



Country Operations Business Plan

September 2017

Nepal
2018–2020

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 21 August 2017)

Currency unit	–	Nepalese rupee/s (NRe/NRs)
NRe1.00	=	\$0.009
\$1.00	=	NRs102.33

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional ordinary capital resources lending
CPS	–	country partnership strategy
DRR	–	disaster risk reduction
GDP	–	gross domestic product
OCR	–	ordinary capital resources
TA	–	technical assistance

NOTES

- (i) The fiscal year (FY) of the Government of Nepal ends on 15 July. “FY” before a calendar year denotes the year in which the fiscal year ends, e.g., FY2017 ends on 15 July 2017.
- (ii) In this report, “\$” refers to US 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) is consistent with ADB's country partnership strategy (CPS), 2013–2017 for Nepal, which focuses on infrastructure and human capital development, and agricultural transformation.¹ It is also aligned with the Government of Nepal's Fourteenth Plan, FY2017–FY2019 and ADB's Midterm Review of Strategy 2020.²

2. **Political developments.** Nepal's federal system of government currently includes a federal (central) government, 7 provincial governments, and 744 local governments (4 metropolitan, 13 sub-metropolitan, 246 municipality, and 481 rural municipality governments).³ The constitution mandates that elections for all levels of government—local, provincial, and national—be completed by 21 January 2018. After the first phase of local elections was completed on 14 May 2017, P. K. Dahal (chairperson of the Communist Party of Nepal, Maoist Centre) resigned as Prime Minister on 24 May 2017, paving the way for Nepali Congress, the major ruling coalition partner, to form a new government as per the agreement reached between the two parties at the time of Dahal's election as Prime Minister. Following the resignation, S. B. Deuba of Nepali Congress was elected Prime Minister on 6 June 2017 with the support of the Communist Party of Nepal, Maoist Centre, the Rastriya Prajatantra Party, and several smaller parties.

3. The second phase of local elections was completed on 28 June 2017, and the third phase in one remaining province is scheduled for 18 September 2017. The government has announced that provincial and federal elections will be held on 26 November 2017.

4. **Economic overview.** Gross domestic product (GDP) growth slowed from 3.0% in FY2015 to an estimated 0.01% in FY2016, reflecting (i) the loss of incomes and productive capacity from the large earthquakes in April and May 2015; (ii) delays in post-earthquake reconstruction; (iii) unrest in the Terai region (bordering India), which contributed to a disruption in supplies and trade during September 2015–February 2016; and (iv) 2 years of unfavorable monsoons. The Central Bureau of Statistics estimates that economic growth improved to 6.9% in FY2017 as the adverse effects of trade and supply disruption from the Terai unrest receded, the monsoon was more favorable, electricity brownouts have decreased since October 2016, and post-earthquake reconstruction accelerated with the operationalization of the National Reconstruction Authority in early 2016.

5. Inflationary pressures subsided to 4.5% in FY2017 with the normalization of trade, higher agricultural output, and the decline in inflation in India, to whose currency the Nepalese rupee is pegged. The external current account posted a sizeable surplus in FY2016. Trade disruptions and a stronger inflation-adjusted exchange rate contributed to a decline in merchandise imports. A healthy flow of remittances contributed to a current account surplus amounting to 6.2% of GDP and the increase of foreign exchange reserves to \$9.7 billion (amounting to about 14 months of imports of goods and non-factor services). In FY2017, imports increased sharply, reflecting pent-up demand and increased economic activity, while exports grew at a slower, but healthy, rate. With the growth of remittances moderating, the current account posted a small deficit of 0.4% of GDP.

¹ ADB. 2013. *Country Partnership Strategy: Nepal, 2013–2017*. Manila.

² Government of Nepal, National Planning Commission. 2016. *Fourteenth Plan, FY2017–2019*; ADB. 2014. *Midterm Review of Strategy 2020: Meeting the Challenges of a Transforming Asia and Pacific*. Manila.

³ The government announced an additional nine local bodies in Province 2, but details are not yet available.

6. The fiscal position showed a small deficit of –0.3% of GDP in FY2016, underpinned by robust revenue growth and low capital spending. Capital expenditures were 56% of the budgeted amount in FY2016, compared to 77%, on average, in FY2012–FY2015, due to supply disruptions and a delay in post-earthquake reconstruction. To scale up much-needed public investment in essential infrastructure, a major push in project implementation (including investment planning, project design and readiness, procurement, and contract management) is needed.

7. **Country operations business plan.** This COBP will extend the current CPS by 2 years through December 2019 for the following reasons. The priority sectors of support in the current CPS are aligned with the government’s Fourteenth Plan for FY2017–FY2019. The strategic focus of the current CPS is continuously valid for the COBP period. Furthermore, the extension of the current CPS allows (i) the next CPS to be aligned with the government’s medium-term plan from FY2020 onward, (ii) greater clarity on strategic priorities to support the country’s ongoing transition towards federalism, and (iii) continued focus on improving portfolio implementation.⁴

8. The government adopted the Fourteenth Plan in January 2017 with the aim of achieving socioeconomic transformation and reducing poverty through high economic growth, productive employment, and just distribution. The plan’s strategic priorities include (i) developing infrastructure in energy, road and air transport, information and communication, and rural–urban and transnational connectivity; (ii) increasing output through agricultural transformation and the expansion of tourism, industries, and small- and medium-sized enterprises; and (iii) extensive, sustainable improvement in human development with a focus on social development and social protection. The plan places equal importance on cross-cutting issues such as good governance, gender equality and inclusion, the environment, and institutional capacity.

9. The COBP will support (i) better road and air connectivity including urban transport and rural connectivity; (ii) sustainable urban development including water supply and sanitation improvements; (iii) energy investments in regional interconnection, clean energy (renewable energy and energy efficiency), and distributed energy resources (energy storage systems, demand response, and electric vehicles); (iv) upgrading skills and education; (v) water resources development and management; and (vi) stronger agriculture value chains. ADB will continue to deepen its support for (i) gender equality and social inclusion; (ii) better governance and capacity development; (iii) environmental sustainability including climate change adaptation and mitigation, and disaster risk reduction; (iv) regional cooperation and integration; (v) private sector development; (vi) knowledge solutions; and (vii) partnerships.

10. As envisaged in the current CPS, engagement in private sector development will comprise (i) financial assistance to private sector projects with bankable structures and sound fundamentals; (ii) reforms that support access to finance; (iii) creating an enabling environment; (iv) transaction advisory services; and (v) public–private partnerships in selective sectors. ADB helped the government prepare the draft Public-Private Partnership Act, approval of which will pave the way for further ADB engagement. Building on earlier discussions, ADB is exploring the possibility of drawing on the Asia-Pacific Project Preparation Facility to support the proposed PPP Centre to prepare projects and build capacity. Further, ADB’s Private Sector Operations Department led initial discussions to explore long-term lending to infrastructure sectors, especially hydroelectric power generation, through local commercial banks.

⁴ As of 30 June 2017, ADB’s active investment portfolio included 33 projects amounting to \$2,285.5 million. The cumulative contracted amount is \$1,307.1 million (57%) and disbursements amounted to \$772.9 million (34%).

II. INDICATIVE RESOURCE PARAMETERS

11. Nepal, a group A developing member country, is eligible for concessional ordinary capital resources lending (COL).⁵ The indicative resources available for commitment for 2018–2020 is \$968.23 million (\$953.23 million from COL, including \$30 million from disaster risk reduction (DRR) facility, and \$15 million grant from the DRR facility).⁶ In addition, Nepal received an allocation of \$110 million from the concessional regional pool. The final biennial allocation for 2019–2020 will depend on available resources and the outcome of the 2018 country performance assessment. The 2017 debt distress classification assessed Nepal as being at low risk of debt distress.⁷ In accordance with the Asian Development Fund grants framework, Nepal is to receive no country allocation in grants in 2017–2018. Funding from other sources, including the regional set-aside, regular ordinary capital resources (OCR) lending, and cofinancing from trust funds and development partners, will be explored.⁸

12. The country assistance results areas are in Appendix 1 and the investment and technical assistance (TA) programs are in Appendixes 2 and 3. The 2018–2020 firm lending program consists of \$1,646 million, including resources from the DRR facility, regional set-aside, and regular OCR. The COBP includes substantial overprogramming (also listed as standby projects) to build a strong pipeline of projects that can be considered for ADB financing once high-readiness criteria are met. The final amount of assistance is subject to availability of resources and project readiness. To enhance project readiness, provisions for the detailed design of projects will be made through ongoing projects, establishing a project development facility for upcoming projects, or project design advances, as appropriate. A total of about \$375 million in official and commercial cofinancing is currently envisaged.

13. The 2018–2020 TA program amounts to \$16.25 million, including \$11.35 million in TA Special Fund resources and \$4.90 million in trust funds and other cofinancing, mainly for project preparation and capacity development. Knowledge products and services as well as innovation, advanced technology, and pilot initiatives are listed in Appendix 4.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

14. The following changes have been made to the 2018–2020 program at the government's request and based on the current level of project readiness:

- **Energy.** The total allocation for the Power Transmission and Distribution Efficiency Enhancement Project II has been increased from \$100 million to \$150 million, including \$60 million to be sought from the regional set-aside. At the government's request, the Energy Sector Reform Program has been postponed from 2017 standby to 2018 standby. The 2018 standby Hydroelectricity Financing Facility has been moved to 2020 standby due to low project readiness.

⁵ Terminology reflects the combination of Asian Development Fund (ADF) lending operations with the ordinary capital resources (OCR) balance sheet that took effect on 1 January 2017.

⁶ The DRR aims to strengthen disaster resilience and to help spur investment. This additional financing will support (i) stand-alone DRR projects; (ii) discrete DRR components of other grant and loan projects; and (iii) the incremental cost in strengthening the disaster resilience of infrastructure investments.

⁷ International Monetary Fund. *Nepal: 2017 Article IV Consultation—Debt Sustainability Analysis*, IMF Country Report No. 17/74. <http://www.imf.org/external/pubs/ft/dsa/pdf/2017/dsacr1774.pdf>

⁸ Regular OCR lending may be considered on an exceptional basis for projects that have foreign exchange earnings and can fully service their foreign debt from their net foreign exchange earnings (ADB. 1998. *A Graduation Policy for the Bank's DMCs*. Manila).

- **Water and other urban infrastructure and services.** At the government's request, the Second Kathmandu Valley Water Supply Improvement Project, previously planned for 2019, is now split into (i) the 2018 Melamchi Water Supply Project Phase 2 (\$100 million), and (ii) the 2020 Second Kathmandu Valley Water Supply Improvement Project (\$100 million). The Third Small Towns Water Supply and Sanitation Project—Additional Financing, has been advanced from 2019 standby to 2018 standby, and its allocation increased from \$70 million to \$100 million.
- **Education.** The 2019 results-based lending program for skills development has been recategorized as a project loan. The project design advance for Strengthening Higher Engineering Education is postponed to 2018 due to a delay in the achievement of readiness. The total allocation for the Disaster Risk Resilience for Public Schools Infrastructure and Communities Project (formerly Disaster Resilience Building for Schools and Communities Project) increased from \$40 million to \$106 million, including \$30 million from the DRR facility.
- **Transport.** The COL allocation for the 2018 South Asia Subregional Economic Cooperation (SASEC) Road Connectivity Program (Tranche 1) increased from \$30 million to \$90 million; similarly, the total allocation, including regional set-aside, increased from \$90 million to \$150 million. A TA loan for \$10 million to support the preparation of urban transport projects in 2019 has been introduced. Two new projects—the SASEC Road Connectivity Program (Tranche 2) and Tribhuvan International Airport Building Modernization Program (Tranche 1)—have been included as standby in 2020.
- **Agriculture, natural resources, and rural development.** The ADS Implementation Support Program has been renamed the Targeted Value Chain Development Project and moved to 2019 standby, and its allocation increased from \$40 million to \$70 million. Similarly, the ADS Rural Infrastructure Support Sector Project has been renamed the Rural Connectivity Improvement Project and rescheduled as 2017 standby, with its allocation revised from \$110 million to \$100 million. The Bagmati River Basin Improvement Project—Additional Financing has been moved from 2018 to 2019, and its allocation increased from \$40 million to \$50 million. The Irrigation Development Project, previously standby in 2019, has been replaced by the Mechanized Irrigation Innovation Project and Priority River Basin Flood Risk Management Project, both standby in 2020.
- **Public sector management.** After consultation with the government, the Strengthening Subnational Public Management Program has been postponed from 2018 standby to 2019 standby.
- **Technical assistance program.** The 2018–2020 TA program has been adjusted in line with the changes to the lending program.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from Last COBP
1. Energy			
Enhanced and reliable use of electricity Increased cross-border energy trade	Large hydropower generation, renewable energy generation, electricity transmission and distribution, energy sector policy, institutional reforms	Amount: \$300 million from COL, \$350 million from regular OCR, and \$200 million in cofinancing Share of COBP envelope: 39.4%	<ul style="list-style-type: none"> • COL under PTDEEP II increased from \$100 million to \$150 million (including \$60 million to be sought from regional set-aside).
2. Water and Other Urban Infrastructure and Services			
Increased use of water supply and sanitation services	Urban water supply, urban sewerage and sanitation, urban policy, institutional and capacity development	Amount: \$300 million from COL and \$115 million in cofinancing Share of COBP envelope: 18.2%	<ul style="list-style-type: none"> • Previously planned 2019 SKVWSIP restructured as (i) 2018 MWSP Phase 2 (\$100 million), and (ii) 2020 SKVWSIP for \$100 million. • 2019 standby TSWTSSP (AF) advanced to 2018 standby with allocation increased from \$70 million to \$100 million.
3. Education			
Increased educational attainment for both men and women, including socially excluded groups, and a better skilled labor force	Technical and vocational education and training, secondary and tertiary education, upper secondary education (support for school sector development plan)	Amount: \$251 million from COL (including \$5 million PDA) Share of COBP envelope: 15.2%	<ul style="list-style-type: none"> • 2019 RBL on skills development recategorized as project loan. • PDA for SHEE moved from 2017 to 2018 due to process delay. • DRBSCP renamed DRRPSICP, and total allocation increased from \$40 million to \$106 million, including \$30 million from DRR facility.

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from Last COBP
4. Transport			
Enhanced global–local connectivity	Air transport, road transport (nonurban), transport policies, institutional development	Amount: \$230 million from COL Share of COBP envelope: 13.9%	<ul style="list-style-type: none"> • COL allocation for 2018 SRCP (Tranche 1) increased from \$30 million to \$90 million; total allocation, including regional set-aside, increased to \$150 million. • TA loan introduced for urban transport projects.
5. Agriculture, Natural Resources, and Rural Development			
Increased agricultural production, productivity, and food security	Irrigation, drainage, and flood protection; water-based natural resource management; agriculture and rural sector development (rural infrastructure); capacity development	Amount: \$220 million from COL and \$60 million in cofinancing Share of COBP envelope: 13.3%	<ul style="list-style-type: none"> • AISP renamed TVCDP and moved to 2019 standby; allocation increased from \$40 million to \$70 million. • ARISP renamed RCIP and moved to 2017 standby; allocation reduced from \$110 million to \$100 million. • BRBIP-AF moved from 2018 to 2019; allocation increased from \$40 million to \$50 million.
6. Public Sector Management			
Enhanced efficiency, effectiveness, transparency, and accountability of public finances at the national and subnational levels	Public management, public expenditure and fiscal management, decentralization	Amount: \$0 from COL (2019 standby) Share of COBP envelope: 0%	<ul style="list-style-type: none"> • SSPMP moved from 2018 standby to 2019 standby.

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from Last COBP
7. Industry and Trade			
Increased contribution of exports to gross domestic product through the promotion of domestic and international trade	Industry and trade sector development, trade and services	Amount: \$0 from COL (no investment project) Share of COBP envelope: 0%	<ul style="list-style-type: none"> • SCRMTFP (PBL), the only program under this sector, was approved in July 2017.

ADB = Asian Development Bank; ADS = Agricultural Development Strategy; AF = additional financing; AISP = ADS Implementation Support Program; ARISP = ADS Rural Infrastructure Support Sector Project; BRBIP = Bagmati River Basin Improvement Project; COBP = country operations business plan; COL = concessional ordinary capital resources lending; DRBSCP = Disaster Resilience Building for Schools and Communities Project; DRR = Disaster Risk Resilience; DRRPSICP = Disaster Risk Resilience for Public School Infrastructure and Communities Project; MWSP = Melamchi Water Supply Project; OCR = ordinary capital resources; PBL = policy based lending; PDA = project design advance; PTDEEP II = Power Transmission and Distribution Efficiency Enhancement Project II; RBL = results-based lending; RCIP = Rural Connectivity Improvement Project; SASEC = South Asia Subregional Economic Cooperation; SCRMTFP = SASEC Customs Reform and Modernization for Trade Facilitation Program; SHEE = Strengthening Higher Engineering Education; SKVWSIP = Second Kathmandu Valley Water Supply Improvement Project; SRCP = SASEC Road Connectivity Program, SSPMP = Strengthening Subnational Public Management Program; TSTWSSP = Third Small Towns Water Supply and Sanitation Project; TVCDP = Targeted Value Chain Development Project.

Note: The indicative resources only include projects in the firm pipeline.

Source: ADB estimates.

INDICATIVE ASSISTANCE PIPELINE

Table A2.1: Lending Products, 2018–2020

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						Total ^a	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
2018 Firm												
Rural Connectivity Improvement Project	ANR	TI-G	IEG, GCD, GEM	SAER	2015	135.7	0.0	100.0	0.0	100.0	35.7	0.0
Disaster Risk Resilience for Public School Infrastructure and Communities Project ^b	EDU	GI	IEG, ESG, EGM, GCD, KNS, PAR	NRM	-	176.0	0.0	96.0	10.0	106.0	70.0	0.0
SASEC Road Connectivity Program MFF (Tranche 1) ^c	TRA	GI	IEG, RCI, SGE, PSD, GCD	SATC	-	175.0	0.0	150.0	0.0	150.0	25.0	0.0
Melamchi Water Supply Project Phase 2	WUS	GI	ESG, SGE, GCD, KNS, PAR	SAUW	-	185.0	0.0	100.0	0.0	100.0	20.0	65.0
Strengthening Higher Engineering Education Project (PDA) ^d	EDU	GI	IEG, EGM, PSD, GCD, KNS	SAHS	-	5.0	0.0	5.0	0.0	5.0	0.0	0.0
Total						671.7	0.0	446.0	10.0	456.0	150.7	65.0
2018 Standby												
Bagmati River Basin Improvement Project (AF) ^e	ANR	GI	ESG, EGM, GCD, PAR	SAER	2017	80.0	0.0	50.0	0.0	50.0	10.0	20.0
Nepal Energy Sector Reform Program (PBL) ^f	ENE	GI	IEG, ESG, PSD, GCD	SAEN	-	100.0	0.0	100.0	0.0	100.0	0.0	0.0
Third Small Towns Water Supply and Sanitation Project (AF)	WUS	TI-G	ESG, GEM, GCD, PAR	SAUW	-	120.0	0.0	100.0	0.0	100.0	20.0	0.0
Total						300.0	0.0	250.0	0.0	250.0	30.0	20.0
2019 Firm												
Bagmati River Basin Improvement Project (AF) ^e	ANR	GI	ESG, EGM, GCD, PAR	SAER	2017	80.0	0.0	50.0	0.0	50.0	10.0	20.0
Skills Development Project	EDU	GI	IEG, GEM, GCD	SAHS	2018	85.0	0.0	70.0	0.0	70.0	15.0	0.0
Power Transmission and Distribution Efficiency Enhancement Project II ^g	ENE	GI	IEG, ESG, PSD, GCD	SAEN	-	175.0	0.0	150.0	0.0	150.0	25.0	0.0

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/ PDA	Cost (\$ million)						
						Total ^a	ADB			Gov't	Co-finance	
							Regular OCR	COL	ADF Grants			Total
TIA Capacity Enhancement MFF (Tranche 1) ^h	TRA	GI	IEG, RCI, GCD	SATC	-	90.0	0.0	70.0	0.0	70.0	20.0	0.0
Third Small Towns Water Supply and Sanitation Project (AF)	WUS	TI-G	ESG, GEM, GCD, PAR	SAUW	-	120.0	0.0	100.0	0.0	100.0	20.0	0.0
Preparing Urban Transport Projects (TA Loan)	TRA	GI	ESG, GEM	SATC	-	10.0	0.0	10.0	0.0	10.0	0.0	0.0
Total						560.0	0.0	450.0	0.0	450.0	90.0	20.0
2019 Standby												
Targeted Value Chain Development Project ⁱ	ANR	GI	IEG, ESG, EGM, GCD, PAR, PSD, PAR	SAER	2017	125.0	0.0	70.0	0.0	70.0	15.0	40.0
Strengthening Higher Engineering Education Project	EDU	GI	IEG, EGM, PSD, GCD, KNS	SAHS	2015	85.0	0.0	70.0	0.0	70.0	15.0	0.0
Strengthening Subnational Public Management Program (PBL)	PSM	GI	SGE, GCD, KNS, PAR	SAPF	-	70.0	0.0	50.0	0.0	50.0	0.0	20.0
Second Kathmandu Valley Water Supply Improvement Project	WUS	GI	ESG, SGE, GCD, KNS, PAR	SAUW	2016	250.0	0.0	100.0	0.0	100.0	100.0	50.0
Total						530.0	0.0	290.0	0.0	290.0	130.0	110.0
2020 Firm												
Targeted Value Chain Development Project ⁱ	ANR	GI	IEG, ESG, EGM, GCD, PAR, PSD, PAR	SAER	2017	125.0	0.0	70.0	0.0	70.0	15.0	40.0
Strengthening Higher Engineering Education Project	EDU	GI	IEG, EGM, PSD, GCD, KNS	SAHS	2015	85.0	0.0	70.0	0.0	70.0	15.0	0.0
Dudh Koshi Hydropower Project ^j	ENE	GI	IEG, ESG, RCI, PSD, PAR	SAEN	-	740.0	350.0	150.0	0.0	500.0	40.0	200.0
Second Kathmandu Valley Water Supply Improvement Project	WUS	GI	ESG, SGE, GCD, KNS	SAUW	2016	250.0	0.0	100.0	0.0	100.0	100.0	50.0
Total						1,200.0	350.0	390.0	0.0	740.0	170.0	290.0

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/ PDA	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total ^a	Regular OCR	COL	ADF Grants	Total		
2020 Standby												
Mechanized Irrigation Innovation Project	ANR	GI	EGM, GCD, PAR	SAER	-	110.0	0.0	60.0	0.0	60.0	20.0	30.0
Priority River Basin Flood Risk Management Project	ANR	GI	ESG, GCD	SAER	-	65.0	0.0	50.0	0.0	50.0	15.0	0.0
SASEC Road Connectivity Program MFF (Tranche 2) ^k	TRA	GI	IEG, RCI, SGE, PSD, GCD	SATC	-	175.0	0.0	150.0	0.0	150.0	25.0	0.0
TIA Building Modernization Program MFF (Tranche 1) ^l	TRA	GI	IEG, RCI, GCD	SATC	-	125.0	100.0	0.0	0.0	100.0	25.0	0.0
Hydroelectricity Financing Project	ENE	GI	IEG, ESG, PSD, GCD	SAPF	-	50.0	50.0	0.0	0.0	50.0	0.0	0.0
Total						525.0	150.0	260.0	0.0	410.0	85.0	30.0

ADB = Asian Development Bank; ADF = Asian Development Fund; AF = additional financing; ANR = agriculture, natural resources, and rural development; COL = concessional ordinary capital resources lending; EDU = education; EGM = effective gender mainstreaming; ENE = energy; ESG = environmentally sustainable growth; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; IEG = inclusive economic growth; KNS = knowledge solutions; MFF = multitranches financing facility; NRM = Nepal Resident Mission; OCR = ordinary capital resources; PAR = partnerships; PBL = policy-based lending; PDA = project design advance; PSD = private sector development; PSM = public sector management; RCI = regional cooperation and integration; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources & Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector & Trade Division; SASEC = South Asia Subregional Economic Cooperation; SATC = South Asia Transport and Communications Division; SAUW = South Asia Urban Development and Water Division; SGE = some gender elements; TA = technical assistance; TIA = Tribhuvan International Airport; TI-G = targeted intervention—geographic dimensions of inclusive growth; TRA = transport; TRTA = transaction technical assistance; WUS = water supply and other urban infrastructure and services.

Note: Per 10 March 2017 memo titled “Transition Arrangements in 2017 for the introduction of Commitments,” the project/program pipeline is prepared based on the expected year of signing.

^a The total cost and total financing do not tally because of PDA estimated at \$5 million, which will be refinanced by the ensuing loan scheduled for 2020.

^b Includes \$20 million from COL and a \$10 million ADF grant from disaster risk reduction allocations.

^c Includes \$60 million from regional set-aside. Total MFF amount is \$500 million.

^d The ensuing COL for Strengthening Higher Engineering Education for 2020 will refinance the PDA.

^e Organization of the Petroleum Exporting Countries (OPEC) Fund for International Development is identified as a possible cofinancier.

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

^g Includes \$60 million from regional set-aside.

^h Includes \$40 million from regional set-aside. Total MFF amount is \$240 million.

ⁱ International Fund for Agricultural Development is identified as a possible cofinancier.

^j Includes \$30 million from regional set-aside.

^k Includes \$50 million from regional set-aside. Total MFF amount is \$500 million.

^l Total MFF amount is \$200 million.

Source: ADB.

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

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2018								
Institutional Strengthening of the Nepal Rural Road Sector	ANR	SAER	TRTA	TASF	800.0			800.0
Implementation Support for Rural Connectivity Improvement Project (attached)	ANR	SAER	TRTA	TASF	1,000.0			1,000.0
Preparing Skills Development Project	EDU	SAHS	TRTA	TASF	500.0			500.0
Energy Sector Policy and Institutional Strengthening	ENE	SAEN	TRTA	TASF	500.0	Trust Fund	1,000.0	1,500.0
Support for Economic Policy and Planning Capacity Strengthening for Sustainable Road Connectivity (attached)	PSM	NRM	KSTA	TASF	500.0			500.0
Preparing TIA Capacity Enhancement Program MFF	TRA	SATC	TRTA	TASF	500.0			500.0
Preparing TIA Capacity Enhancement Program MFF	TRA	SATC	TRTA	TASF	800.0	Trust Fund	400.0	1,200.0
Second Kathmandu Valley Water Supply Improvement (Supplementary)	WUS	SAUW	TRTA	TASF	500.0			500.0
Institutional and Management Strengthening for Water Supply and Sanitation in Kathmandu Valley	WUS	SAUW	TRTA			Trust Fund	2,000.0	2,000.0
Total					5,100.0		3,400.0	8,500.0
2019								
Preparing Priority River Basin Flood Risk Management Project	ANR	SAER	TRTA	TASF	225.0			225.0
Preparing Mechanized Irrigation Innovation Project	ANR	SAER	TRTA	TASF	225.0			225.0
Preparing Supporting School Sector Development Plan II	EDU	SAHS	TRTA	TASF	600.0			600.0
Second Support for Education and Skills Development	EDU	SAHS	TRTA	TASF	500.0			500.0
Economic Corridor Development	WUS	SAUW	TRTA	TASF	900.0	Trust Fund	500.0	1,400.0
Supporting Implementation of TIA Capacity Enhancement (attached)	TRA	SATC	TRTA	TASF	500.0			500.0
Portfolio Management and Capacity Development for Enhanced Portfolio Performance	MUL	NRM	TRTA	TASF	500.0			500.0
Total					3,450.0		500.0	3,950.0

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2020								
Supporting Implementation of Targeted Value Chain Development Project (attached)	ANR	SAER	TRTA	TASF	500.0			500.0
Supporting Higher Engineering Education Project (attached)	EDU	SAHS	TRTA			Trust Fund	1,000.0	1,000.0
Dudh Koshi Hydropower Project (attached)	ENE	SAEN	TRTA	TASF	500.0			500.0
Energy Sector Policy and Institutional Strengthening (Supplementary)	ENE	SAEN	TRTA	TASF	500.0			500.0
SASEC Customs Reform and Modernization for Trade Facilitation Program (Supplementary)	IND	SARC	TRTA	TASF	500.0			500.0
Second Kathmandu Valley Water Supply Improvement Project (attached)	WUS	SAUW	TRTA	TASF	800.0			800.0
Total					2,800.0		1,000.0	3,800.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; IND = industry and trade; KSTA = knowledge and support technical assistance; MFF = multitranches financing facility; MUL = multisector; NRM = Nepal Resident Mission; PSM = public sector management; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources & Agriculture Division; SAHS = South Asia Human and Social Development Division; SARC = South Asia Regional Cooperation and Operations Coordination 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; TIA = Tribhuvan International Airport; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Note: Per 10 March 2017 memo titled "Transition Arrangements in 2017 for the introduction of Commitments," the nonlending pipeline is prepared based on the expected year of signing.

Source: ADB.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A3.1: Lending Products, 2017

Project/Program Name ^a	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			
Firm												
Power Transmission and Distribution Enhancement Project	ENE	GI	IEG, ESG, PSD, GCD	SAEN	2016	189.0	0.0	150.0	0.0	150.0	39.0	0.0
SASEC Customs Reform and Modernization for Trade Facilitation Program (PBL) ^b	IND	GI	IEG, RCI	SARC	2017	21.0	0.0	21.0	0.0	21.0	0.0	0.0
Regional Urban Development Project ^c	WUS	TI-G	ESG, GCD	SAUW	2014	214.0	0.0	150.0	0.0	150.0	64.0	0.0
Total						424.0	0.0	321.0	0.0	321.0	103.0	0.0
Standby												
Rural Connectivity Improvement Project	ANR	TI-G	IEG, GCD, GEM	SAER	2015	135.7	0.0	100.0	0.0	0.0	35.7	0.0
Total						135.7	0.0	100.0	0.0	100.0	35.7	0.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; ENE = energy; ESG = environmentally sustainable growth; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; IEG = inclusive economic growth; IND = industry and trade; OCR = ordinary capital resources; PBL = policy-based lending; PDA = project design advance; PSD = private sector development; RCI = regional cooperation and integration ; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources & Agriculture Division; SARC = South Asia Regional Cooperation and Operations Coordination Division; SASEC = South Asia Subregional Economic Cooperation; SAUW = South Asia Urban Development and Water Division; TI-G = targeted intervention—geographic dimensions of inclusive growth; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Note: Per 10 March 2017 memo titled "Transition Arrangements in 2017 for the introduction of Commitments," the project/program pipeline is prepared based on the expected year of signing.

^a Given the provisional nature of the indicative lending program, the composition of the lending instruments actually delivered may change. Investment lending accounted for 84% of sovereign lending commitments in the 3-year period of 2014–2016, while RBL was 16%.

^b Includes \$14 million from regional set-aside.

^c Includes \$53 million from regional set-aside.

Source: ADB.

Table A3.2: Nonlending Products and Services, 2017

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	Total (\$'000)
Support for Value Chain Development under the Nepal Agriculture Development Strategy	ANR	SAER	TRTA	TASF	225.0			225.0
Preparing Bagmati River Basin Improvement Project (Additional Financing)	ANR	SAER	TRTA	TASF	225.0			225.0
Support for Education and Skills Development (Supplementary)	EDU	SAHS	TRTA	TASF	500.0			500.0
Support for Project Implementation of Nepal Earthquake Rehabilitation and Reconstruction (Supplementary)	EDU	NRM	TRTA	TASF	300.0			300.0
Supporting Policies and Implementation in the School Sector (Supplementary)	EDU	SAHS	TRTA			Norway	350.0	350.0
Strengthening the Capacity of Nepal's Energy Sector to Deliver Gender Equality and Social Inclusion Results (attached)	ENE	SAEN	TRTA			JFPR	2,000.0	2,000.0
SASEC Customs Reform and Modernization for Trade Facilitation	IND	SAPF	TRTA			JFPR	1,000.0	1,000.0
Enhancing Portfolio Performance (Supplementary)	MUL	NRM	TRTA	TASF	500.0			500.0
Support for Regional Urban Development (attached)	WUS	SAUW	TRTA	TASF	1,000.0			1,000.0
Total					2,750.0		3,350.0	6,100.0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; IND = industry and trade; JFPR = Japan Fund for Poverty Reduction; MUL = multisector; NRM = Nepal Resident Mission; SAEN = South Asia Energy Division; SAER = South Asia Environment, Natural Resources & Agriculture Division; SAHS = South Asia Human and Social Development Division; SAPF = South Asia Public Management, Financial Sector & Trade Division; SASEC = South Asia Subregional Economic Cooperation; SAUW = South Asia Urban Development and Water Division; TASF = Technical Assistance Special Fund; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

Note: Per 10 March 2017 memo titled "Transition Arrangements in 2017 for the introduction of Commitments," the nonlending pipeline is prepared based on the expected year of signing.

Source: ADB.

INDICATIVE KNOWLEDGE PUBLICATIONS AND EVENTS

Table A4.1: Knowledge Publications and Events for 2018

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
2016 Purchasing Power Parity Update for Selected Economies in Asia and the Pacific	Capacity development, governance and PSM	Publication and documentation	ERCDC	9238
2014/2015 Social Protection Indicator Update (Regional Report for Asia)	Social protection	Publication and documentation	SDCC	Admin Core Budget (Staff Consultant)
Analysis of Government's Annual Budget Statement	Economics	Publication and documentation	SARD	Admin Core Budget (Staff)
Analysis of the Monetary Policy	Economics	Publication and documentation	SARD	Admin Core Budget (Staff)
Asia Clean Energy Forum 2018	Energy, environment, finance, RCI	Event organization	SDCC, Energy Sector Group	8953
Asia Solar Energy Forum 12 th Meeting	Capacity development, climate change, energy, environment, finance	Event organization	SDCC, Energy Sector Group	8953
Asian Development Bank and Nepal: Fact Sheet 2017	Governance	Publication and documentation	SARD, DER	Admin Core Budget (Staff)
Asian Development Outlook 2018, Update, and Supplement	Capacity development, economics, governance and PSM	Publication and documentation	ERCDC	Admin Core Budget (Staff)
Asian Economic Integration Report 2018	Industry and trade, governance and PSM, RCI, finance, capacity development	Publication and documentation	ERCDC	Admin Core Budget (Staff)
Changes in Society Through Community Development Program	Urban development	Publication and documentation	SARD	Loan 2650
Effective Management of Public Toilets in Biratnagar	Urban development	Publication and documentation	SARD	Loan 2650
Evidence Based Type Designs of Remote Schools Using Traditional Construction Techniques	Education, DRM	Publication and documentation	SARD	8910
Evolution of the Economies of Selected DMCs: A Study Based on Input–Output Economic Analysis Framework—Part 2	Capacity development, economics, governance and PSM	Publication and documentation	ERCDC	8838
Gender-Based Research on Trends in Gender Mainstreaming in ADB Priority Sectors	Gender	Publication and documentation	SDCC, Gender Equity Thematic Group, SARD	Admin Core Budget (Staff)
Government 2018 Monetary Policy Analysis	Economics	Publication and documentation	SARD	Admin Core Budget (Staff)

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
In-Country Workshops, Lateral Learning Workshops/Peer-to-Peer Exchanges on GAP Implementation, Monitoring, and Reporting on Gender Equality Results	Gender	Event organization	SDCC, Gender Equity Thematic Group, SARD	8311, Admin Core Budget (Staff)
Key Indicators for Asia and the Pacific 2018	Capacity development, economics, governance and PSM	Publication and documentation	ERCDC	Admin Core Budget (Staff)
Launch and Dissemination of the Economic Integration Report 2018	Capacity development, economics, finance, industry and trade, RCI	Event organization	ERCDC	Admin Core Budget (Staff)
Microcredit for Earthquake Affected Households	Capacity development	Publication and documentation	SARD	Admin Core Budget (Staff)
Macroeconomic Update with Issue Focus (March and September Issues)	Economics	Publication and documentation	SARD	Admin Core Budget (Staff/Consultant)
Managing Extremes: Water-Related Disasters	Climate change, DRM, water, urban development	Publication and documentation	SDCC	Admin Core Budget (Staff)
Multicriteria Based Index for Infrastructure Investment Decisions	Knowledge management	Publication and documentation	SARD	Admin Core Budget (Staff)
NRM Newsletter (two editions)	ADB administration and governance	Publication and documentation	SARD	Admin Core Budget (Staff)
South-South Learning	Knowledge management	Publication and documentation	SARD	7997
Subnational Public Private Partnerships of Selected DMCs	Economics	Publication and documentation	ERCDC	7507
Sub-Regional Workshop/Conferences on Gender and Transport	Gender	Event organization	SDCC, Gender Equity Thematic Group, SARD	8311
The Economic Effects of Participating in Global Value Chains: Country and Sector Level Analysis	Capacity development, economics, governance and PSM	Publication and documentation	ERCDC	8779
Toolkits on Disaster Risk Financing	Finance	Publication and documentation	SDCC	9007, Admin Core Budget (Staff)
Urban Health in South Asia	Health, urban development	Publication and documentation	Health Sector Group, SDCC	SG/TG Budget, Admin Core Budget (Staff)
Workshop on Disaster Risk Financing	Finance	Event organization	SDCC	9007, Admin Core Budget (Staff)
Total number of publications = 24				
Total number of events = 6				

ADB = Asian Development Bank; Admin = Administration; DER = Department of External Relations; DMC = developing member countries; DRM = disaster risk management; ERCDC = Economic Research and Regional Cooperation Department; GAP = gender action plan; NRM = Nepal Resident Mission; PSM = public sector management; RCI = regional cooperation and integration; SARD = South Asia Regional Development; SDCC = Sustainable Development and Climate Change Department; SG = sector group; TG = technical group.

Sources: ADB (K-nexus as of 7 July 2017).

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
2017 V20 Asia-Pacific Regional Consultation and Disaster Risk Financing Workshop	Capacity development	Event organization	SDCC, CCDRM Thematic Group	Climate Change Fund
A Water Resources Study of the Dudh Koshi River System in Nepal	Agriculture and natural resources	Publication and documentation	SARD	6498
ADB Annual Report 2016	ADB administration and governance	Publication and documentation	DER	Admin Core Budget (Staff)
ADB Economics Working Paper Series No. 507: Impacts of Sea Level Rise on Economic Growth in Developing Asia	Climate change	Publication and documentation	ERCD	Admin Core Budget (Staff)
ADB-OMFIF Joint Conference on “Developing Financial Market to Support Financial Stability”	Finance, RCI	Flagship event	SDCC	9024
ADB Working Paper Series No. 752: The Middle-Income Trap and Manufacturing Transformation of the People’s Republic of China (PRC): Asian Experience and the PRC’s Industrial Policy Orientation	Economics, Industry and trade	Publication and documentation	ADB	Admin Core Budget (Staff)
ADB Working Paper Series No. 736: Growth Slowdowns, Middle-Income Trap, and Demographic Profile in South Asia	Economics	Publication and documentation	ADB	Admin Core Budget (Staff)
ADB Working Paper Series No. 711: Are Least Developed Countries Sidelined in Advanced Manufacturing Production Networks?	Industry and trade	Publication and documentation	ADB	Admin Core Budget (Staff)
ADB Working Paper Series No. 692: External Debt Sustainability and Vulnerabilities: Evidence from a Panel of 24 Asian Countries and Prospective Analysis	Industry and trade	Publication and documentation	ADB	Admin Core Budget (Staff)
Analysis of Government’s Annual Budget Statement	Economics	Publication and documentation	SARD	Admin Core Budget (Staff)
Analysis of Monetary Policy	Economics	Publication and documentation	SARD	Admin Core Budget (Staff)
APEC-FRTI Advisory Group Meeting, 2017	Finance, RCI	Flagship event	ERCD	8947
Asia Clean Energy Forum 2017		Flagship event	SDCC, Energy Sector Group	8953
Asian Development Bank and Nepal: Fact Sheet 2016	Governance	Publication and documentation	SARD, DER	Admin Core Budget (Staff)
Asian Development Outlook 2017, Update, and Supplement	Capacity development, economics, governance and PSM	Publication and documentation	ERCD	Admin Core Budget (Staff)
Assessment of Power Sector Reforms in South Asia	Energy	Publication and documentation	SARD	7997

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Banking on the Future of Asia and the Pacific: 50 Years of the Asian Development Bank	ADB administration and governance	Publication and documentation	SPD, DER	Admin Core Budget (Staff/Consultant)
Best Practices in Agribusiness in the Highlands of Nepal	Agriculture and natural resources	Publication and documentation	SARD	Grant 0248
Construction Monitoring and Supervision Guidelines for School Construction	DRM, education	Publication and documentation	SARD	8910
Cross-Border Power Generation, Transmission, and Trading—A Way Forward for South Asia	Energy	Publication and documentation	SARD	7997
Deployment of Hybrid Renewable Energy Systems in Minigrids	Energy	Publication and documentation	SARD	7485
Development Effectiveness Brief	Knowledge management	Publication and documentation	SARD	Admin Core Budget (Staff/Consultant)
Emergency Earthquake Assistance Project - Monitoring Information System (P-MIS)	DRM, education	Publication and documentation	SARD	8910
Evolution of the Economies of Selected DMCs: A Study Based on Input-Output Economic Analysis Framework—Part 1	Capacity development, economics, governance and PSM	Publication and documentation	ERCD	8838
GESI Assessment of the Energy Sector: Enhancing Social Sustainability of Energy Development in Nepal	Gender	Publication and documentation	SARD	8311
GESI in ADB Operations in Nepal 2011–2015	Gender	Publication and documentation	SARD	8311
Governance and Urban Health	Health, urban development	Publication and documentation	SDCC, SARD, Health Sector Group	SG/TG Budget, Admin Core Budget (Staff)
Health Talks: Bringing Universal Health Coverage Closer to Reality—The Joint Learning Network (JLN)	Health	Event organization	SDCC, Health Sector Group	SG/TG budget
Improving Lives of Rural Communities Through Developing Small Hybrid Renewable Energy Systems	Energy	Publication and documentation	SARD	7485
In-Country Workshops, Lateral Learning Workshops/Peer-to-Peer Exchanges on GAP Implementation, Monitoring, and Reporting on Gender Equality Results	Gender	Event organization	SARD, SDCC, Gender Equity Thematic Group	8311
Information and Communications Technology for Social Protection (Working paper series)	Social protection, ICT	Publication and documentation	SDCC, Social Development Thematic Group	Admin Core Budget (Staff)
Integrating South and East Asia: Economics of Regional Cooperation and Development	Economics, RCI	Publication and documentation	ERCD	7791, Admin Core Budget (Staff)
Land Pooling in Nepal	Urban development	Publication and documentation	SARD	Admin Core Budget (Staff)

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Launch and Dissemination of the Asian Economic Integration Report 2017: Financial Stability and Financial Resilience	Economics, finance, industry and trade, RCI	Flagship event	ERCD	9121, Admin Core Budget (Staff)
Local Governance under Federal Structure in Nepal	Governance and PSM	Publication and documentation	SARD	Admin Core Budget (Consultant)
Macroeconomic Update with Issue Focus (March and September Issues)	Economics	Publication and documentation	SARD	Admin Core Budget (Staff/Consultant)
Moving Towards Strategic Purchasing for Health in Asia: 2nd Bi-Regional Health Financing Policy Workshop	Health	Event organization	SDCC, Health Sector Group	8983
Nepal Energy Sector Assessment, Strategy, and Roadmap	Energy	Publication and documentation	SARD	9266
Nepal: Social Protection Indicator	Social protection	Publication and documentation	SDCC, Social Development Thematic Group	8677, Admin Core Budget (Staff)
Next Steps to South Asian Economic Union	RCI	Publication and documentation	SARD	6512
NRM Newsletter (two editions)	ADB administration and governance	Publication and documentation	SARD	Admin Core Budget (Staff)
Options, Specifications, and Implementation Methodology for Biochar Development—Lessons from Nepal	Agriculture and natural resources, climate change	Publication and documentation	SARD	7984
Overcoming Challenges of Private Sector Participation in Hydropower Development in Nepal	Energy	Publication and documentation	SARD	Admin Core Budget (Staff)
Post-COP 21: A Bright New Future for Clean Energy Development in Bhutan and Nepal	Energy	Publication and documentation	SARD	Admin Core Budget (Staff)
Regional Hub Training on Economic Analysis for the DMCs (South Asia)	Economics	Event organization	ERCD, SARD	9249
SASEC 15-Year Anniversary Coffee Table Book	RCI	Publication and documentation	SARD	7997
South Asia Subregional Economic Cooperation: Powering Asia in the 21st Century	RCI	Publication and documentation	SARD	7997
Sub-Regional Workshop/Conferences on Gender and Transport	Gender	Event organization	SARD, SDCC, Gender Equity Thematic Group	8311

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Transport and Trade Facilitation Monitoring Mechanism Baseline Study in Nepal	Industry and trade	Publication and documentation	SARD	7997
Updating and Enhancement of the BIMSTEC Transport and Logistics Study Final Report	Transport	Publication and documentation	SARD	8009
Total number of publications = 40				
Total number of events = 10				

ADB = Asian Development Bank; ADBI = Asian Development Bank Institute; Admin = administration; APEC-FRTI = Asia Pacific Economic Cooperation—Financial Regulators Training Initiative; BIMSTEC= Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation; CCDRM = climate change and disaster risk management; COP = community of practice; DER = Department of External Relations; DMC = developing member country; DRM = disaster risk management; ERCD = Economic Research and Regional Cooperation Department; ICT = information and communication technology; NRM = Nepal Resident Mission; OMFIF = Official Monetary and Financial Institutions Forum; GAP = gender action plan; GESI = gender equality and social inclusion; PSM = public sector management; RCI = regional cooperation and integration; SARD = South Asia Regional Department; SASEC = South Asia Subregional Economic Cooperation; SDCC = Sustainable Development and Climate Change Department; SG = sector group; SPD = Strategy, Policy, and Review Department; TG = thematic group.

Source: ADB (K-nexus as of 7 July 2017).

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

Item	Nature	Project Number	Sector or Theme	Division
Use of project design advance for preparing the detailed design of the Strengthening Higher Engineering Education Project	PLT	—	EDU	SAHS
Sensory control automated data acquisition will be used in the water treatment plants for process control and data management.	TCH	—	WUS	SAUW
Use of smart grids and advanced conductors (high-temperature, low-sag) are being introduced under the Power Transmission and Distribution Efficiency Enhancement Project.	TCH	—	ENE	SAEN

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

EDU = education; ENE = energy; PLT = pilot initiative; SAEN = South Asia Energy Division; SAHS = South Asia Human and Social Development Division; SAUW = South Asia Urban Development and Water Division; TCH = advanced technology; WUS = water and other urban infrastructure and services.
Source: ADB.