sector Management (CPS priority area: Policy reforms and capacity development of subnational governments for service delivery)			
Policy reforms and capacity of subnational governments to plan, budget, prepare, and implement projects and programs improved	Public administration, public expenditure and fiscal management, decentralization	Amount: \$50 million from COL Share of COBP envelope: 2.2%	Not applicable

ADB = Asian Development Bank; ADF = Asian Development Fund; COBP = country operations business plan; COL = concessional OCR lending; CPS = country partnership strategy; OCR = ordinary capital resources.

Note: Gender equality and social inclusion as well as environmental sustainability, and climate change and disaster risk reduction are mainstreamed across CPS priority areas.

^a Under the Graduation Policy, for group A developing member countries, ADB lending on regular OCR terms and ADB guarantees with counter-guarantees from a sovereign entity can be considered on a case-by-case basis for revenue-earning projects that (i) generate net foreign exchange above the foreign debt service requirements and (ii) meet other ADB lending criteria. (ADB. 1998. *A Graduation Policy for the Bank's Developing Member Countries*. Manila).

Source: Asian Development Bank estimates.

LIST OF LINKED DOCUMENTS

<http://www.adb.org/Documents/COBP/?id=NEP-2020>

1. Portfolio at a Glance: Nepal

INDICATIVE ASSISTANCE PIPELINE

Table A3.1: Lending Products, 2020–2022

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority ^f	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
2020 Firm												
Priority River Basins Flood Risk Management Project ^b	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2019	65.0	0.0	40.0	10.0	50.0	15.0	0.0
South Asia Subregional Economic Cooperation Power Transmission and Distribution Systems Strengthening Project ^c	ENE	GI	OP1, OP2, OP3, OP4, OP6, OP7	SAEN		321.2	0.0	200.0	0.0	200.0	81.2	40.0
Tribhuvan International Airport Capacity Expansion Sector Development Program	TRA	GI	OP2, OP3, OP6, OP7	SATC		200.0	0.0	200.0	0.0	200.0	...	0.0
Second Kathmandu Valley Water Supply Sector Development Program	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW	2016	200.0	0.0	200.0	0.0	200.0	...	0.0
Total						786.2	0.0	640.0	10.0	650.0	96.2	40.0
2020 Standby												
Dudh Koshi Hydropower Project ^d	ENE	GI	OP3, OP4, OP7	SAEN		590.0	350.0	200.0	0.0	550.0	40.0	TBD
Support for Reforms to Strengthen Devolved Service Delivery (policy-based lending)	PSM	GI	OP1, OP2, OP4, OP6	SAPF		50.0	0.0	50.0	0.0	50.0	0.0	0.0
South Asia Subregional Economic Cooperation Highway Enhancement Project	TRA	GI	OP2, OP3, OP4, OP6, OP7	SATC		270.0	0.0	200.0	0.0	200.0	70.0	0.0
Total						910.0	350.0	450.0	0.0	800.0	110.0	0.0

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority ^f	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
2021 Firm												
Targeted Support for Agriculture Value Chain Development Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER	2017	65.0	0.0	50.0	0.0	50.0	15.0	0.0
Improved Access to Skills for Productive Employment Project	EDU	GI	OP1, OP2, OP6	SAHS		85.0	0.0	70.0	0.0	70.0	15.0	0.0
Dudh Koshi Hydropower Project ^d	ENE	GI	OP3, OP4, OP7	SAEN		590.0	350.0	200.0	0.0	550.0	40.0	TBD
Support for Reforms to Strengthen Devolved Service Delivery (policy-based lending)	PSM	GI	OP1, OP2, OP4, OP6	SAPF		50.0	0.0	50.0	0.0	50.0	0.0	0.0
South Asia Subregional Economic Cooperation Highway Enhancement Project	TRA	GI	OP2, OP3, OP4, OP6, OP7	SATC		270.0	0.0	200.0	0.0	200.0	70.0	0.0
Melamchi Water Supply Project, Phase 2	WUS	GI	OP1, OP2, OP3, OP4, OP5, OP6	SAUW		205.0	0.0	165.0	0.0	165.0	40.0	0.0
Total						1,265.0	350.0	735.0	0.0	1,085.0	180.0	0.0
2021 Standby												
Mechanized Irrigation Innovation Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		120.0	0.0	100.0	0.0	100.0	20.0	0.0
Second Supporting School Sector Development Plan (results-based lending)	EDU	GI	OP1, OP2, OP3, OP4	SAHS		50.0	0.0	50.0	0.0	50.0
Total						170.0	0.0	150.0	0.0	150.0	20.0	0.0
2022 Firm												
Rural Connectivity Improvement Program (tranche 1) ^e	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		120.0	0.0	100.0	0.0	100.0	20.0	0.0
Mechanized Irrigation Innovation Project	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		120.0	0.0	100.0	0.0	100.0	20.0	0.0
Second Supporting School Sector Development Plan (results-based lending)	EDU	GI	OP1, OP2, OP3, OP4	SAHS		50.0	0.0	50.0	0.0	50.0

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority ^f	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
Second SASEC Highway Enhancement Project	TRA	GI	OP2, OP3, OP6, OP7	SATC		270.0	0.0	200.0	0.0	200.0	70.0	0.0
Urban Development Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW		120.0	0.0	100.0	0.0	100.0	20.0	0.0
Total						680.0	0.0	550.0	0.0	550.0	130.0	0.0
2022 Standby												
Support for Devolved Education Project: Making Schools Work	EDU	GI	OP1, OP2, OP3, OP6	SAHS		60.0	0.0	50.0	0.0	50.0	10.0	0.0
Tribhuvan International Airport Capacity Expansion Project	TRA	GI	OP2, OP3, OP6, OP7	SATC		370.0	0.0	350.0	0.0	350.0	20.0	0.0
Improving Water Supply and Sanitation Services in Urban Municipalities Project	WUS	GI	OP1, OP2, OP3, OP4, OP6	SAUW		125.0	0.0	100.0	0.0	100.0	25.0	0.0
Total						555.0	0.0	500.0	0.0	500.0	55.0	0.0

... = not available; ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; EDU = education; ENE = energy; GI = general intervention; Gov't = government; OCR = ordinary capital resources; PRF = project readiness financing; PSM = public sector management; 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 Finance and Public Sector Management; SASEC = South Asia Subregional Economic Cooperation; 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.

^a Given the provisional nature of the indicative lending program, the composition of lending instruments in the actual loan delivery may change. The lending program includes ADF grants.

^b Includes a \$20 million loan and a \$10 million grant from disaster risk reduction allocation.

^c Possible cofinancing from Norway.

^d Includes \$100 million to be requested from regional set-aside. Financing from regular OCR is proposed for high revenue-earning projects that generate net foreign exchange earnings exceeding the foreign debt service, in accordance with ADB's Graduation Policy for developing member countries. (ADB. 1998. *A Graduation Policy for the Bank's Developing Member Countries*. Manila.)

^e The total indicative amount of the multitranches financing facility is \$500 million.

^f OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; and OP7 = fostering regional cooperation and integration.

Source: Asian Development Bank estimates.

Table A3.2: Nonlending Products and Services, 2020–2022

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2020								
Implementation Support for the Priority River Basin Flood Risk Management Project (attached)	ANR	SAER	TRTA	TASF	500.0			500.0
Preparing the Rural Connectivity Improvement Program	ANR	SAER	TRTA	TASF	500.0			500.0
Preparing the Second Supporting School Sector Development Plan	EDU	SAHS	TRTA	TASF	500.0			500.0
Preparing the Improved Access to Skills for Productive Employment Project	EDU	SAHS	TRTA	TASF	500.0			500.0
Institutional Strengthening of Energy Sector	ENE	SAEN	TRTA	TASF	500.0			500.0
Implementation Support for South Asia Subregional Economic Cooperation Power Transmission and Distribution System Strengthening Project (attached)	ENE	SAEN	TRTA	TASF	500.0			500.0
Supporting the Implementation of the Tribhuvan International Airport Capacity Expansion Sector Development Program (attached)	TRA	SATC	TRTA	TASF	500.0			500.0
Implementation Support for Reforms to Strengthen Kathmandu Valley Water Supply (supplementary)	WUS	SAUW	TRTA	TASF	1,000.0			1,000.0
Institutional Reforms for Governance Risks Mitigation	PSM	NRM	TRTA	TASF	500.0			500.0
Master Plan for Transport Connectivity	TRA	SATC	KSTA	TASF	1,000.0			1,000.0
Economic Policy and Planning for Subnational Governments	PSM	NRM	KSTA	TASF	500.0			500.0
Implementation of the Nepal Knowledge Plan	PSM	NRM	KSTA	TASF	225.0			225.0
Total					6,725.0			6,725.0
2021								
Implementation Support for the Agriculture Value Chain Development Project (attached)	ANR	SAER	TRTA	TASF	500.0			500.0
Implementation Support for the Improved Access to Skills for Productive Employment Project (attached)	EDU	SAHS	TRTA	TASF	500.0			500.0
Implementation Support for the Dudh Koshi Hydropower Project (attached)	ENE	SAEN	TRTA	TASF	500.0			500.0

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Portfolio Management and Capacity Development for Enhanced Portfolio Performance (supplementary)	ENE	NRM	TRTA	TASF	750.0			750.0
Implementation Support for Reforms to Strengthen Devolved Service Delivery (attached)	PSM	SAPF	TRTA	TASF	500.0			500.0
Implementation Support for South Asia Subregional Economic Cooperation Highway Enhancement (attached)	TRA	SATC	TRTA	TASF	500.0			500.0
Total					3,250.0			3,250.0
2022								
Support for the Mechanized Irrigation Innovation Project (attached)	ANR	SAER	TRTA			NDF	700.0	700.0
Implementation Support for the Rural Connectivity Improvement Program (attached)	ANR	SAER	TRTA	TASF	750.0			750.0
Implementation Support for the Second School Sector Development Plan (attached)	EDU	SAHS	TRTA	TASF	750.0			750.0
Implementation Support for Second South Asia Subregional Economic Cooperation Highway Enhancement (attached)	TRA	SATC	TRTA	TASF	750.0			750.0
Implementation Support for the Second Kathmandu Valley Water Supply Project (supplementary)	WUS	SAUW	TRTA	TASF	1,000.0			1,000.0
Total					3,250.0		700.0	3,950.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; KSTA = knowledge and support technical assistance; NDF = Nordic Development Fund; NRM = Nepal Resident Mission; PSM = public sector management; 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 Finance and Public Sector Management; 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; WUS = water and other urban infrastructure and services. Source: Asian Development Bank estimates.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A4.1: Lending Products, 2019

Project/Program Name ^a	Sector	Poverty Targeting	Priority Area ^c	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
Firm												
Bagmati River Improvement Project (additional financing)	ANR	GI	OP1, OP2, OP3, OP4, OP5, OP6	SAER	2017	78.8	0.0	63.0	0.0	63.0	15.8	0.0
Food Safety and Agriculture Commercialization Program (policy-based lending)	ANR	GI	OP1, OP2, OP3, OP5, OP6	SAER		50.0	0.0	50.0	0.0	50.0	0.0	0.0
Rural Enterprise Financing Project	FIN	GI	OP1, OP2, OP6	SAPF		50.0	0.0	50.0	0.0	50.0	0.0	0.0
South Asia Subregional Economic Cooperation Mugling–Pokhara Highway Improvement Project, Phase 1 ^b	TRA	GI	OP2, OP3, OP6, OP7	SATC		262.0	0.0	195.0	0.0	195.0	67.0	0.0
Total						440.8	0.0	358.0	0.0	358.0	82.8	0.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; FIN = finance; GI = general intervention; Gov't = government; OCR = ordinary capital resources; PRF = project readiness financing; SAER = South Asia Environment, Natural Resources and Agriculture Division; SAPF = South Asia Finance and Public Sector Management Division; SATC = South Asia Transport and Communications Division; TRA = transport; TRTA = transaction technical assistance.

^a Given the provisional nature of the indicative lending program, the composition of lending instruments in the actual loan delivery may change. Investment lending accounted for 87% of sovereign lending commitments in 2016–2018, while conventional policy-based lending was 11% and results-based lending was 2%.

^b Includes \$50 million from regional set-aside.

^c OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; and OP7 = fostering regional cooperation and integration.

Source: Asian Development Bank estimates.

Table A4.2: Nonlending Products and Services, 2019

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Implementing Reform Actions for Transformation of Nepal's Agriculture (attached)	ANR	SAER	TRTA	TASF	500.0			500.0
Capacity Building of the Bagmati River Basin Water Management Institutions (attached)	ANR	SAER	TRTA	TASF	600.0			600.0
Power Transmission and Distribution Efficiency Enhancement Project (supplementary)	ENE	SAEN	TRTA	TASF	500.0			500.0
Supporting Policies and Implementation in the School Sector (supplementary)	EDU	SAHS	TRTA			Norway	391.0	391.0
Portfolio Management and Capacity Development for Enhanced Portfolio Performance	ENE	NRM	F-TRTA	TASF	1,500.0			1,500.0
Rural Enterprise Financing Project (attached)	FIN	SAPF	TRTA	TASF	500.0	FSDPSF	250.0	750.0
Preparing Aviation Sector Capacity Project	TRA	SATC	TRTA	TASF	1,000.0			1,000.0
Implementation Support for the Second South Asia Subregional Economic Cooperation Mugling–Pokhara Highway Improvement Project (attached)	TRA	SATC	TRTA	TASF	500.0			500.0
Total					5,100.0		641.0	5,741.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; FIN = finance; FSDPSF = Financial Sector Development Partnership Special Fund; F-TRTA = facility-transaction technical assistance; NRM = Nepal Resident Mission; 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 Finance and Public Sector Management Division; SATC = South Asia Transport and Communications Division; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance.
Source: Asian Development Bank estimates.

INDICATIVE KNOWLEDGE PRODUCTS AND EVENTS

Table A5.1: Knowledge Products and Events for 2020

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
2017 International Comparison Program in Asia and the Pacific: Main Report	Capacity development and public sector management	Publication and documentation	ERCD	TA 9238
2020 International Comparison Program: Regional Technical Evaluation and Review Workshop	Capacity development and public sector management	Event	ERCD	TA 9238
Analysis of Government's Annual Budget Statement	Economics	Publication and documentation	SARD	Administrative core budget (staff)
Analysis of Central Bank's Monetary Policy 2020	Economics	Publication and documentation	SARD	Administrative core budget (staff)
Asian Development Outlook 2020 and Update	Economics	Publication and documentation	ERCD	TA/administrative core budget (staff)
Back-to-Back National Implementing Agency Heads/Regional Advisory Board Meetings	Capacity development and public sector management	Event	ERCD	TA 9238
Basic Statistics 2020	Capacity development, governance and public sector management	Publication and documentation	ERCD	Administrative core budget (staff)
Case Studies in ADB Health Projects with Regional Departments	Health	Publication and documentation	SDCC	Administrative core budget (staff)
City Characteristics and Firm Performance	Economics	Publication and documentation	ERCD	TA 8522/ administrative core budget (staff)
Impact Evaluation of Support to Collective Action for Value Chain Development in Nepal	Agriculture and natural resources	Publication and documentation	ERCD	TA 9402
Key Indicators for Asia and the Pacific 2020 and Supplement	Economics	Publication and documentation	ERCD	TA 9659/ administrative Core budget (staff)
Land Pooling in Nepal	Urban development	Publication and documentation	SARD	Administrative core budget (staff)
Macroeconomic Update with issue focus (April and September issues)	Economics	Publication and documentation	SARD	Administrative core budget (staff)

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Poverty Purchasing Power Parities	Capacity development and public sector management	Publication and documentation	ERCD	TA 9238
Regional Technical Evaluation and Review Workshop: Preliminary Purchasing Power Parities	Regional cooperation and integration, private sector	Event	ERCD	TA 9238
Subregional Conference on Strategies for Smart, Safe, and Equitable Cities in South Asia	Regional cooperation and integration	Event	SARD	TA 8311
South Asia Subregional Economic Cooperation Nodal Officials and Working Group Meetings	Regional cooperation and integration, trade	Event	SARD	TA 9586
South Asia Subregional Economic Cooperation Customs Subgroup Meeting	Regional cooperation and integration, trade	Event	SARD	TA 9578
South Asia Subregional Economic Cooperation Finance Ministers' Meeting	Regional cooperation and integration, trade	Event	SARD	TA 9586
Sustainability of Rural Roads	Transport	Publication and documentation	SARD	Administrative core budget (staff)
Toward Inclusive Sanitation in South Asia: Status, Best Practices, and Lessons Learned	Water	Publication and documentation	SARD	Administrative core budget (staff)
Total number of publications = 14				
Total number of events = 7				

ADB = Asian Development Bank; ERCD = Economic Research and Regional Cooperation Department, SARD = South Asia Department, SDCC = Sustainable Development and Climate Change Department, TA = technical assistance.
Source: Asian Development Bank (E-nexus, accessed 9 and 10 July 2019).

Table A5.2: Additional Knowledge Products and Events Delivered in 2019

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
2017 International Comparison Program in Asia and the Pacific: Summary Report	Capacity development and public sector management	Publication and documentation	ERCD	TA 9238
2017 International Comparison Program Back-to-Back Regional Advisory Board Meeting/Regional Technical Evaluation and Review Workshop: 2017 International Comparison Program Preliminary Purchasing Power Parity Results and Initial Discussions on Household Surveys for 2020 International Comparison Program	Capacity development and public sector management	Event	ERCD	TA 9238
2017 International Comparison Program Back-to-back Expert Group Meeting and Regional Advisory Board Meeting	Capacity development and public sector management	Event	ERCD	TA 9238
2020 International Comparison Program Inception and Regional Advisory Board Meeting	Capacity development and public sector management	Event	ERCD	TA 9238
ADB–Asian Think Tanks Development Forum	Economics	Event	ERCD	TA 9537
Blog 2019-1: How much does our family background determine our chances of (socioeconomic) success?	Economics	Publication and documentation	ERCD	TA 9356/ administrative core budget (staff)
Climate Change Litigation Bench book	Governance and public sector management	Publication and documentation	OGC	TA 9279
Enabling Environment for Disaster Risk Financing in Nepal: Country Diagnostic Assessment	Finance	Publication and documentation	SDCC	TA 9007
Evolution of the Economies of Selected Developing Member Countries: A Study Based on Input–Output Economic Analysis Framework	Economics	Publication and documentation	ERCD	TA 9356
Exploring Strategies for Planned Urban Cluster Development in South Asia	Finance, urban development	Publication and documentation	SARD	TA 7997
Final Workshop for Nepal Urban Corridor Development	Urban development	Event	SARD	TA 8871
International Comparison Program: Regional Technical Evaluation and Review Workshop	Economics	Event	ERCD	TA 9238
Impact of Dams on Fish in the Rivers of Nepal	Climate change, environment	Publication and documentation	SARD	Administrative core budget (staff)/TA 7997

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Key Indicators Database (formerly Statistical Database System internet version)	Capacity development, governance and public sector management	Database	ERCD	TA 9409
Meeting of the South Asia Subregional Economic Cooperation Nodal Officials and Working Groups	Regional cooperation and integration	Event	SARD	TA 9586
Methodology for Measuring Purchasing Power Parities for housing	Capacity development and public sector management	Publication and documentation	ERCD	TA 9238
Microfinance for Disaster Recovery: Lessons from the 2015 Nepal Earthquake	Finance	Publication and documentation	SARD	TA 7997
Nepal: South Asia Subregional Economic Cooperation as a Tourist Destination Country Visit	Regional cooperation and integration	Event	SARD	TA 9231
Overcoming Challenges of Private Sector Participation in Hydropower Development in Nepal	Energy	Publication and documentation	SARD	Administrative core budget (staff)
Potential Exports and Nontariff Barriers to Trade: Nepal National Study	Regional cooperation and integration, trade	Publication and documentation	SARD	TA 9231
Regional and National Hub Training Workshop on Economic Analysis of Investment Projects (South Asia Department) for Developing Member Country Officials	Economics	Event	ERCD	TA 9693
Regional Training Workshop on Sustainable Development Goal Data Disaggregation using Big Data	Economics	Event	ERCD	TA 9356
South Asia Economic Summit (XII)	Economics	Event	SARD	TA 9586
Study on Coordinated Development of Border Infrastructure in Nepal–India Land Customs Stations	Regional cooperation and integration, trade	Publication and documentation	SARD	TA9231
Economic Effects of Participation in Global Value Chains: Country and Sector Level Analysis	Economics	Publication and Documentation	ERCD	TA 9238
Social Protection Indicator for Asia: Assessing Progress Results for Asia	Social development and protection	Publication and documentation	SDCC	TA 9534
Urban Health	Health	Publication and documentation	SDCC	TA 8983
Workshop on South Asia Subregional Economic Cooperation Routes Initiative Study	Regional cooperation and integration	Event	SARD	TA 9578
Total number of publications = 16				
Total number of events = 12				

ADB = Asian Development Bank, ERCD = Economic Research and Regional Cooperation Department, OGC = Office of the General Counsel, SARD = South Asia Department, SDCC = Sustainable Development and Climate Change Department, TA = technical assistance.

Source: Asian Development Bank (E-nexus, accessed 9 and 10 July 2019).

Table A5.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2020

Item	Nature	Project Number	Sector or Theme	Division
Use of smart grids and smart meters, and associated communications systems is being pursued under the Power Transmission and Distribution Efficiency Enhancement Project.	TCH		ENE	SAEN
Wildlife crossings will be built to maintain wildlife connectivity corridors in relevant sections of the East–West Highway.	PLT		TRA	NRM
Sensory control automated data acquisition will be used in water treatment plants and transmission mains in Kathmandu Valley.	TCH		WUS	SAUW

Total number of innovation, advanced technology, and pilot initiatives = 3

ENE = energy; NRM = Nepal Resident Mission; PLT = pilot initiative; SAEN = Energy Division, South Asia Department; SAUW = Urban Development and Water Division, South Asia Department; TCH = advanced technology; TRA = transport; WUS = water and other urban infrastructure and services.

Source: Asian Development Bank.