

# World Bank (IBRD) Green Bonds FY22 Impact Report | Project Tables

These project tables should be read in conjunction with the  
FY22 World Bank (IBRD) Sustainable Development Bonds and Green Bonds Impact Report at  
<https://treasury.worldbank.org/en/about/unit/treasury/impact/impact-report>

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## Renewable Energy & Energy Efficiency

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Country	A/M	Project Life	Target Results -				Other Results-	Committed US\$ millions -	IBRD share -	Disbursed US\$ millions -
						Annual Energy Savings -MWh	Annual Energy Produced MWh	Renewable Capacity Added MW	Annual GHG Emissions Avoided Tons of CO <sub>2</sub> Eq. -				
1	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P170236">https://projects.worldbank.org/en/projects-operations/project-detail/P170236</a>	Renewable Energy and Improved Utility Performance Project (P170236   FY22); increase renewable energy performance and improve the performance of the electricity utility in Cabo Verde by leveraging private finance.	Cabo Verde	M	25	-	6,781	3.9	9,000	<ul style="list-style-type: none"> <li>• Power system losses decreased from 26.1% to 18%.</li> <li>• 215 jobs created.</li> </ul>	3.5	0.067961165	0.00876
2	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P155007">https://projects.worldbank.org/en/projects-operations/project-detail/P155007</a>	Grid-Connected Rooftop Solar Program (and Additional Financing) (P155007   FY15, FY22); increase solar rooftop capacity to the power grid and incentivize the market for rooftop solar power by way of low cost financing.	India	M	25	-	647,200	400	520,000	<ul style="list-style-type: none"> <li>• The 250 MW of capacity of rooftop solar photovoltaics expected to be grid-connected by 5 years with at least another 150 MW to be connected in subsequent years.</li> <li>• 13 million tons CO<sub>2</sub> eq. in cumulative savings over the project's 25-year life.</li> <li>• Market development for rooftop photovoltaic systems in different business models.</li> </ul>	650.0	61%	500.0
3	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P154283">https://projects.worldbank.org/en/projects-operations/project-detail/P154283</a>	Shared Infrastructure for Solar Parks Project (P154283   FY17); increase solar generation capacity through the establishment of large-scale solar parks in the country.	India	M	25	-	-	1,750	951,852	<ul style="list-style-type: none"> <li>• Increase in access roads, water supply and drainage, telecommunications, pooling station inside the solar parks.</li> </ul>	75.0	75%	15.6
4	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P170590">https://projects.worldbank.org/en/projects-operations/project-detail/P170590</a>	West Bengal Electricity Distribution Grid Modernization Project (P170590   FY22); improve the operational efficiency and reliability of electricity supply in selected areas of West Bengal.	India	M	20	-	N/A	N/A	2,186,557	<ul style="list-style-type: none"> <li>• 200,000 consumers placed on advanced metering infrastructure for efficient and reduced energy consumption.</li> <li>• 65,300 kVA of increased distribution transformation capacity.</li> <li>• 12,100 km of distribution lines retrofitted to reduce energy use.</li> <li>• 1,700 km of distribution lines moved under the ground to reduce exposure to storm and tree damage.</li> </ul>	95.9	35%	4.4
5	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P149872">https://projects.worldbank.org/en/projects-operations/project-detail/P149872</a>	Energy Efficiency in Public Facilities Project (and Additional Financing) (P149872   FY16, FY18); promote energy efficiency in selected public sectors and contribute to strengthening the enabling environment.	Mexico	M	8	127,590	5,800	6	7,241	<ul style="list-style-type: none"> <li>• 1,020,714 MWh projected lifetime savings.</li> <li>• 28 sub-projects designed.</li> </ul>	50.0	73%	23.8
6	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P172668">https://projects.worldbank.org/en/projects-operations/project-detail/P172668</a>	Second District Heating Efficiency Improvement Project (P172668   FY20); increase the efficiency of the District Heating system in Chisinau.	Moldova	M	15	-	-	-	41,025	<ul style="list-style-type: none"> <li>• 12,376,000 GJ of projected lifetime fuel savings.</li> <li>• 55 MW of new generation capacity constructed.</li> <li>• 17,500 people that gained access to more energy-efficient heat generating facilities.</li> <li>• 18 MW of additional generation capacity of electricity.</li> <li>• 19 buildings retrofitted annually.</li> <li>• US\$ 1,200,000 captured energy cost savings annually.</li> <li>• 220,000 potential patients and 7,000 staff benefiting.</li> </ul>	92.8	100%	0.3
7	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P165509">https://projects.worldbank.org/en/projects-operations/project-detail/P165509</a>	Montenegro Second Energy Efficiency Project (P165509   FY18); improve energy efficiency in health sector buildings, and develop and demonstrate a sustainable financing model.	Montenegro	M	15	3,981	-	N/A	37,333	<ul style="list-style-type: none"> <li>• 220,000 potential patients and 7,000 staff benefiting.</li> <li>• 412,000 people benefit from electricity and associated economic opportunities of which 50% are expected to be female.</li> </ul>	6.2	82%	4.7
8	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P143689">https://projects.worldbank.org/en/projects-operations/project-detail/P143689</a>	Clean and Efficient Energy Project (P143689   FY15); develop the first utility sized photovoltaic plant to more reliably supply solar power to remote regions.	Morocco	M	25	N/A	-	75	73,512	<ul style="list-style-type: none"> <li>• 1,100,000 direct project beneficiaries, 50% of which are expected to be female.</li> </ul>	125.0	79%	75.9
9	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P131256">https://projects.worldbank.org/en/projects-operations/project-detail/P131256</a>	Neor Solar Power (and Additional Financing) (P131256   FY15, FY18); increase innovative solar power generation in Morocco.	Morocco	M	30	N/A	1,638,000	410	522,000	<ul style="list-style-type: none"> <li>• 52 km of transmission lines constructed or rehabilitated.</li> </ul>	386.8	18%	231.4
10	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P144534">https://projects.worldbank.org/en/projects-operations/project-detail/P144534</a>	Renewable Energy Integration (and Additional Financing) (P144534   FY14, FY20); assist in meeting increased power demand by strengthening the transmission system and facilitating large-scale renewable energy generation.	Turkey	M	20	N/A	1,734,000	-	690,000	<ul style="list-style-type: none"> <li>• 22,680,000,000 MJ of projected energy savings.</li> <li>• 620 buildings renovated.</li> <li>• US\$ 18,000,000 of energy costs savings annually.</li> <li>• 59,700 beneficiaries (including users and employees) in renovated buildings.</li> </ul>	527.4	78%	266.3
11	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P162762">https://projects.worldbank.org/en/projects-operations/project-detail/P162762</a>	Turkey Energy Efficiency in Public Buildings (P162762   FY20); reduce energy use in central government buildings and inform the development of sustainable financing mechanisms to support a scaled-up, national program for energy efficiency in public buildings.	Turkey	M	20	315,000	-	14	225,000	<ul style="list-style-type: none"> <li>• 26,500 building occupants benefiting from disaster resilient Central Government Buildings.</li> <li>• 3,608,597,923 MJ of projected lifetime energy savings.</li> <li>• 6,470,000 beneficiaries in areas serviced by disaster and climate resilient and energy efficient public buildings</li> <li>• 133 buildings structurally strengthened and renovated to be disaster and climate resilient and energy efficient.</li> <li>• 721,400 consumers served by the participating companies.</li> </ul>	141.3	75%	19.5
12	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P176884">https://projects.worldbank.org/en/projects-operations/project-detail/P176884</a>	Seismic Resilience and Energy Efficiency in Public Buildings Project (P176884   FY21); improve the disaster resilience and reduce energy use in selected Central Government Buildings.	Turkey	Both	20	50,119	-	5.6	19,043	<ul style="list-style-type: none"> <li>• 70 beneficiary industrial enterprises.</li> <li>• 50 industrial enterprises which adopted energy management system.</li> </ul>	141.5	100%	0.1
13	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132741">https://projects.worldbank.org/en/projects-operations/project-detail/P132741</a>	District Heating Energy Efficiency (P132741   FY14); improve energy efficiency and quality of service of District Heating companies.	Ukraine	M	20	524,000	N/A	N/A	261,800	<ul style="list-style-type: none"> <li>• 170,220 project beneficiaries.</li> <li>Updated for actual results at project completion.</li> </ul>	151.6	87%	128.8
14	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P165054">https://projects.worldbank.org/en/projects-operations/project-detail/P165054</a>	Energy Efficiency Facility for Industrial Enterprises, Phase 3 (P165054   FY18); improve energy efficiency in Industrial Enterprises (IEs) by designing and establishing a financing mechanism for energy saving investments.	Uzbekistan	M	25	122,600	-	N/A	158,638	<ul style="list-style-type: none"> <li>• 3,600 tons of particulate emissions (local air pollutants) reduced by energy efficiency and renewable energy subprojects financed.</li> <li>Project closed. Achieved results will be provided when the ICR is released.</li> </ul>	200.0	62%	84.5
15	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P146194">https://projects.worldbank.org/en/projects-operations/project-detail/P146194</a>	Biomass District Heating (P146194   FY14); increase energy efficiency in district heating systems and replace natural gas with wood biomass as a renewable energy source.	Belarus	M	20	105,571	675,023 MWh of heat and electricity generated from renewable biomass.	179	154,076 metric tons	<ul style="list-style-type: none"> <li>• 5 sectors in which renewable energy service contracts have been signed. The installation capacity by sector is as follows: industry (40 MW), schools (30 MW), commerce and infrastructure (18.4 MW), logistics (10 MW), and agriculture (3.6 MW).</li> <li>• 560,000 people provided with access to electricity generated in education establishment.</li> <li>Updated for actual results at project completion.</li> </ul>	90.0	100%	87.8
16	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P154669">https://projects.worldbank.org/en/projects-operations/project-detail/P154669</a>	Financing for Air Pollution Control (P154669   FY16); reduce air pollutants and carbon emissions through lending for energy efficiency and clean energy, with a focus on the Jing-Jin-Ji and neighboring regions.	China	M	20	1,628,200	N/A	N/A	492,200	<ul style="list-style-type: none"> <li>• 470,000 rural households benefit from cleaner biogas-based cooking and heating systems.</li> <li>• 344,346 clients who adopted an improved agricultural technology promoted by the project, 280,052 of which are female.</li> <li>• 155,560 new water connections providing households clean water for improved hygiene and sanitary conditions.</li> <li>Updated for actual results at project completion.</li> </ul>	395.2	100%	374.4
17	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P125022">https://projects.worldbank.org/en/projects-operations/project-detail/P125022</a>	Beijing Rooftop Solar Photovoltaic Scale-Up (Sunshine Schools) Project (P125022   FY13); increase electricity generated from distributed solar photovoltaic systems, and demonstrate the viability of the renewable energy service company model for scaling up the deployment of such systems, in various sectors in Beijing Municipality.	China	M	20	N/A	111,510	102	87,992	<ul style="list-style-type: none"> <li>• 155,560 new water connections providing households clean water for improved hygiene and sanitary conditions.</li> <li>Updated for actual results at project completion.</li> </ul>	83.5	50%	83.5
18	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P096556">https://projects.worldbank.org/en/projects-operations/project-detail/P096556</a>	Eco-Farming Project (P096556   FY09); promote sustainable farming systems and reduce greenhouse gas emissions (from methane and burning coal and firewood) benefiting rural communities with biogas systems.	China	M	20	N/A	-	-	785,000	<ul style="list-style-type: none"> <li>• 4,389 ha of crop land protected from flooding.</li> <li>• 2,670,000 tce annual energy savings (assuming 150 subprojects).</li> <li>Updated for actual results at project completion.</li> </ul>	119.8	27%	119.8
19	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P084874">https://projects.worldbank.org/en/projects-operations/project-detail/P084874</a>	Energy Efficiency Financing (P084874   FY08, FY12); promote energy conservation in China's industrial sector supporting intermediary loans for energy efficiency projects in medium and large-sized manufacturing companies.	China	M	20	8,900,000 <sup>1</sup>	N/A	N/A	6,510,000	<ul style="list-style-type: none"> <li>• 4,389 ha of crop land protected from flooding.</li> <li>• 2,670,000 tce annual energy savings (assuming 150 subprojects).</li> <li>Updated for actual results at project completion.</li> </ul>	300.0	45%	300.0
20	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P127035">https://projects.worldbank.org/en/projects-operations/project-detail/P127035</a>	Green Energy Schemes for Low-carbon City in Shanghai (P127035   FY13); promote greener city development with energy efficiency and renewable energy installations in commercial and government buildings.	China	M	20	635,712	-	-	189,946	<ul style="list-style-type: none"> <li>• 78,083 tce of annual energy savings per annum.</li> <li>• Innovative policies piloted under the Project in relation to green-energy retrofitting of buildings.</li> <li>Updated for actual results at project completion.</li> </ul>	100.0	41%	100.0
21	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P101989">https://projects.worldbank.org/en/projects-operations/project-detail/P101989</a>	Jiangxi Shitang Navigation & Hydropower (P101989   FY09); maximize inland waterway transport capacity as a low-carbon alternative to land transport and generate hydropower.	China	Both	20	N/A	284,000	120	220,000	<ul style="list-style-type: none"> <li>• Shortened travel distance benefiting 150,000 people.</li> <li>Updated for actual results at project completion.</li> </ul>	100.0	31%	100.0

## Renewable Energy & Energy Efficiency

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Country	A/M	Project Life	Annual Energy Savings -MWh	Annual Energy Produced MWh	Renewable Capacity Added MW	Target Results -		Other Results-	Committed US\$ millions -	IBRD share -	Disbursed US\$ millions -
									Annual GHG Emissions Avoided Tons of CO <sub>2</sub> Eq. -					
22	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P099224?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P099224?lang=en&amp;tab=overview</a>	Liaoning Third Medium Cities Infrastructure (P099224   FY08): improve the energy efficiency and environmental performance of heating and gas services.	China	M	20	2,757,200	N/A	N/A	-	-	<ul style="list-style-type: none"> <li>• 8,935 tons of sulphur dioxide avoided per annum.</li> <li>• 11,699 tons of total suspended particles (local pollutant) avoided per annum.</li> <li>• Decrease by 31% of fuel consumption annually (from 199.5 kWh/m<sup>2</sup> to 137.9 kWh/m<sup>2</sup>).</li> <li>• Decrease by 39% of electricity used for District Heating annually (from 4.4 kWh/m<sup>2</sup> to 2.7 kWh/m<sup>2</sup>).</li> <li>• Decrease by 31.25% of make-up water annually (from 115.5 L/m<sup>2</sup> to 79.34 L/m<sup>2</sup>).</li> </ul>	165.0	51%	165.0
23	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P116997?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P116997?lang=en&amp;tab=overview</a>	Shandong Energy Efficiency (P116997   FY11): improve the energy efficiency and environmental performance of the industrial sector. <sup>a</sup>	China	M	15	2,707,580	-	-	-	-	<ul style="list-style-type: none"> <li>• 331,000 tce of energy savings annually.</li> </ul>	110.1	47%	110.1
24	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P120664?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P120664?lang=en&amp;tab=overview</a>	Urumqi District Heating Project (P120664   FY11): promote energy efficiency in district heating by replacing dispersed boilers in urban areas with an integrated district heating network.	China	M	20	1,229,400	N/A	N/A	415,500	-	<ul style="list-style-type: none"> <li>• 1,628 MW of inefficient coal-fired boilers replaced by combined heat and power district heating network.</li> </ul>	99.1	29%	99.1
25	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P101653?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P101653?lang=en&amp;tab=overview</a>	Power System Development Project IV (P101653   FY09): expand transmission infrastructure resulting in decreased CO <sub>2</sub> emissions through efficiency gains and transferring surplus hydro energy to power deficit regions.	India	M	20	8,699,000	N/A	N/A	-	-	<ul style="list-style-type: none"> <li>• Reduced transmission losses equivalent to between 528-993 MW.</li> <li>• 1,400 MW of increased interregional power transmission capacity to National Grid.</li> <li>• Transformation capacity increased by 146,523 MVA.</li> <li>• 106,804 circuit km of transmission lines' increased capacity.</li> </ul>	400.0	16%	400.0
26	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P095114?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P095114?lang=en&amp;tab=overview</a>	Rampur Hydropower Project (P095114   FY08): scale-up access to renewable energy through construction of a run-of-the-river hydroelectric scheme.	India	M	30	N/A	1,957,000	412	1,407,700	-	<ul style="list-style-type: none"> <li>• 78,386 GWh power capacity growth between regions.</li> </ul>	400.0	60%	400.0
27	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P113078?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P113078?lang=en&amp;tab=overview</a>	Indonesia Geothermal Energy (P113078   FY12): increase power generation from renewable geothermal resources.	Indonesia	M	30	N/A	1,208,880 (generation projection July 2019)	150	1,010,125	-	<ul style="list-style-type: none"> <li>• 30,303,750 tons of CO<sub>2</sub> eq. cumulative emission reduction over 30 years.</li> <li>• 10,000 tons of avoided local air pollution (2,753 tons of NOx/4,923 tons of SO<sub>2</sub>, 2,324 tons of TSP) annually.</li> </ul>	129.0	30%	129.0
28	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P112780?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P112780?lang=en&amp;tab=overview</a>	Energy Security and Efficiency Enhancement Project (P112780   FY11): increase energy efficiency and security by promoting greater participation of renewable energy and gas-based generation in the energy mix.	Jamaica	M	N/A	N/A	-	623	-	-	<ul style="list-style-type: none"> <li>• New renewable electricity generated by three wind farms, two solar farms, and one hydro plant.</li> <li>• 600 GWh from renewable resources annually.</li> </ul>	14.5	100%	14.5
29	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P08996?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P08996?lang=en&amp;tab=overview</a>	Integrated Energy Services (P08996   FY08): increase energy access for poor communities using renewable energy (mainly solar and some wind turbines) and to develop a sustainable market for providing energy services in remote rural areas.	Mexico	M	20	N/A	152	2	139,000	-	<ul style="list-style-type: none"> <li>• 2,235 rural households receive electricity from renewable sources annually.</li> <li>• 150 new social/productive activities and microbusiness developed.</li> <li>• Larger long-term national impact with replication throughout rural areas.</li> </ul>	12.0	18%	12.0
30	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P106261?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P106261?lang=en&amp;tab=overview</a>	Sustainable Rural Development (and Additional Financing) (P106261   FY09, FY13): increase the use of energy efficient, waste management and renewable energy technologies in agribusiness.	Mexico	M	10	45	26,073	-	708,235	-	<ul style="list-style-type: none"> <li>• Cumulative over 8.5 years:</li> <li>• 143,450 MWh saved from energy efficiency investments.</li> <li>• 221,624 MWh produced by renewable (biomass) energy.</li> <li>• 6.02 million tons of CO<sub>2</sub> eq. emission avoided over the course of the project.</li> <li>• 1,842 agribusinesses adopted 2,286 environmentally sustainable technologies.</li> </ul>	79.1	48%	79.1
31	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132443?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P132443?lang=en&amp;tab=overview</a>	District Heating Efficiency Improvement (P132443   FY15): improve quality and reliability of heating services by improving the operational efficiency and viability of a new district heating company.	Moldova	M	30	195,697	N/A	N/A	55,850	-	<ul style="list-style-type: none"> <li>• 54% reduction in heating system breakdowns by year 5.</li> <li>• 95,063 people with access to more energy efficient cooking and heating facilities.</li> <li>• 591,435,719 MJ annual fuel savings.</li> </ul>	40.5	100%	37.1
32	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P107992?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P107992?lang=en&amp;tab=overview</a>	Energy Efficiency (and Additional Financing) (P107992   FY09, FY14): improve energy efficiency and environmental quality in 27 buildings used for health and education services.	Montenegro	M	15	7,925	N/A	N/A	2,766	-	<ul style="list-style-type: none"> <li>• Cumulative over project life and targeting 27 buildings:</li> <li>• 118,880 MWh in lifetime energy savings.</li> <li>• 41,504 metric tons of CO<sub>2</sub> eq. lifetime emissions reduced.</li> </ul>	11.5	100%	11.5
33	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P117864?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P117864?lang=en&amp;tab=overview</a>	Second Rural Electrification (P117864   FY11): provide electricity to remote communities by extending the conventional electricity grid and financing solar photovoltaic systems.	Peru	M	20	N/A	-	-	-	-	<ul style="list-style-type: none"> <li>• 42,500 rural households electrified, of which 20,000 served by solar photovoltaic systems from regulated electricity distribution companies.</li> <li>• 169,000 people benefited.</li> </ul>	43.8	60%	43.8
34	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P104266?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P104266?lang=en&amp;tab=overview</a>	Energy Efficiency (P104266   FY09): support industrial energy efficiency and co-generation investments by providing financing through intermediaries.	Tunisia	M	20	580,000	N/A	N/A	205,840	-	<ul style="list-style-type: none"> <li>• 169,000 people benefited.</li> </ul>	29.1	91%	29.1
35	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P112578?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P112578?lang=en&amp;tab=overview</a>	Private Sector Renewable Energy and Energy Efficiency Project (P112578   FY09, FY12): enhance renewable energy access (small hydroelectric and geothermal) and energy efficiency in industries (iron and steel, cement, ceramics, chemicals and textiles).	Turkey	M	20	3,023,800	3,728,000	933	3,214,000	-	<ul style="list-style-type: none"> <li>• Increase country's renewable energy capacity to 31%.</li> </ul>	878.2	87%	878.2
36	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P121478?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P121478?lang=en&amp;tab=overview</a>	SME Energy Efficiency (P121478   FY13): improve energy efficiency in small and medium enterprises in energy-intensive industries by scaling-up commercial bank lending for energy efficiency investments.	Turkey	M	20	536,537	N/A	N/A	397,796	-	<ul style="list-style-type: none"> <li>• Updated for actual results at project completion.</li> </ul>	201.0	67%	201.0
37	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P06556?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P06556?lang=en&amp;tab=overview</a>	Energy Efficiency (P06556   FY11): improve energy efficiency in order to meet energy intensity reduction targets, decrease dependence on imported gas, and decrease the cost of energy supply.	Ukraine	M	15	7,721,157	N/A	N/A	856,097	-	<ul style="list-style-type: none"> <li>• Create jobs directly and indirectly through increased cost competitiveness as a result of lower energy intensity.</li> </ul>	200.0	100%	200.0
38	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P113768?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P113768?lang=en&amp;tab=overview</a>	Energy Efficiency Financing II Project (P113768   FY10): promote energy conservation in China's industrial sector through intermediary loans to energy efficiency projects.  <i>This project was fully repaid and has been removed from the current Green Bond portfolio.</i>	China	M	20	1,908	N/A	N/A	607,000	-	<ul style="list-style-type: none"> <li>• Updated for actual results at project completion.</li> </ul>	-	-	-
39	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P106424?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P106424?lang=en&amp;tab=overview</a>	Efficient Lighting and Appliances Project (P106424   FY11): promote the efficient use of energy and to mitigate climate change by increasing the use of energy efficient technologies in the residential sector.  <i>This project was fully repaid and has been removed from the current Green Bond portfolio.</i>	Mexico	M	5	1,848,000	N/A	N/A	1,014,800	-	<ul style="list-style-type: none"> <li>• Cumulative over 5 years:</li> <li>• Exchange 45.8 million light bulbs and 1.884 million appliances replaced over a five-year period.</li> <li>• 5.07 million tons of CO<sub>2</sub> eq. emissions reduced.</li> <li>• 50-60% electricity saved in residential households.</li> <li>• 5,242 GWh in cumulative energy savings.</li> </ul>	-	-	-
Uzbekistan-Advanced Electricity Metering Project (P122773) has been removed from this report. The majority of its loan has been cancelled due to														
Total Allocated for Renewable Energy & Energy Efficiency												#		5,330.2
Cumulative Loan Repayments														(1047.92)
Total Allocated and Outstanding for Renewable Energy and Energy Efficiency														4,282.2

Notes:

NA – Indicator is not applicable for this project.

## Renewable Energy & Energy Efficiency

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number / Years/ Loans Approved)	Country	A/M*	Project Life	Target Results †				Other Results	Committed US\$ millions †	IBRD share †	Disbursed US\$ millions †
						Annual Energy Savings -MWh	Annual Energy Produced MWh	Renewable Capacity Added MW	Annual GHG Emissions Avoided Tons of CO <sub>2</sub> Eq. †				

– = Indicator is not measured/reported for this project.  
Amounts may not add up due to rounding.

- /a** Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.
- /b** Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.
- /c** Annual energy savings include reduced energy use for both power and heat, where applicable and calculated by the project's lifetime when possible (otherwise calculated based on the project's implementation period).
- /d** Annual GHG Emissions avoided are calculated by the project's lifetime when possible (otherwise calculated based on the project's implementation period).
- /e** Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.  
For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.
- /f** The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions.  
Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).
- /g** The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.
- /h** The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions.  
Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).
- /i** The loan was redenominated in EUR from US\$. Differences between the committed and allocated amount are due to exchange rates used for reporting purposes.
- /j** The value was updated to reflect country-specific conversion factor (300 gce/kWh) and replaced the standard conversion factor (IEA) previously used.
- /k** The project (P114069) originally included the production of renewable energy from biomass. The biomass component was cancelled and the project was reclassified as Energy Efficiency only.
- /l** The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

† The projects Energy Efficiency Financing II Project (P113786) and Efficient Lighting and Appliances Project (P106424) were fully repaid and, therefore, removed from the commitments and allocations of the current Green Bond portfolio.

# Clean Transportation

## Target Results -

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/M	Project Life	Pass/km and/or passengers	Ton/km and/or tons	GHG emissions reduced/ avoided -	Other Results -	Committed US\$ millions -	IBRD share -	Disbursed US\$ millions -
40	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P125630?tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P125630?tab=overview</a>	Greening Rio de Janeiro Urban Rail Transit – Additional Financing (P125630   FY12): provide a more efficient and cleaner suburban rail system.	P125630	Brazil	M	30	700,000 passengers per day (60% increase since 2009).	N/A	34,000 tons of CO <sub>2</sub> eq. reduced annually.	<ul style="list-style-type: none"> <li>● 100 new trains delivered and in operation.</li> <li>● Upgraded infrastructure.</li> <li>● Shorter travel and waiting times.</li> <li>● Bicycle parking facilities in select stations.</li> </ul>	519.3	73%	425.8
41	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P148129?tab=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P148129?tab=en&amp;tab=overview</a>	Tianjin Urban Transport Improvement Project (P148129   FY16): leverage the existing metro system and promote walking and biking in the urban core to make transport greener and safer.	P148129	China	M	20	<ul style="list-style-type: none"> <li>● 85,000 new metro users per day.</li> <li>● 135,000 new non-motorized trips per day.</li> </ul>	N/A	280 tons of CO <sub>2</sub> reduced annually.	<ul style="list-style-type: none"> <li>● 2.8 million trips benefit from improvements each day.</li> <li>● 50 km of roads rehabilitated, 111 metro stations improved and 5 new bus terminals completed.</li> </ul>	100.0	45%	72.5
42	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P144489">https://projects.worldbank.org/en/projects-operations/project-detail/P144489</a>	Quito Metro Line One (P144489   FY15): improve urban mobility and serve the growing demand for public transport.	P144489	Ecuador	M	30	286,000 passengers per day.	N/A	82,285 tons of CO <sub>2</sub> eq. emissions reduced annually.	<ul style="list-style-type: none"> <li>● US\$ 14 million in annual fuel savings.</li> <li>● 40% reduction in average travel time.</li> <li>● 1,800 jobs created.</li> </ul>	205.0	12%	203.2
43	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P158756?tab=en">https://projects.worldbank.org/en/projects-operations/project-detail/P158756?tab=en</a>	Quito Metro Line One (Additional Financing) (P158756   FY16): improve urban mobility in the city of Quito serving the growing demand for public transport and reduce emissions of pollutants and GHG.	P158756	Ecuador	M	30	-	N/A	-	<ul style="list-style-type: none"> <li>● 51% of jobs accessible in 60 minutes of travel time.</li> <li>● Reporting mechanism for cases of violence against women and girls implemented.</li> <li>● 20% of technical and professional staff, directly employed by the operator, that is female.</li> <li>○ This project represents the Additional Financing to Quito Metro Line One's parent project (P144489) and its target results should be read together with those of the parent project.</li> </ul>	230.0	36%	224.3
44	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P119343">https://projects.worldbank.org/en/projects-operations/project-detail/P119343</a>	Cebu Bus Rapid Transit Project (P119343   FY15): improve the quality, safety, and environmental performance of urban public transportation.	P119343	Philippines	M	20	275,000 additional passengers using public transportation annually.	N/A	193,350 tons of CO <sub>2</sub> eq. emissions avoided annually.	<ul style="list-style-type: none"> <li>● 22% reduction of annual accidents in city.</li> </ul>	116.0	51%	22.1
45	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P127867?tab=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P127867?tab=en&amp;tab=overview</a>	Qinghai Xining Urban Transport Project (P127867   FY14): provide more efficient, safer and cleaner transportation.	P127867	China	M	30	669,768 public transport beneficiaries from the project corridor.	N/A	-	<ul style="list-style-type: none"> <li>● Travel time of public transport users during the morning peak period on weekdays decreased from 35.2 to 32.8 minutes.</li> <li>● 145 electric buses procured to replace the old fuel-based public buses.</li> <li>● Jobs accessible using non-private transport increased from 77.1% to 83.6%.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	29.2	51%	29.2
46	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P148527?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P148527?lang=en</a>	Humaji Urban Transport Project II (P148527   FY16): improve mobility in selected transport corridors and reduce pollution from cars with a bus rapid transit (BRT) system.	P148527	China	M	30	546,961 people benefit from direct access to BRT corridors and greener/more efficient transport.	N/A	110,000 tons of CO <sub>2</sub> reduction estimated for 2020, the first operational year of the project (ex-ante estimate at appraisal).	<ul style="list-style-type: none"> <li>● 46.2 km of BRT routes operated.</li> <li>● 77.7% of commuters using smart cards.</li> <li>● 400% increase in average passenger boardings per bus/km during peak hours.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	71.6	21%	71.6
47	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P101525">https://projects.worldbank.org/en/projects-operations/project-detail/P101525</a>	Yunnan Honghe Prefecture Diannan Center Urban Transport (P101525   FY14): improve the safety, accessibility, and efficiency of transportation in core urban areas by building new infrastructure, staff training and education campaigns.	P101525	China	M	25	<ul style="list-style-type: none"> <li>● 742,000 people gaining access to urban transport service.</li> <li>● 38 million additional passenger trips annually.</li> </ul>	N/A	-	<ul style="list-style-type: none"> <li>● Reduced average travel time for public transport users of 10.5-15 minutes.</li> <li>● Reduced the number of transport related fatalities.</li> <li>● 15.4 km of roads constructed and/or re-functionalized.</li> </ul> <p><b>Project closed. Achieved results will be provided when the ICR is updated.</b></p>	150.0	43%	150.0
48	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P127723">https://projects.worldbank.org/en/projects-operations/project-detail/P127723</a>	Sao Paulo State Sustainable Transport (P127723   FY13): improve transport efficiency and safety, increase share of waterway transport, and improve resilience to climate change and natural disasters.	P127723	Brazil	Both	20	Fatalities on targeted roads decreased from 124 per year at appraisal to 58 at the end of 2020.	-	-	<ul style="list-style-type: none"> <li>● 680 km of roads rehabilitated.</li> <li>● 57 underwater monitoring stations installed resulting in improved environmental monitoring.</li> <li>● 45 municipalities with disaster risk mapping.</li> <li>● 5.5% reduction in average Vehicle Operating Costs on Project roads.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	265.1	43%	265.1
49	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P124978?tab=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P124978?tab=en&amp;tab=overview</a>	Changzhi Urban Transport (P124978   FY12): improve transport mobility and accessibility while reducing emissions in a safe, energy-saving, and efficient manner for all users.	P124978	China	M	25	-	N/A	-	<ul style="list-style-type: none"> <li>● 10% reduction in fuel consumption per passenger-km on project corridors.</li> <li>● 48% reduction in traffic fatalities.</li> <li>● Reduced travel times during peak hours.</li> <li>● 50 new electric buses in use.</li> <li>● 26 km of roads (non-rural) rehabilitated.</li> <li>● 25.6 km of bus priority lanes built.</li> </ul>	91.5	50%	91.5
50	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P119071">https://projects.worldbank.org/en/projects-operations/project-detail/P119071</a>	Hubei Xiangyang Urban Transport (P119071   FY12): improve mobility, safety, and efficiency in urban transportation.	P119071	China	M	25	52,000 beneficiaries of reduced travel times and greater access to the city center.	N/A	-	<ul style="list-style-type: none"> <li>● 40 new and higher quality buses in operation.</li> <li>● 7 average fatalities and severe injured associated with traffic accidents recorded.</li> <li>● 100 new bus stops constructed or upgraded.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	99.8	47%	99.8
51	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132154">https://projects.worldbank.org/en/projects-operations/project-detail/P132154</a>	Nanchang Urban Rail (P132154   FY13): provide an effective urban mass rapid transit system for a rapidly expanding city to reduce pollution, traffic congestion, and commuting times.	P132154	China	M	30	206,800 passenger- trips per day.	N/A	-	<ul style="list-style-type: none"> <li>● 23 minutes of reduced travel time on public transport.</li> <li>● 100% of stations with barrier-free accessibility to the wheel-chair bound and sight impaired.</li> <li>● 100% integration of facilities for bus/rail/bike transfer designed and constructed in line with integration plan.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	189.5	10%	189.5
52	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P112838?tab=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P112838?tab=en&amp;tab=overview</a>	Wuhan Second Urban Transport (P112838   FY10): improve efficiency, coverage and safety of public transport systems in an environmental, sustainable, integrated and safe way.	P112838	China	M	20	-	N/A	459,000	<ul style="list-style-type: none"> <li>● Establish facilities for pedestrians and cyclists.</li> <li>● 33% modal share of public transportation on target corridors.</li> <li>● An average of a 13 minute decrease in travel time at peak hours.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	100.0	16%	100.0
53	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P092631">https://projects.worldbank.org/en/projects-operations/project-detail/P092631</a>	Xian Sustainable Urban Transport (P092631   FY08): improve transport accessibility and mobility and enhance air quality monitoring of the urban transport system.	P092631	China	M	25	52,000 public bicycles with 70 million users annually.	N/A	-	<ul style="list-style-type: none"> <li>● Doubled area of bus terminals.</li> <li>● 275% increase in average speed of public transportation from 12 to 45 km/hr.</li> <li>● Air quality monitoring system/facility implemented.</li> <li>● 31,000 vehicles with emissions tested.</li> <li>● 320,214 m<sup>2</sup> of areas of bus terminals achieved.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	150.0	36%	150.0

# Clean Transportation

## Target Results -

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/M <sup>a</sup>	Project Life	Pass/km and/or passengers	Ton/km and/or tons	GHG emissions reduced/ avoided -	Other Results -	Committed US\$ millions -	IBRD share -	Disbursed US\$ millions -	
54	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P126454?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P126454?lang=en&amp;tab=overview</a>	Xinjiang Yining Urban Transport Improvement Project (P126454   FY12): provide improved access, safety, and efficiency in public transportation in an environmentally sustainable manner.	P126454	China	M	30	• 105.5 million passenger-trip per year (40% increase). • 61,000 additional people with access to quality urban transport services.	N/A	-	<ul style="list-style-type: none"> <li>• Reduced peak-hour travel times in two integrated corridors.</li> <li>• Reduced traffic accident fatalities.</li> <li>• 33.54 km of roads constructed in a new developing area.</li> <li>• 30.4 km of urban roads improved.</li> </ul> Updated for actual results at project completion.	90.9	48%	90.9	
55	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P117341">https://projects.worldbank.org/en/projects-operations/project-detail/P117341</a>	Harbin Railway (P117341   FY14): provide additional railway capacity and reduce transport time for passengers and freight.	P117341	China	M	30	3.6 million additional passengers per year.	-	-	<ul style="list-style-type: none"> <li>• Passenger travel time reduced by 250 minutes.</li> <li>• Reduced pollution from shift to electric railways from road and air transport.</li> <li>• Average number of train pairs of express passenger services between Harbin and Jiamusi operated per day increased from 2 to 30.</li> </ul> Updated for actual results at project completion.	281.7	5%	281.7	
56	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P133114">https://projects.worldbank.org/en/projects-operations/project-detail/P133114</a>	Helongjiang Cold Weather Smart Public Transportation System (P133114   FY14): upgrade the quality, safety and efficiency of public transport service in two cities in Helongjiang province.	P133114	China	M	20	Annual bus ridership volume along the targeted corridors increased by 18.64%.	N/A	27,382 tons of CO2 reduced annually (ex-ante estimate at approval)	<ul style="list-style-type: none"> <li>• Fatalities and major injuries decreased by 68% in Harbin and to zero in Mudanjiang.</li> <li>• Reduction in energy consumption by buses along the project corridors reduced by 0.3 L diesel/VKT in Harbin and by 0.2 L diesel/VKT in Mudanjiang.</li> <li>• 17.72 km of public transport corridors constructed in Harbin and 18 km in Mudanjiang.</li> </ul> Updated for actual results at project completion.	154.0	71%	154.0	
57	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132277?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P132277?lang=en&amp;tab=overview</a>	Jacobs Green Transport and Safety Improvement (P132277   FY14): improve transport safety and efficiency along the selected transport corridors and promote non-motorized trips within the pilot green corridor.	P132277	China	M	30	1,151,400 non- motorized trips per year in the green corridor.	N/A	-	<ul style="list-style-type: none"> <li>• Reduced annual transport related fatalities in the project corridors by 51%.</li> <li>• Travel time by public transport during peak hours reduced from 55.1 minutes to 45 minutes.</li> <li>• 17.3 km in green corridors exclusively dedicated to pedestrians and cyclists constructed.</li> <li>• 18.6 km rehabilitated with strong safety facilities and features.</li> <li>• 50,268 people whose road safety awareness is raised.</li> <li>• 584 officials and staffs trained.</li> </ul> Updated for actual results at project completion.	100.0	71%	100.0	
58	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P082466?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P082466?lang=en&amp;tab=overview</a>	Colombia Integrated Mass Transit Systems (P082466   FY10) : scale-up the National Urban Transport Project's physical scope through expanding trunk corridors and feeder routes to meet increased demand and improve associated infrastructure.	P082466	Colombia	M	24	-	N/A	-	<ul style="list-style-type: none"> <li>• 81.5 km of segregated trunk-lines constructed.</li> <li>• 95.5 km of pre-trunk and feeder lines constructed.</li> <li>• 4 terminals/garages constructed.</li> <li>• 125 stations constructed.</li> </ul> Updated for actual results at project completion.	295.9	40%	295.9	
59	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P117947">https://projects.worldbank.org/en/projects-operations/project-detail/P117947</a>	National Urban Transit Program (P117947   FY12): enhance the efficiency, affordability, quality, safety, and environmental sustainability of the provision of public transit services.	P117947	Colombia	M	15	175,585 daily ridership in public transport in participant cities (baseline: 230,781) <sup>b</sup>	N/A	-	<ul style="list-style-type: none"> <li>• Reduced average travel time in the intervened exclusive corridors from 27.90 to 18.64 minutes.</li> <li>• 13.75 km of sidewalks rehabilitated or constructed.</li> <li>• 141,775 m<sup>2</sup> of public space area rehabilitated or constructed.</li> <li>• 7.64 tons of PM2.5 emissions saved annually.</li> </ul> Updated for actual results at project completion.	159.0	68%	159.0	
60	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P143996">https://projects.worldbank.org/en/projects-operations/project-detail/P143996</a>	Manta Public Services Improvement Project (P143996   FY14): improve transport services and the quality and sustainability of water and sanitation.	P143996	Ecuador	M	30	-	N/A	-	<ul style="list-style-type: none"> <li>• Continuity of water supply service increased from 14 hours to 19.3 hours.</li> <li>• 6,107 and 12,654 piped household water connections respectively constructed and rehabilitated.</li> <li>• Travel time in public transport decreased from 15 to 13 minutes.</li> <li>• 23,024 people provided with paved access to their houses in lower-income neighborhoods.</li> <li>• Walkability index increased by 1.9% (from 4.8% to 6.7%).</li> <li>• 9.12 km of quality cycle infrastructure implemented.</li> </ul> Updated for actual results at project completion.	100.0	100%	100.0	
61	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P110371">https://projects.worldbank.org/en/projects-operations/project-detail/P110371</a>	Sustainable Urban Transport (P110371   FY10): improve government capacity to manage climate friendly urban transport solutions focusing on public and non-motorized transport.	P110371	Indonesia	M	30	5,750 additional passengers per day.	N/A	312,000 tons of CO <sub>2</sub> e emissions reduced annually over the first 10 years.	<ul style="list-style-type: none"> <li>• 88 new safe sidewalks and cycle tracks.</li> <li>• 50% public transport trip mode share.</li> </ul> Updated for actual results at project completion.	88.8	32%	88.8	
62	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P131765?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P131765?lang=en&amp;tab=overview</a>	Eastern Dedicated Freight Corridor - II (P131765   FY14): increase the capacity and quality of freight rail service.	P131765	India	M	22	N/A	22 tons of freight traffic annually.	400,000 tons of CO <sub>2</sub> e emissions reduced annually.	<ul style="list-style-type: none"> <li>• 1,133 km of new freight-only rail.</li> <li>• Axle-load limit raised from 23 to 25 tons increasing speeds.</li> </ul> Project closed. Achieved results will be provided when the ICR is released.	653.6	67%	653.6	
63	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P107159?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P107159?lang=en&amp;tab=overview</a>	Urban Transport Transformation (P107159   FY10): reduce carbon emissions and transform public transportation efficiency.	P107159	Malaysia	M	13	-	N/A	46,842 tons of CO <sub>2</sub> e emissions reduced annually.	<ul style="list-style-type: none"> <li>• 2.1 integrated mass transit corridors of 15 km each.</li> </ul> Updated for actual results at project completion.	52.0	6%	52.0	
64	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P145610?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P145610?lang=en</a>	Lima Metro Line 2 Project (P145610   FY16): construction of a 35 km subway line and related infrastructure improving transportation in the east-west axis of the Lima-Callao Metropolitan area.	P145610	Peru	M	17	-	N/A	-	<ul style="list-style-type: none"> <li>• 7 stations constructed.</li> <li>• 7 kilometers of rail infrastructure completed.</li> <li>• One depot completed.</li> <li>• 192 rolling stock provided.</li> </ul> Updated for actual results at project completion.	70.0	4%	70.0	
Metro Manila Bus Rapid Transit Line 1 (P132401) project was removed from this report as the full undisbursed balance for the IBRD loan was canceled in June 2022, except for the front end fees (USD 101,750), due to project implementation issues.												-	-	-
<b>Total Allocated for Clean Transportation</b>											<b>4,362.9</b>		<b>4,140.4</b>	
<b>Cumulative Loan Repayments</b>													<b>(845.41)</b>	
<b>Total Allocated and Outstanding for Clean Transportation</b>													<b>3,595.0</b>	

**Notes:**

- M/A – Indicator is not applicable for this project.
- - Indicator is not measured/reported for this project.
- Amounts may not add up due to rounding.

<sup>a</sup> Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.

<sup>b</sup> Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.

<sup>c</sup> Annual GHG Emissions avoided are calculated by the project's lifetime when possible (otherwise calculated based on the project's implementation period).

<sup>d</sup> Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.

For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.

# Clean Transportation

Target Results \*

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/M *	Project Life	Pass/km and/or passengers	Ton/km and/or tons	GHG emissions reduced/ avoided *	Other Results *	Committed US\$ millions *	IBRD share *	Disbursed US\$ millions *
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*/#* The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*/#* The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except

if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.

*/g* The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans

denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*/h* Expected results of the project, including daily ridership, were affected by the COVID-19 pandemic during 2020.

*/i* The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with

the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a

match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant

in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

# Water & Wastewater Management

#	Link to More Information	Project Name and Description (Number   Year(s) Loans Approved)	Project ID	Country	A/M <sup>a</sup>	Project Life	Target Results <sup>b</sup>				Other Results <sup>c</sup>	Committed US\$ millions <sup>d</sup>	IBRD share <sup>e</sup>	Disbursed US\$ millions <sup>f</sup>
							Annual water savings	Annual amount of wastewater treated/reused/avoided	Annual amount of raw/untreated sewage sludge treated & disposed of	Annual amount of sludge that is reused				
65	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P160911">https://projects.worldbank.org/en/projects-operations/project-detail/P160911</a>	Emergency Water Security and Efficiency (P160911   FY17): to improve availability of water supply in drought vulnerable areas, increase the efficiency of Water Utilities Corporation, and strengthen wastewater management in selected systems.	P160911	Botswana	A	20	-	2,620 m <sup>3</sup> of additional wastewater treated per day (956,000 annual).	85% of average annual COD removal efficiency from wastewater at WWTP.	-	<ul style="list-style-type: none"> <li>580,000 direct project beneficiaries.</li> <li>14,500 m<sup>3</sup> of additional water made available per day.</li> <li>39,500 m<sup>3</sup> of water delivered to consumers per day.</li> <li>75,000 piped household water connections that are benefiting from rehabilitation.</li> </ul>	145.5	91%	50.8
66	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P130682?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P130682?lang=en</a>	Espirito Santo Integrated Sustainable Water Management Project (P130682   FY14): improve sustainable water resources management and increase access to sanitation.	P130682	Brazil	Both	25	-	-	1,590 tons of BOD removed a year.	-	<ul style="list-style-type: none"> <li>2.6 million people benefit.</li> <li>70% of State with disaster warning system.</li> <li>32,897 new household sewer connections.</li> <li>164,000 people with improved sanitation.</li> <li>2,000 ha reforested.</li> </ul>	62.1	70%	26.5
67	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P165683">https://projects.worldbank.org/en/projects-operations/project-detail/P165683</a>	Parabá Improving Water Resources Management and Services Provision (P165683   FY19): strengthen capacity for integrated water resources management in the State, improve reliability of water services in the Agreste and Borborema regions, and improve the operational efficiency of water and wastewater services in the João Pessoa Metropolitan Region (JPMR).	P165683	Brazil	Both	30	17,000,000 m <sup>3</sup> of non-revenue water reduced annually (in the JPMR).	-	9,600 tons of BOD reduced (in the JPMR) a year.	-	<ul style="list-style-type: none"> <li>235,000 beneficiaries provided with reliable water services.</li> <li>Annual operation water management plan for the Paraíba river issued.</li> <li>23,000,000 m<sup>3</sup> of increased water treatment capacity (in the Agreste and Borborema Regions) annually.</li> <li>27,846 tCO<sub>2</sub>e eq. reduced annually.</li> <li>4 million people benefiting directly and indirectly from the project.</li> </ul>	73.6	61%	2.4
68	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P158119">https://projects.worldbank.org/en/projects-operations/project-detail/P158119</a>	Atal Bhajal Yojana - National Groundwater Management Improvement (P158119   FY18): improve the management of groundwater resources in the selected states.	P158119	India	Both	24	-	-	N/A	N/A	<ul style="list-style-type: none"> <li>7 States with improved groundwater monitoring and disclosure of groundwater data.</li> <li>80 blocks with arrest in the rate of decline of groundwater levels.</li> <li>15,000,000 program beneficiaries relying on sustainable groundwater resources for prosperity and health.</li> <li>200,000 ha with reduction in water consumption (of which 160,000 ha provided with new/improved irrigation and drainage services).</li> <li>5.6 million tons of CO<sub>2</sub>e eq. emissions avoided annually due to reduced groundwater pumping.</li> </ul>	420.0	45%	56.2
69	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P147854?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P147854?lang=en</a>	Lake Qaraoun Pollution Prevention (P147854   FY16): reduce the quantity of untreated municipal sewage discharged into the Litani River and address pollution around Qaraoun Lake.	P147854	Lebanon	A	14	-	30,000 m <sup>3</sup> of municipal wastewater collected and treated daily.	1,250 m <sup>3</sup> of trash removed from river banks.	-	<ul style="list-style-type: none"> <li>50% reduction in pollutant load (nitrogen) to waterways.</li> <li>344,000 of direct beneficiaries.</li> <li>7,300 new household sewer connections.</li> <li>200 km of sewer network constructed in the project area.</li> </ul>	55.0	92%	10.1
70	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P152851?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P152851?lang=en</a>	Can Tho Urban Development and Resilience (P152851   FY16): reduce flood risk in the urban core area, improve its connectivity to new urban growth areas, and improve the city's capacity to manage disaster risk.	P152851	Vietnam	A	29	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>2,675 ha in urban core land area protected from floods.</li> <li>25-30% reduction in travel time between urban core and Cai Rang center.</li> <li>420,000 people as direct beneficiaries in which 24,000 are from ethnic minorities and 216,000 are female.</li> <li>12 km of new and upgraded sewers/pipes installed.</li> </ul>	125.0	39%	10.2
71	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P112073">https://projects.worldbank.org/en/projects-operations/project-detail/P112073</a>	Federal Integrated Water Sector (P112073   FY12): improve water resource management including assessing how climate change impacts water availability, and improve coordination and capacity of key federal institutions in the water sector.	P112073	Brazil	A	30	-	-	-	-	<ul style="list-style-type: none"> <li>14 water resources management institutions supported by the project.</li> <li>Increased water user efficiency and proper management of solid waste.</li> <li>Improved quality of water service in both urban and rural areas.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	16.4	75%	16.4
72	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P098925">https://projects.worldbank.org/en/projects-operations/project-detail/P098925</a>	Bengbu Integrated Environment Improvement (P098925   FY08): improve effectiveness and resilience of urban water supply, treatment services and flood prevention and control systems through improved infrastructure and watershed management.	P098925	China	A	25	-	Industrial Wastewater Treatment Plant (WWTP) of 20,000 m <sup>3</sup> /day and Water Treatment Plant (WTP) of 30,000 m <sup>3</sup> /day.	-	-	<ul style="list-style-type: none"> <li>85.5% flood protection of Bengbu's city land area (131.84 km of storm drainage networks built or upgraded).</li> <li>Pollution reduction reached 13%.</li> <li>3 months of water supply resumes.</li> <li>764,300 residents benefiting from secured water supply during dry season.</li> <li>6 storm water drainage pumping stations (with total capacity of 240 m<sup>3</sup>/s) built.</li> <li>9.2 km of sewer interceptors and secondary sewer collection network built.</li> <li>60 km of wastewater networks completed.</li> <li>2,690 tons per year of COD pollution reduction.</li> <li>50% of wastewater collected and treated increased.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	99.9	45%	99.9
73	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P114138">https://projects.worldbank.org/en/projects-operations/project-detail/P114138</a>	Water Conservation II (P114138   FY12): improve agriculture water management and increase agriculture water productivity.	P114138	China	A	30	<ul style="list-style-type: none"> <li>22.67 million m<sup>3</sup> reduction in water withdrawal.</li> <li>16.52 million m<sup>3</sup> reduction in groundwater overdraft.</li> <li>5.80 million m<sup>3</sup> reduction in groundwater withdrawal.</li> </ul>	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>15% increase in main crop yields (507,850 metric tons of total yield of main food crops).</li> <li>RMB 200 increase in per capita annual agricultural income.</li> <li>Reverse the trend of declining water table in groundwater irrigated areas.</li> <li>Increase by 0.40kg/m<sup>3</sup> in agricultural water productivity.</li> <li>59,420 water users and 59,849 ha provided with new/improved irrigation and drainage services.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	76.7	50%	76.7
74	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P101829">https://projects.worldbank.org/en/projects-operations/project-detail/P101829</a>	Xining Flood and Watershed Mgmt (P101829   FY09): improve sustainable utilization of land and water resources by improved flood control management, wastewater collection and treatment, and watershed management.	P101829	China	A	30	-	4,825,000 tons of untreated wastewater flowing into rivers avoided annually.	N/A	N/A	<ul style="list-style-type: none"> <li>1,127,000 tons of soil loss avoided annually.</li> <li>424,440 people benefit from reduced vulnerability to flood events.</li> <li>36.22 km<sup>2</sup> protected from flooding.</li> <li>87 km of wastewater collection networks built or upgraded.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	100.0	53%	100.0
75	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P109932">https://projects.worldbank.org/en/projects-operations/project-detail/P109932</a>	Emergency Recovery and Disaster Risk Management (P109932   FY08, FY12): provide infrastructure recovery and strengthen risk management capacity in tropical storm affected areas.	P109932	Dominican Republic	A	30	-	-	N/A	N/A	<ul style="list-style-type: none"> <li>37,218 ha of damaged irrigation rebuilt.</li> <li>152 km transmission lines restored to "disaster-resistant" standards.</li> <li>Santiago waste water operation restored.</li> <li>252 MW of damaged hydropower facilities restored and dam safety standards improved.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	99.9	100%	99.9
76	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P100954">https://projects.worldbank.org/en/projects-operations/project-detail/P100954</a>	Andhra Pradesh Water Sector Improvement (P100954   FY10): improve irrigation services on a sustainable basis and strengthen the state's institutional capacity for multisectoral development and of its water resources.	P100954	India	A	30	-	-	-	-	<ul style="list-style-type: none"> <li>Improved irrigation service delivery on a sustainable basis.</li> <li>Increased cropping intensity, crop diversity, and productivity of crops, livestock, and fish.</li> <li>788,459 ha provided with new irrigation or drainage services.</li> <li>425,992 water users provided with new/improved irrigation and drainage services.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	396.2	46%	396.2
77	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P114348">https://projects.worldbank.org/en/projects-operations/project-detail/P114348</a>	Water Resources and Irrigation Management Program 2 (P114348   FY11): improve infrastructure and government capacity for river basin water resource and irrigation management.	P114348	Indonesia	A	25	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>Increased crop productivity by providing more efficient and reliable irrigation water.</li> <li>500,000 farmer households from provinces involving 12 river basins benefited.</li> <li>5.1 million people benefiting from the project.</li> <li>395,450 ha provided with new irrigation or drainage services.</li> <li>19,395,000 Rp of losses avoided per year from RIM (river improvement management) activities.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	119.2	74%	119.2
78	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P095847">https://projects.worldbank.org/en/projects-operations/project-detail/P095847</a>	Second Water Sector Investment (P095847   FY09): promote better water management through efficiency improvements in irrigation and increased capacity for watershed management.	P095847	Tunisia	A	30	-	-	N/A	N/A	<ul style="list-style-type: none"> <li>24,436 ha rehabilitated with irrigation and drainage systems at closing.</li> <li>21,128 households supplied with new drinking water.</li> <li>21,832 ha provided with drainage systems.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	15.1	19%	15.1
<b>Total Allocated for Water, Wastewater, and Waste Management</b>											<b>1,804.8</b>		<b>1,079.8</b>	
<b>Cumulative Loan Repayments</b>													<b>(228.8)</b>	
<b>Total Allocated and Outstanding for Water and Wastewater Management</b>													<b>851.0</b>	

Notes:

N/A – Indicator is not applicable for this project.

-- Indicator is not measured/reported for this project.

Amounts may not add up due to rounding.

<sup>a</sup> Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.

<sup>b</sup> Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in)

○ Project Active in FY22

⊙ Project Closed in FY22

● Project Closed before FY22



# Water & Wastewater Management

## Target Results \*

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/M *	Project Life	Annual water savings	Annual amount of wastewater treated/reused/ avoided	Annual amount of raw/untreated sewage sludge treated & disposed of	Annual amount of sludge that is reused	Other Results *	Committed US\$ millions *	IBRD share *	Disbursed US\$ millions *
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most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.

*/c* Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.

For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.

*/d* The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*/e* The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.

*/f* The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*/g* The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

# Solid Waste Management

## Target Results \*

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year(s) Loans Approved)	Project ID	Country	A/M *	Project Life	Waste prevented, minimized, reused or recycled	Annual GHG emissions reduced *	Other Results *	Committed US\$ millions †	IBRD share *	Disbursed US\$ millions
79	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P173021">https://projects.worldbank.org/en/projects-operations/project-detail/P173021</a>	Solid Waste Emergency and Efficiency Project (P173021   FY21); mitigate the impacts of flooding and COVID-19 emergencies and improve solid waste management services in Karachi.	P173021	Pakistan	M	20	5,000 MT of solid waste collected from Karachi daily and safely disposed.	1,404,602	<ul style="list-style-type: none"> <li>• 5,000,000 MT of available capacity for safe disposal of solid waste collected from the population of Karachi</li> <li>• 100,000 persons for whom flood risks, and exposure to pathogens including COVID-19, was reduced through cleaning of drainage channels.</li> <li>• 500,000 residents for whom urban living conditions have improved owing to better solid waste management services</li> </ul>	86.0	95%	1.4
80	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P106702">https://projects.worldbank.org/en/projects-operations/project-detail/P106702</a>	Integrated Solid Waste & Carbon Finance (P106702   FY11); improve treatment and final disposal of municipal solid waste and reduce methane emissions.	P106702	Brazil	M	19	9,000 tons per day of waste disposed in environmentally	-	<ul style="list-style-type: none"> <li>• 3 dumps closed.</li> <li>• 7 municipalities made investments to improve recycling and composting activities.</li> </ul>	16.7	31%	16.7
81	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P104937">https://projects.worldbank.org/en/projects-operations/project-detail/P104937</a>	Solid Waste Sector DPL (P104937   FY09); enhance the governance of the solid waste sector.	P104937	Morocco	M	26	N/A	N/A	<ul style="list-style-type: none"> <li>• 24,436 ha rehabilitated with irrigation and drainage systems.</li> <li>• 21,128 households supplied with new drinking water.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	104.0	100%	104.0
										206.7		122.1
												(31.3)
												90.8

Notes:

N/A – Indicator is not applicable for this project.  
 -- Indicator is not measured/reported for this project.  
 Amounts may not add up due to rounding.

*A* Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.

*B* Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.

*C* Annual GHG Emissions avoided are calculated by the project's lifetime when possible (otherwise calculated based on the project's implementation period).

*D* Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.

For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.

*E* The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*F* The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.

*G* The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

*H* The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

# Biodiversity

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Years Loans Approved)	Project ID	Country	A/M*	Project Life	Area under sustainable management practices	GHG emissions reduced/ avoided -	Other Results -	Biodiversity component share	Committed US\$ millions -	IBRD share -	Disbursed US\$ millions -	
														Target Results -
82	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P133705?locations=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P133705?locations=en&amp;tab=overview</a>	Second Community Agriculture Resource Management and Competitiveness Project (P133705   FY14): improve pasture-based livestock management in targeted areas	P133705	Armenia	A	25	110,000 ha of land managed with sustainable practices.	N/A	<ul style="list-style-type: none"> <li>At least 10,000 pasture users benefit through their membership in Pasture Users' Cooperatives.</li> </ul>	26%	20.6	54%	19.5	
83	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P164047">https://projects.worldbank.org/en/projects-operations/project-detail/P164047</a>	Forest Ecosystem Improvement in the Upper Reaches of Yangtze River Basin Program (P164047   FY20): improve sustainable forest ecosystem management in support of Large-Scale Greening Sichuan Program.	P164047	China	M	30	-	Sequestration of 23.52 million tCO <sub>2</sub> e, over the Program's lifetime. Equivalent to an annual average of 784,000 tCO <sub>2</sub> e.	<ul style="list-style-type: none"> <li>130,000 ha of mixed-species plantation established through afforestation and restoration of degraded forests.</li> <li>100,000 ha of degraded and monoculture forests restored using a diversified forest structure.</li> <li>86 provincial, county and forest farms long-term forest management plans developed.</li> <li>14,000 farmers and county-level staff received trainings.</li> </ul>	87%	139.9	22%	67.3	
84	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132317?locations=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P132317?locations=en&amp;tab=overview</a>	Rural Development (and Additional Financing) (P132317   FY15, FY18, FY21): increase rural incomes and enhance farm and fisheries productivity in the targeted areas.	P132317	Philippines	A	30	-	N/A	<ul style="list-style-type: none"> <li>Increase incomes of about 1.9 million farmers and fishermen and the value of their products.</li> <li>Average travel time from farm to markets reduced by 30% through 1,265 km of new roads.</li> <li>250 pre and post harvest facilities constructed or rehabilitated.</li> </ul>	6%	709.1	85%	477.1	
85	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P147780">https://projects.worldbank.org/en/projects-operations/project-detail/P147780</a>	Forestry Development Project (and Additional Financing) (P147780   FY15, FY18): enhance silvicultural management and reforestation and afforestation, increase the use of logging residues and improve the public good contribution from forests in targeted forest areas.	P147780	Belarus	A	30	4,842,805 ha of new areas outside protected areas managed as biodiversity-friendly.	6,095,032 metric tons of CO <sub>2</sub> emissions sequestered over the project lifetime.	<ul style="list-style-type: none"> <li>3,448 people trained.</li> <li>38,487 project beneficiaries.</li> <li>4 nursery lines for container-grown seedlings of native tree species established.</li> <li>Capacity to produce high quality seedlings increased to 25,100,000 container-grown seedlings per year in project-financed nurseries.</li> <li>167,000 ha of young and middle-aged production-forest thinned according to approved management plans.</li> </ul> <b>Updated for actual results at project completion.</b>	39%	53.2	96%	53.2	
86	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P132873?locations=en">https://projects.worldbank.org/en/projects-operations/project-detail/P132873?locations=en</a>	Habei Rural Renewable Energy Development Project (P132873   FY15): demonstrate sustainable biogas production and utilization to reduce environmental pollution and supply clean energy.	P132873	China	M	25	N/A	58,780 tons of CO <sub>2</sub> emissions reduced annually (by 2020).	<ul style="list-style-type: none"> <li>By 2020:</li> <li>42,000,000 m<sup>3</sup> of biogas used annually.</li> <li>96,100 rural resident households with access to biogas supply.</li> <li>Additional biogas used as fuel for public transportation.</li> <li>221,700 tons and 241,600 tons of, respectively, crop residues and livestock manure treated by the project each year.</li> </ul> <b>Project closed. Achieved results will be provided when the ICR is released.</b>	11%	69.2	47%	69.2	
87	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P127813?locations=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P127813?locations=en&amp;tab=overview</a>	Coral Reef Rehabilitation and Management Program-Coral Triangle Initiative (P127813   FY14): protect and sustainably manage unique coral ecosystems in selected districts and provinces.	P127813	Indonesia	A	20	1.4 million ha of marine areas brought under biodiversity protection.	N/A	<ul style="list-style-type: none"> <li>Reduce destructive fishing in selected areas.</li> <li>1,140 direct beneficiaries in fishing communities.</li> </ul> <b>Project closed. Achieved results will be provided when the ICR is released.</b>	37%	3.8	89%	3.7	
88	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P124181?locations=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P124181?locations=en&amp;tab=overview</a>	Sustainable Management of Natural Resources and Climate Change (P124181   FY12): support Uruguay's efforts to promote farmer adoption of climate-smart agricultural and livestock practices and improved natural resource management practices in project areas.	P124181	Uruguay	Both		2,703,647 ha under sustainable landscape management practices.	A carbon sink of 63,506 tons of CO <sub>2</sub> eq. (ex-ante estimate at approval)	<ul style="list-style-type: none"> <li>8,065 farmers and agro-livestock professionals/technicians trained.</li> <li>5,533 farmers adopting improved agricultural technology.</li> <li>1,172 ha provided with new/improved irrigation or drainage services.</li> </ul> <b>Updated for actual results at project completion.</b>		49.0	70%	49.0	
89	<a href="http://projects.worldbank.org/P163444?locations=en">http://projects.worldbank.org/P163444?locations=en</a>	Additional Financing - Sustainable Management of Natural Resources and Climate Change (P163444   FY18): support Uruguay's efforts to promote farmer adoption of climate-smart agricultural and livestock practices and improved natural resource management practices in the project areas.	P163444			21				11%	15.0	21%	14.4	
90	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P129923?locations=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P129923?locations=en&amp;tab=overview</a>	Forest Fire Response (P129923   FY13): improve forest fire prevention and management and enhance sustainable forest management.	P129923	Russian Federation	Both	18	-	4,976,559 tons of CO <sub>2</sub> eq. emissions avoided every year over 20 years.	<ul style="list-style-type: none"> <li>84% of fires contained within 24 hours following detection in project PAs (Protected Areas).</li> <li>5 ha of fires at detection in project PAs.</li> <li>13 Protected Area fire brigades equipped and trained.</li> </ul> <b>Updated for actual results at project completion.</b>	12%	14.3	33%	14.3	
<b>Total Allocated for Biodiversity</b>														
<b>Cumulative Loan Repayments</b>														
<b>Total Allocated and Outstanding for Biodiversity</b>														
											1,074.1		767.6	
													(56.7)	
													710.9	

Notes:  
 NA - Indicator is not applicable for this project.  
 -- Indicator is not measured/reported for this project.  
 Amounts may not add up due to rounding.

*A* Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.  
*B* Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.  
*C* Annual GHG Emissions avoided are calculated by the project's lifetime when possible (otherwise calculated based on the project's implementation period).  
*D* Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.  
 For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.  
*E* The biodiversity component share reflects the share of the total project investment that directly support biodiversity work.  
*F* The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).  
*G* The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except

# Biodiversity

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

										Target Results *			
#	Link to More Information	Project Name and Description (Number   Year's Loans Approved)	Project ID	Country	A/M *	Project Life	Area under sustainable management practices	GHG emissions reduced/ avoided *	Other Results *	Biodiversity component share *	Committed US\$ millions *	IBRD share *	Disbursed US\$ millions *

if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.

# The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

/ For legacy reasons, we count the Additional Financing of the Sustainable Management of Natural Resources and Climate Change project as an independent project.

/ The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

# Agriculture, Land Use, Forests & Ecological Resources

● Project Active in FY22  
● Project Closed in FY22  
● Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/E*	Project Life	Results	Committed US\$ millions *	IBRD share *	Disbursed US\$ millions *
91	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P176905">https://projects.worldbank.org/en/projects-operations/project-detail/P176905</a>	Climate Intelligent and Inclusive Agri-food Systems Project (P176905   FY22): support economic recovery and promote climate smart practices in Argentina's agri-food system.	P176905	Argentina	A	20	<ul style="list-style-type: none"> <li>63,000 beneficiaries with access to new or improved rural public infrastructure for agricultural risk mitigation and natural resources management.</li> <li>388,855 tCO<sub>2</sub>e reduced annually.</li> <li>750 subprojects financing the adoption of climate smart agriculture technologies and/or practices to anticipate and prevent negative impacts of climate.</li> <li>35,000 hectares of area provided with new and improved irrigation and/or drainage services.</li> <li>3,800 jobs created under initiatives supported by the Project.</li> </ul>	244.0	73%	28.1
92	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P160408?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P160408?lang=en&amp;tab=overview</a>	Maharashtra Project on Climate Resilient Agriculture (P160408   FY18): enhance climate resilience and profitability of smallholder farming systems in selected districts of Maharashtra.	P160408	India	A	20	<ul style="list-style-type: none"> <li>20% increase in water productivity at farm level from 0.23 to 0.276 kg per m.</li> <li>Annual reduction of 5,661,644 tCO<sub>2</sub>e.</li> <li>1,320,000 farmers reached with agricultural assets or services.</li> <li>624,000 ha provided with new/improved irrigation or drainage services.</li> <li>Improved availability for 83,900,000 m<sup>3</sup> of surface water storage capacity for agriculture.</li> </ul>	420.0	70%	211.5
93	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P157836">https://projects.worldbank.org/en/projects-operations/project-detail/P157836</a>	Meghalaya Community-led Landscapes Management Project (P157836   FY18): strengthen community-led landscapes management in selected landscapes in the state of Meghalaya.	P157836	India	A	10	<ul style="list-style-type: none"> <li>31,510 ha of land area under sustainable management practices.</li> <li>12,355 ha of forest area brought under management plans.</li> <li>400 villages provided with capacity-building package to support community-led natural resource management.</li> <li>At least 100,000 ultimate project beneficiaries.</li> <li>175,419 net sequestration of CO<sub>2</sub> annually, based on the project economic life.</li> </ul>	43.0	80%	23.6
94	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P158522?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P158522?lang=en</a>	Tamil Nadu Irrigated Agriculture Modernization Project (P158522   FY18): enhance productivity and climate resilience of irrigated agriculture, improve water management, and increase market opportunities for farmers and agro-entrepreneurs in selected sub-basin areas of Tamil Nadu.	P158522	India	A	20	<ul style="list-style-type: none"> <li>160,000 ha provided with improved irrigation or drainage services.</li> <li>Climate-resilient technologies promoted on 75,000 ha.</li> <li>500,000 project beneficiaries.</li> <li>100,000 ha under improved agronomic practices and 25,100 ha under improved fish production.</li> <li>Modernized 4,741 tank irrigation systems.</li> <li>284,000 tCO<sub>2</sub>e avoided annually.</li> </ul>	318.0	70%	158.7
95	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P162679">https://projects.worldbank.org/en/projects-operations/project-detail/P162679</a>	West Bengal Major Irrigation and Flood Management Project (P162679   FY20): improve irrigation service delivery, strengthen flood risk management and improve climate change resilience.	P162679	India	A	40	<ul style="list-style-type: none"> <li>376,448 ha provided with improved irrigation or drainage services.</li> <li>30% reduced flood depth at monitored points compared with equivalent flood depth from 2008-2017.</li> <li>Prevent decline of groundwater levels by 50% in critical areas.</li> <li>53,096 tCO<sub>2</sub>e reduced annually.</li> <li>2.68 million people directly or indirectly benefiting from the Project, including farmer households and the State and district irrigation management agencies.</li> <li>168.9 km of main canals modernized and 111 of river embankment rehabilitated.</li> </ul>	107.3	35%	28.2
96	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P163533">https://projects.worldbank.org/en/projects-operations/project-detail/P163533</a>	Odisha Integrated Irrigation Project for Climate Resilient Agriculture (P163533   FY20): intensify and diversify agricultural production and enhance climate resilience in selected districts of Odisha.	P163533	India	A	26	<ul style="list-style-type: none"> <li>28,800 farmers adopting improved agricultural technology.</li> <li>72,805 ha provided with new/improved irrigation or drainage services.</li> <li>30% increase in area under crops that are less water demanding.</li> <li>192,225 tCO<sub>2</sub>e reduced annually.</li> </ul>	118.6	70%	8.6
97	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P165129">https://projects.worldbank.org/en/projects-operations/project-detail/P165129</a>	Integrated Project for Source Sustainability and Climate Resilient Rainfed Agriculture in Himachal Pradesh (P165129   FY20): improve upstream watershed management and increase agricultural water productivity in selected villages in Himachal Pradesh.	P165129	India	Both	20	<ul style="list-style-type: none"> <li>12,000 ha under sustainable landscape management practices, of which 1,200 ha managed for improved soil.</li> <li>200 ha of new farm area brought under higher efficiency irrigation.</li> <li>50% of participating farmers adopting climate smart agriculture practices.</li> <li>10,000 farmers adopting improved agricultural technology.</li> <li>1,500 ha provided with new/improved irrigation or drainage services.</li> <li>20,000 farmers reached with agricultural assets or services.</li> <li>87,294 tCO<sub>2</sub>e reduced annually.</li> </ul>	64.8	80%	14.0
98	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P172187">https://projects.worldbank.org/en/projects-operations/project-detail/P172187</a>	Rejuvenating Watersheds for Agricultural Resilience through Innovative Development (P172187   FY22): strengthen capacities of national and state institutions to adopt improved watershed management for increasing farmers' resilience and support value chains in selected watersheds of participating states.	P172187	India	A	20	<ul style="list-style-type: none"> <li>200,000 ha of land area treated with science-based watershed management technologies.</li> <li>43,200 farmers who adopt resilient agriculture technologies and practices.</li> <li>20% increase in climate-adjusted soil moisture in targeted watershed areas.</li> <li>11.9 million tCO<sub>2</sub>e sequestered over 20-years lifetime (0.59 million tCO<sub>2</sub>e annually).</li> <li>308,000 program beneficiaries.</li> </ul>	59.8	28%	7.0
99	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P157585?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P157585?lang=en</a>	Strategic Irrigation Modernization and Urgent Rehabilitation Project (P157585   FY18): improve irrigation services and strengthen accountability of irrigation schemes management in selected areas.	P157585	Indonesia	A	30	<ul style="list-style-type: none"> <li>276,000 ha provided with new/improved irrigation or drainage services.</li> <li>Reduced net annual average emissions by 439,743 tons of CO<sub>2</sub> eq.</li> <li>Increase by 20% crop intensity.</li> <li>308,000 farmer households provided with improved irrigation services.</li> </ul>	250.0	43%	56.6
100	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P150930?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P150930?lang=en</a>	Large Scale Irrigation Modernization (P150930   FY16): expand agriculture through the adoption of irrigation techniques that make more efficient use of water resources, while building better ties between farmers and markets.	P150930	Morocco	A	25	<ul style="list-style-type: none"> <li>9,274 farmers benefit.</li> <li>100% of area with access to water on demand in peak period.</li> <li>20,700 ha with improved irrigation technologies.</li> </ul>	150.0	80%	117.9
101	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P155642?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P155642?lang=en</a>	Third South West Indian Ocean Fisheries Governance and Shared Growth Project (SIVOFa3) (P155642   FY18): improve management of marine areas and fisheries in targeted zones and strengthen fisheries value chains in the Seychelles.	P155642	Seychelles	A	20	<ul style="list-style-type: none"> <li>5,000,000 ha of sustainable-use marine protected areas.</li> <li>44% increase in key demersal indicator species stable or rebuilding in the Mahé Plateau fisheries.</li> <li>40% increase in by-catch landed and sold in the Seychelles resulting in expansion of value chains, job creation and increased revenues in the country.</li> </ul>	4.3	43%	2.1
102	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P158418">https://projects.worldbank.org/en/projects-operations/project-detail/P158418</a>	Turkey Irrigation Modernization (P158418   FY19): improve irrigation delivery, through rehabilitation and modernization of distribution infrastructure in selected schemes, and through strengthening of capacity of Water Users Associations.	P158418	Turkey	Both	30	<ul style="list-style-type: none"> <li>50,764 ha provided with new/improved irrigation or drainage services.</li> <li>17,312 users provided with improved irrigation service.</li> <li>15,911 tons of CO<sub>2</sub> eq. emissions avoided annually.</li> <li>15% increase in irrigation efficiency.</li> <li>1,521 km of modernized irrigation network.</li> <li>80% of grievances addressed within stipulated timeframe.</li> </ul>	231.2	99%	35.9
103	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P157736?lang=en">https://projects.worldbank.org/en/projects-operations/project-detail/P157736?lang=en</a>	Additional Financing for Punjab Irrigated Agriculture Productivity Program Project (P157736   FY18): improve the productivity of water use in irrigated agriculture.	P157736	Pakistan	A	20	<ul style="list-style-type: none"> <li>57% reduction in water losses for 17,300 watercourses improved and 90,000 acres covered by High Efficiency Irrigation System (HEIS).</li> <li>Avoided 381,377 tons of CO<sub>2</sub> eq. emissions annually. (ex-ante estimate at approval)</li> <li>100% of improved agricultural practices introduced.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	130.0	18%	99.8
104	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P106722?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P106722?lang=en&amp;tab=overview</a>	Integrated Forestry Development (P106722   FY11): increase forest cover to create wind breaks, farmland shelter belts, and conservation schemes, and to train farmers in forest and environmental management.	P106722	China	Both	25	<ul style="list-style-type: none"> <li>132,600 ha of forests restored or reafforested; 93,840 ha of new multifunction plantations and 38,450 ha of improved existing plantations.</li> <li>40% increase in vegetative cover plus improved species diversity in degraded forests rehabilitated.</li> <li>324,000 farmers trained in forest management.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	99.1	50%	99.1
105	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P125021?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P125021?lang=en&amp;tab=overview</a>	Human Forest Restoration and Development (P125021   FY13): increase resilience of forests.	P125021	China	Both	26	<ul style="list-style-type: none"> <li>61,987 ha of ecological forest plantation areas reforested and rehabilitated.</li> <li>145,103 participants from 2,238 villages, including 8,858 forest farmers below the poverty line.</li> <li>85% of participating farmer households considered the project's direct beneficiaries.</li> <li>62,294 beneficiaries trained.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	80.0	69%	80.0
106	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P121289?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P121289?lang=en&amp;tab=overview</a>	Ningxia Desertification Control and Ecological Protection (P121289   FY2): control desertification and land degradation by stabilizing moving sands, re-vegetating degraded steppe lands and planting shelter belts.	P121289	China	Both	30	<ul style="list-style-type: none"> <li>32,351 ha restored or re-afforested.</li> <li>3,326 tons of soil loss caused by wind erosion, avoided every year.</li> </ul> <p><b>Update for actual results at project completion.</b></p>	68.5	70%	68.5

# Agriculture, Land Use, Forests & Ecological Resources

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Year/s Loans Approved)	Project ID	Country	A/M*	Project Life	Results	Target Results -		
								Committed US\$ millions †	IBRD share ‡	Disbursed US\$ millions ‡
107	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P127775?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P127775?lang=en&amp;tab=overview</a>	Guangdong Agricultural Pollution Control (P127775   FY14): promote waste management in livestock and crop production (including methane capture and use) and improve soil nutrient, fertilizer, and pesticide use.	P127775	China	M	25	<ul style="list-style-type: none"> <li>● 43,836 tons of annual pollution load (COD) to waterways reduced.</li> <li>● 5,031 tons of annual nutrient load to waterways reduced.</li> <li>● 45,192 ha with improved soil nutrient, fertilizer and pesticide use.</li> <li>● 397 metric tons of total pesticide consumption reduced annually.</li> <li>● 134,420 clients adopting an improved agricultural technology.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	77.5	50%	77.5
108	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P125496?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P125496?lang=en&amp;tab=overview</a>	Integrated Modern Agriculture Development (P125496   FY14): develop sustainable and climate resilient agricultural production systems by investing in improved irrigation and drainage systems and practices that address climate risk.	P125496	China	A	25	<ul style="list-style-type: none"> <li>● 73.3% of high-standard farmland where at least two new sustainable or climate resilient practices/technologies promoted by the project have been adopted.</li> <li>● Increase in water productivity for rice, wheat and maize produced in target regions.</li> <li>● Increase in land productivity for maize, wheat and rice crops.</li> <li>● Overall increase in irrigation water use efficiency.</li> <li>● 102,497 ha provided with new/improved irrigation and drainage services.</li> <li>● 2,855 km of farm roads constructed and rehabilitated.</li> <li>● 53,443 ha of leveled land and improved soil conditions.</li> <li>● 87,346 ha adopting balance fertilizations (include crop residues returned and organic fertilizers)</li> <li>● 98,186 ha under Integrated Pest Management/Green/non polluted production.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	200.0	64%	200.0
109	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P123760?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P123760?lang=en&amp;tab=overview</a>	Forests and Climate Change (P123760   FY12): support rural communities' sustainable management of forests, and generate additional income from forest products and services and to reduce emissions from deforestation and forest degradation.	P123760	Mexico	Both	13	<ul style="list-style-type: none"> <li>● 92% increase in areas under improved forest management (equivalent to 3,035,984 additional ha).</li> <li>● Support 2 pilot areas to reduce carbon emissions from deforestation and forest degradation.</li> <li>● 2,622 communities applied for sustainable management and conservation schemes (not cumulative but reflecting yearly results and this figure reflects what has been achieved at project's completion).</li> <li>● 265,832 project beneficiaries.</li> <li>● 562,000 tons of CO<sub>2</sub>e per year of average reduction from deforestation and forest degradation.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	291.8	45%	287.1 (g)
110	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P131013?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P131013?lang=en&amp;tab=overview</a>	Peru National Agriculture Innovation Program (P131013   FY14): strengthen the national agricultural innovation system and integrate climate change criteria into project such as adaptive research, seed improvements and skills development, among others.	P131013	Peru	A	10	<ul style="list-style-type: none"> <li>● 31,634 farmers adopting new technologies.</li> <li>● 111 new technologies emerging from research demonstrated in farmers' fields.</li> <li>● 745,212 potential farmers beneficiaries of the technological innovations made available through the strategic research sub-projects.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	12.6	39%	12.6
111	<a href="https://projects.worldbank.org/en/projects-operations/project-detail/P119140?lang=en&amp;tab=overview">https://projects.worldbank.org/en/projects-operations/project-detail/P119140?lang=en&amp;tab=overview</a>	Fourth Northwest Mountainous and Forested Areas Development (P119140   FY11): better protect and manage natural resources through conservation of soil and water resulting from improved agriculture and pasture practices and to improve access to potable water for rural communities.	P119140	Tunisia	A	21	<ul style="list-style-type: none"> <li>● Reduce erosion and forest degradation: 10,517 ha of erosion-sensitive land protected with soil and water conservation works and infrastructure.</li> <li>● Build climate change awareness and disseminate climate-appropriate practices to reinforce livelihood and agro-system resilience: 39,500 ha of additional land under sustainable land and water management (at farm level), 12,927 ha of pasture upgraded and sustainably managed and 15,994 ha of trees planted.</li> <li>● 371 water points constructed and rehabilitated benefitting more than 2,000 households.</li> <li>● 181 km of newly constructed feeder roads and 915 km of rehabilitated roads.</li> <li>● 318,000 people benefit.</li> </ul> <p><b>Updated for actual results at project completion.</b></p>	27.5	73%	27.5
<b>Total Allocated for Agriculture, Land Use, Forests, &amp; Ecological Resources</b>								<b>2,998</b>		<b>1,644.1</b>
<b>Cumulative Loan Repayments</b>										<b>(104.4)</b>
<b>Total Allocated and Outstanding for Agriculture, Land Use, Forests and Ecological Resources</b>										<b>1,539.7</b>

Notes:

Amounts may not add up due to rounding.

\* A Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.

† Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.

‡ Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.

For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.

§ The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

¶ The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.

|| The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).

Ⓙ Differences between allocated and committed amounts are due to redenomination of the loan in MXN in FY21.

Ⓚ The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.

## Resilient Infrastructure, Built Environment, and Other

- Project Active in FY22
- Project Closed in FY22
- Project Closed before FY22

#	Link to More Information	Project Name and Description (Number   Years   Loans Approved)	Project ID	Country	A/M*	Project Life	Target Results *			
							Committed US\$ millions *	IBRD share *	Disbursed US\$ millions *	
112	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P129791?lang=en">https://projects.worldbank.org/en/project-operations/project-detail/P129791?lang=en</a>	Fujian Fishing Ports Project (P129791   FY14): reduce the vulnerability of fishing communities to extreme weather events.	P129791	China	A	27	<ul style="list-style-type: none"> <li>11,000 fishermen and their families (total 64,000 people) benefit.</li> <li>3,000 fishing vessels protected in ports.</li> <li>Improved effectiveness of early warning and emergency systems.</li> </ul>	39.0	58%	17.0
113	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P172548?lang=en">https://projects.worldbank.org/en/project-operations/project-detail/P172548?lang=en</a>	Greater Cairo Air Pollution Management and Climate Change Project (P172548   FY21): reduce air and climate emissions from critical sectors and increase resilience to air pollution in Greater Cairo.	P172548	Egypt	M	30	<ul style="list-style-type: none"> <li>30% reduction in GHG emissions (CO2eq.) from municipal solid waste and 23% reduction from public buses.</li> <li>451,000 tCO2e reduced annually.</li> <li>20% reduction of large-scale solid waste fires per annum.</li> <li>One municipal solid waste dump sites closed and rehabilitated.</li> <li>15 million people benefiting from improved air quality.</li> </ul>	170.0	100%	13.2
114	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P169403">https://projects.worldbank.org/en/project-operations/project-detail/P169403</a>	Central Sulawesi Rehabilitation and Reconstruction Project (P169403   FY19): reconstruct and strengthen public facilities and safer housing in selected disaster-affected areas.	P169403	Indonesia	A	20	<ul style="list-style-type: none"> <li>7,000 housing units constructed to project's resilience standards to relocate disaster-displaced households.</li> <li>200 schools and 33 health clinics rehabilitated or reconstructed to project's resilience standards.</li> <li>90% of targeted people having safer housing completed and occupied.</li> <li>90% reconstructed houses provided with housing connection for water supply.</li> <li>90% reconstructed houses provided with sanitation system.</li> <li>Resilient and inclusive building standards are established for the project.</li> </ul>	75.0	100%	11.3
115	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P146865?lang=en">https://projects.worldbank.org/en/project-operations/project-detail/P146865?lang=en</a>	Disaster Vulnerability Reduction (P146865   FY16): enhance the country's resilience to disaster and climate risk.	P146865	Jamaica	A	29	<ul style="list-style-type: none"> <li>Protection of infrastructure (e.g., bridges, storm drains, roads) from floods directly benefitting about 247,000 people.</li> <li>Increase the government's capacity to better prepare for and respond to natural disasters.</li> <li>Reduced to 0 the number of days of interrupted traffic due to flooding.</li> <li>8,350 storm drains retrofitted/constructed and 140 bridges retrofitted.</li> <li>313,000 direct project beneficiaries.</li> </ul>	30.0	100%	23.2
116	<a href="https://projects.worldbank.org/en/project-operations/document-detail/P168500">https://projects.worldbank.org/en/project-operations/document-detail/P168500</a>	Disaster Risk Management Development Policy Loan with a Catastrophe Deferred Drawdown Option (P168500   FY20): strengthen the country's institutional capacity and institutional framework to deal with the adverse financial impacts and risk managements of disasters and climate-related shocks.	P168500	Morocco	A	28	<ul style="list-style-type: none"> <li>90% of local officials of the Ministry of interior responsible for the administration of the register trained on the registration procedures.</li> <li>The Government has deployed an online platform for the registration of people affected by a catastrophic event.</li> <li>The Government has developed a specific outreach and communication mechanism to inform the population of the registration procedures for people affected by a catastrophic event, with a specific focus on women.</li> <li>4 provinces covered by an integrated flood risk management information system.</li> </ul>	261.9	100%	261.9
117	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P127676?lang=en&amp;tab=overview">https://projects.worldbank.org/en/project-operations/project-detail/P127676?lang=en&amp;tab=overview</a>	Hydrometeorological Services Modernization (P127676   FY14): enhance capacity to deliver reliable and timely weather, hydrological and climate information.	P127676	Russian Federation	A	18	<ul style="list-style-type: none"> <li>70% accuracy of forecasts for the main administrative centers of Russia.</li> <li>85-90% accuracy of seasonal river flow forecasts in Volga river basin reservoirs.</li> <li>Increased number of sectoral data users data.</li> </ul>	60.0	43%	57.2
118	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P130972">https://projects.worldbank.org/en/project-operations/project-detail/P130972</a>	Road Climate Resilience Project (P130972   FY14): rehabilitate and improve the climate resilience of a road corridor.	P130972	Timor-Leste	A	28	<ul style="list-style-type: none"> <li>Improved drainage conditions along 110 km road corridor.</li> <li>30% reduction in major road damage events.</li> </ul>	15.0	16%	15.0
119	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P168862">https://projects.worldbank.org/en/project-operations/project-detail/P168862</a>	Sava and Drina Rivers Corridors Integrated Development Program (P168862   FY21): improve flood protection and enhance transboundary water cooperation in the Sava and Drina Rivers Corridors.	P168862	Western Balkans	A	40	<ul style="list-style-type: none"> <li>200,000 people protected from 1 in 100-year flood event in the Sava and Drina River Basins.</li> <li>150,000 ha protected by flood risk mitigation measures.</li> <li>River basin management plan reflecting integrated measures updated and endorsed by countries.</li> <li>8,201 tCO2eq. reduced annually over the span of 2024-50.</li> </ul>	110.2	88%	13.2
120	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P127338?lang=en&amp;tab=overview">https://projects.worldbank.org/en/project-operations/project-detail/P127338?lang=en&amp;tab=overview</a>	Climate Resilient Infrastructure (P127338   FY15): enhance the resilience of road infrastructure against flood risks and the impacts of climate change, and improve the capacity to respond to an eligible emergency.	P127338	Belize	A	25	<ul style="list-style-type: none"> <li>176,535 people directly benefiting from the project (including from the emergency component to respond to COVID-19 pandemic and the 2019 drought).</li> <li>25 years of return period for which the roads are designed to withstand a flood event.</li> <li>33 localized hazard maps and related data layers generated and shared.</li> <li>Operational testing lab to assess infrastructure condition and performance established.</li> </ul> <p>Updated for actual results at project completion.</p>	29.4	100%	29.4
121	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P160628">https://projects.worldbank.org/en/project-operations/project-detail/P160628</a>	Disaster Risk Management Development Policy Financing with Cat DDO (P160628   FY19): strengthen the institutional and legal framework to ensure risk-informed sectoral and territorial planning and increase the financial capacity to manage impacts associated with disaster and climate-related shocks.	P160628	Cabo Verde	A	28	<ul style="list-style-type: none"> <li>56% of Integrated Touristic Areas have Tourist Development Plans that incorporate disaster and climate-related risk management considerations.</li> <li>Allocation to the National Emergency Fund included annually in national budget (for 2019, 2020, 2021 and 2022 budget).</li> <li>All 22 new municipal plans incorporate climate-related risk management considerations.</li> </ul> <p>Project closed. Achieved results will be provided when the ICR is released.</p>	5.0	50%	5.0
122	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P098078?lang=en&amp;tab=overview">https://projects.worldbank.org/en/project-operations/project-detail/P098078?lang=en&amp;tab=overview</a>	Huai River Basin Flood Management and Drainage Improvement (P098078   FY11): increase resilience of communities to the impacts of climate change, particularly flooding.	P098078	China	A	25	<ul style="list-style-type: none"> <li>9,682 km<sup>2</sup> of flood protection (in rural and urban areas).</li> <li>7,430,000 people benefited.</li> <li>RMB 798 million of reduced economic losses (in rural and urban areas).</li> <li>441 km of dike strengthened.</li> <li>1,023 km of river improvements.</li> </ul> <p>Updated for actual results at project completion.</p>	200.0	33%	200.0
123	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P161642?lang=en">https://projects.worldbank.org/en/project-operations/project-detail/P161642?lang=en</a>	Second Sustainable Development and Green Growth DPL (P161642   FY18): support green growth in transport, energy, environmental health and natural resources to improve environmental quality through reducing PM 2.5 in the air, strengthening regulations for sanitation, increasing capacity to reuse and disposing solid waste.	P161642	Colombia	M	24	<ul style="list-style-type: none"> <li>31% of passenger journeys done in public and non-motorized transport in 8 cities (Barranquilla, Bucaramanga, Medellín, Bogotá-Soacha, Cali, Cartagena, Pasto, and Montería).</li> <li>24.4% reduction in the mean annual concentration of PM 2.5 in 7 monitoring stations in the cities of Medellín, Itagüí, and Bogotá (48% achieved).</li> <li>19,837 people benefitting from non-conventional energy projects commissioned in areas not covered by the national interconnected system (25% achieved).</li> <li>8,526,403 people provided with access to improved water sources (only in rural areas).</li> </ul> <p>Updated for actual results at project completion.</p>	500.0	100%	500.0

## Resilient Infrastructure, Built Environment, and Other

- Project Active in FY22
- ◐ Project Closed in FY22
- Project Closed before FY22

							Target Results *			
#	Link to More Information	Project Name and Description (Number   Year(s) Loans Approved)	Project ID	Country	A/M*	Project Life	Results *	Committed US\$ millions †	IBRD share †	Disbursed US\$ millions †
124	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P159351">https://projects.worldbank.org/en/project-operations/project-detail/P159351</a>	DRM Development Policy Loan with a Cat DDO (P159351   FY18) support the Government of the Dominican Republic in strengthening institutions for improved climate and disaster resilience in priority sectors; and establishing mandatory regulations for climate and disaster risk reduction in public investment and construction works.	P159351	Dominican Republic	A	31	<ul style="list-style-type: none"> <li>• 16.15% of public schools assessed for disaster risk (of 6,500 of total schools)</li> <li>• 12% of public schools assessed for disaster risk and requiring an intervention are rehabilitated and/or retrofitted.</li> <li>• 23 out of the 140 identified risk-prone areas in main watershed basins have been prioritized, by hydrological and hydrometeorological studies, to undergo improvements in water management.</li> <li>• 22 out of 164 health facilities have been given an operating permit following the approval of technical regulations assessed using the Hospital Safety Index.</li> <li>• 100% construction works with a building permit have been supervised and inspected following updated regulations.</li> </ul> <b>Updated for actual results at project completion.</b>	150.0	100%	150.0
125	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P110910?tag=en&amp;tab=overview">https://projects.worldbank.org/en/project-operations/project-detail/P110910?tag=en&amp;tab=overview</a>	South East Europe and Caucasus Catastrophe Risk Insurance Facility (P110910   FY11): increase access to catastrophe risk insurance through facilitating the growth of insurance markets.	P110910	North Macedonia & Serbia	A	22	<ul style="list-style-type: none"> <li>• Increased catastrophe insurance coverage from 2% to 10% for homeowners, farmers, enterprises, and government entities holding catastrophe insurance policies.</li> <li>• 6-7 different types of highly affordable catastrophic insurance products provided by local insurance companies to homeowners, farmers and local governments.</li> </ul> <b>Updated for actual results at project completion.</b>	10.0	100%	10.0
126	<a href="https://projects.worldbank.org/en/project-operations/project-detail/P110849?tag=en&amp;tab=overview">https://projects.worldbank.org/en/project-operations/project-detail/P110849?tag=en&amp;tab=overview</a>	Climate Change Development Policy Loan (P110849   FY08): mainstream climate change considerations into public policy. <i>This project was fully repaid and has been removed from the current Green Bond portfolio.</i>	P110849	Mexico	Both	10	<ul style="list-style-type: none"> <li>• 642,000 ha reforested.</li> <li>• 6,000,000 tons of CO<sub>2</sub>e, emissions reduced annually due to reforestation.</li> <li>• Domestic carbon pricing strategy developed.</li> <li>• 10 cities and 5 states climate action plans developed.</li> </ul> <b>Updated for actual results at project completion.</b>	-	-	-
<b>Total Allocated for Resilient Infrastructure, Built Environment, and Other</b>								<b>1,655.4</b>		<b>1,306.4</b>
<b>Cumulative Loan Repayments</b>										<b>(71.2)</b>
<b>Total Allocated and Outstanding for Resilient Infrastructure, Built Environment and Other</b>										<b>1,235.2</b>

**Notes:**

Amounts may not add up due to rounding.

- /a* Column indicates whether the project aims to mitigate climate change ("M"), help client countries adapt to the effects of climate change ("A"), or both.
- /b* Target results are expected impacts based on estimates developed at the time of project approval and materializing at the end of the project implementation period (5 years in most cases). The indicators shown are normally a subset of the development impacts contained in project documentation available in the World Bank project website (<http://www.worldbank.org/projects>). Results reported are based on the entire project, with the percent shown next to the loan amount corresponding to the proportion of the total financing that is financed by World Bank loans. Actual impacts may be different from these estimates and do not represent the actual results in a specific year. Quantitative estimates are intended to be indicative of the scale of impacts and qualitative results aim to inform about the nature of changes that will be achieved as a result of projects included in the Green Bond program once they are completed and at full capacity.
- /c* Projects closed are updated for actual results achieved at completion only when the Implementation Completion Report (ICR) becomes available.
- /d* For the FY22 reporting period we consider the ICRs available as of January 2023. When the ICR is not available, closed projects show target results until availability of the completion report.
- /e* The committed amount is the Green Bond eligible portion of the World Bank loan net of cancellations reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).
- /f* The percentage shows the share of the total financing that is provided by World Bank loans. When a project is co-financed, this share could be used to apportion total results to the World Bank. The share is based on IBRD commitment at the time of approval and it is held constant throughout the project life except if there is an additional financing. Starting with the FY21 report we began updating the IBRD share for closed projects with ICR available based on the actual disbursed amounts.
- /g* The disbursed amount is the amount of Green Bond proceeds allocated to support the financing of disbursements to the project reported in equivalent US\$ millions. Loans denominated in other currencies are converted to US\$ equivalents using the spot exchange rate on the report date (June 30, 2022).
- /h* The SDG mapping noted in the table show percentages of SDG frequencies per goal for each project active and closed in FY22 based on the methodology developed in collaboration with the Stockholm Environment Institute to map World Bank projects to the SDGs. Frequencies refer to the number of times the keywords for each SDG produce a match to a project: the higher the number of frequencies, the higher the number of times the keywords appear in the text, indicating which SDG is more dominant in the analyzed project.

\* Indicates that Additional Financing was added in FY22 to the project. This addition potentially affects project-related financial (committed amount, disbursed amount and IBRD share) and non-financial (project description) information in the tables.  
 - The project Climate Change Development Policy Loan (P110849) was fully repaid and, therefore, removed from the commitments and allocations of the current Green Bond portfolio.



## List of Abbreviations

AFR	Africa
BOD	Biological oxygen demand
BRT	Bus Rapid Transit
BWP	Botswana Pula
CAPEX	Capital Expenditures
CCT	Conditional Cash Transfer
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> eq.	Carbon dioxide equivalent
COD	Chemical oxygen demand
COP	Colombian peso
CST	Central Sales Tax
DBT	Direct Benefit Transfer
EAP	East Asia & Pacific
ECA	Europe & Central Asia
ECCE	Early Childhood Care and Education
ECD	Early Childhood Development
e-PMS	Electronic project management system
FDI	Foreign direct investment
GBV	Gender-based Violence
GDP	Gross domestic product
GEL	Georgian Lari
GHG	Greenhouse gas
GP	General Practitioner
GWh	Gigawatt-hour
ha	Hectare
HEIS	High Efficiency Irrigation System
hr	Hour
ICU	Intensive Care Unit
IDHs	Infectious Disease Hospitals
IDR	Indonesian Rupiah
INR	Indian Rupee
J\$	Jamaican dollar
Kg	Kilogram
Km	Kilometer
Km <sup>2</sup>	Square kilometer
kV	Kilovolt
kVA	Kilovolt ampere
kWh	Kilowatt-hour
L	Liter
LCR	Latin America & Caribbean
LLC	Limited Liability Company

m

Meter

MAD	Moroccan dirham
M&E	Monitoring and evaluation
m <sup>2</sup>	Square meter
m <sup>3</sup>	Cubic meter
MJ	Megajoules
MNA	Middle East & North Africa
MolLHSA	Ministry of Internally Displaced Persons from the Occupied Territories, Labor, Health and Social Affairs
MSME	Micro, small and medium enterprises
MSE	Micro- and Small Enterprises
MVA	Megavolt ampere
MW	Megawatt
MWh	Megawatt-hour
NCD	Non-communicable disease
NDC	Nationally Determined Contribution
NO <sub>x</sub>	Nitrogen dioxide
OHLs	Overhead Lines
O&M	Operation and Maintenance
PA	Protected Area
PCR	Polymerase Chain Reaction
PFI	Participating Financial Institution
PHC	Primary health care
PKR	Pakistani Rupee
PM	Particulate matter
PPE	Personal Protective Equipment
PPPs	Public Private Partnerships
R\$	Brazilian real
RMB	Chinese renminbi
SAR	South Asia
SARI	Severe acute respiratory infection
SME	Small and medium sized enterprises
SO <sub>2</sub>	Sulfur dioxide
SOE	State-owned Enterprise
SWM	Solid Waste Management
TB	Tuberculosis
tce	ton of coal equivalent
tCO <sub>2</sub> eq.	Tons of carbon dioxide equivalent
TND	Tunisian dinar
TSP	Total suspended particles
TSS	Total Suspended Solids
ULB	Urban Local Body
VAT	Value-added tax

WHO World Health Organization  
WSS Water Supply System / Water Supply and Sanitation