Green Bonds
GREEN BONDS | PROGRAM SUMMARY

Cumulative & Fiscal Year Results

SDG 7

CUMULATIVE RESULTS

51,462 GWh
in annual energy savings

7,316 GWh
in annual energy produced from renewable resources

2,342 MW
in renewable capacity from solar, wind, and hydro technologies

Total Electricity consumed in Greece in 2018**

7.9 Million Cars off the road for one year*

876,000 Homes’ electricity use for one year*

202 Million Smartphones charged*

FY20 RESULTS

560,000 People provided with access to cleaner energy sources in schools/educational establishments

206,800 Additional Passenger Trips per day + Travel time on public transport reduced by 23 minutes

52,000 People benefiting from reduced travel time and greater access to the city center + 100 new bus stops constructed

16 The project impact highlights of this report include selected results from projects included in the Green Bond project portfolio that are completed and have a Implementation Completion Report available. The results are aggregated where possible and do not represent all countries or regions where the World Bank supports the financing of projects. Project impact highlights should not be considered a comprehensive accounting of results and may represent results for one or a small number of projects. Additional project results are presented in the Project-by-Project section of the report and the full set of project results can be found at http://projects.worldbank.org.

17 The figure reflects the historic number of projects in the World Bank Green Bond project portfolio since 2008 including project P110849 that has been fully repaid. While project P110849 has been removed from the current green bond program and is no longer included in current commitments and allocations, the project remains included in historic commitments and cumulative impact highlights of the Green Bond project portfolio.
SDG 15

884,932 Hectares of forests restored or reforested

11.5 Million Tons of CO₂ emissions reduced annually due to sustainable forest management practices/activities

CUMULATIVE RESULTS

1.2 Million Soccer Fields equivalent to

2.3 Million Cars off the road for one year*

SDG 6

764,000 Residents benefitting from secured water supply

1.2 Million Hectares with new, rehabilitated or restored irrigation services

CUMULATIVE RESULTS

FY20 RESULTS

8.5 Million People provided with access to improved water sources


** Source: US Energy Information Administration.
$14.4 Billion
in bonds issued\(^{18}\) since 2008 with

164 Green Bonds
across

22 Currencies
including

$1.0 Billion
eq. in bonds
issued in FY20 in

7 Currencies

\(^{18}\) Approximately US$6.5 billion in World Bank Green Bonds were outstanding as of June 30, 2020. An amount equal to the net proceeds of the issue of the Notes is credited to a special account that supports IBRD’s lending for Eligible Projects. So long as the Notes remain outstanding and the special account has a positive balance, periodically and at least at the end of every fiscal quarter, funds are deducted from the special account and added to IBRD’s lending pool in an amount equal to all disbursements from that pool made during such quarter in respect of Eligible Projects.
Historic Commitments & Allocations

$17.6 Billion has been committed across 32 Countries.

$11.7 Billion has been committed net of repayments through FY20 across 111 Projects since 2008, accounting for

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19 This figure represents the historic amount committed to projects part of the World Bank Green Bond project portfolio since 2008, including the project P110849, which was fully repaid.
## Current Commitments & Allocations

### By Sector:

<table>
<thead>
<tr>
<th>Sector</th>
<th>Mitigation</th>
<th>Adaptation</th>
<th>Total US$eq. billion</th>
<th>Allocated &amp; Outstanding US$eq. billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable Energy &amp; Energy Efficiency</td>
<td>6.1</td>
<td>0.1</td>
<td>6.2</td>
<td>4.6</td>
</tr>
<tr>
<td>Clean Transportation</td>
<td>4.4</td>
<td>0.2</td>
<td>4.6</td>
<td>3.5</td>
</tr>
<tr>
<td>Water &amp; Wastewater</td>
<td>0.3</td>
<td>1.5</td>
<td>1.8</td>
<td>0.8</td>
</tr>
<tr>
<td>Solid Waste Management</td>
<td>0.1</td>
<td>0.0</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Biodiversity</td>
<td>0.1</td>
<td>0.5</td>
<td>0.6</td>
<td>0.5</td>
</tr>
<tr>
<td>Agriculture, Land Use, Forests &amp; Ecological Resources</td>
<td>0.6</td>
<td>1.9</td>
<td>2.5</td>
<td>1.1</td>
</tr>
<tr>
<td>Resilient Infrastructure, Built Environment &amp; Other</td>
<td>0.5</td>
<td>0.8</td>
<td>1.3</td>
<td>1.2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12.2</strong></td>
<td><strong>4.9</strong></td>
<td><strong>17.1</strong></td>
<td><strong>11.7</strong></td>
</tr>
<tr>
<td><strong>Percentage</strong></td>
<td><strong>71%</strong></td>
<td><strong>29%</strong></td>
<td><strong>100%</strong></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Amounts may not add up due to rounding.

/a Aggregate committed amount net of cancellations for eligible projects for which the loans are disbursing.

/b Total green bond proceeds allocated to support financing of disbursements to eligible projects net of loan repayments. Not adjusted for matured bonds that were not replaced with new green bonds.
By Region:

<table>
<thead>
<tr>
<th>Region</th>
<th>Committed(^a)</th>
<th>Allocated &amp; Outstanding(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa (AFR)</td>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>East Asia &amp; Pacific (EAP)</td>
<td>5.7</td>
<td>4.0</td>
</tr>
<tr>
<td>Europe &amp; Central Asia (ECA)</td>
<td>2.4</td>
<td>1.7</td>
</tr>
<tr>
<td>Latin America &amp; Caribbean (LAC)</td>
<td>3.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Middle East &amp; North &amp; Africa (MNA)</td>
<td>1.1</td>
<td>0.8</td>
</tr>
<tr>
<td>South Asia (SAR)</td>
<td>3.9</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17.1</strong></td>
<td><strong>11.7</strong></td>
</tr>
</tbody>
</table>

\(^a\) These figures represent the commitments and allocations of the current Green Bond project portfolio. Project P10849, has been fully repaid and was therefore removed from current commitments and allocations figures and the current Green Bond portfolio.
Featured Project

15 Million People benefiting from sustainable groundwater resources

200,000 Hectares with reduction in water consumption

7 States with improved groundwater monitoring and data disclosure
Improving National Groundwater Management in India

Water security is key for India’s economic growth and poverty reduction. India has 18 percent of the world’s population, but only 4 percent of global renewable water resources within its territory and water scarcity in India is already classified as ‘high’. The country has extensive groundwater resources, estimated at 30-40 percent of its annual usable renewable water resources. Yet, they are under threat from overexploitation, pollution and climate change. Intensive and unregulated groundwater pumping in many areas has caused rapid and widespread groundwater decline; pollution is degrading ground water quality; and climate change will exacerbate current pressures on groundwater resources with users increasingly turning to groundwater as surface water supplies become unreliable.

The National Groundwater Management Improvement Project aims to enhance the Government of India’s management of groundwater resources by: incentivizing states to apply improved planning and implementation of investments and groundwater management actions to arrest the decline of groundwater levels and strengthen groundwater institutions at all levels; and demand-side measures and improved groundwater data availability, sharing, and use.

- **Project #:** P158119
- **IBRD Commitment:** US$ 450 million
- **Total Project Cost:** US$ 1 billion
- **Approval Date:** June 5, 2018
- **Project Status:** Active (closing September 28, 2025)
50,764 Hectares with new or improved irrigation or drainage services

17,312 Users provided with improved irrigation services

15% Increase in irrigation efficiency

Featured Project
Irrigation Modernization in Turkey

Turkey has 28 million hectares of arable land, and while the agricultural sector accounts for about two-thirds of the country’s water use, its overall contribution to GDP has steadily declined from 18 percent in 1990 to 8 percent in 2014. Despite large investments in irrigation expansion, Turkey has yet to reach its full efficiency and agricultural productivity potential.

Most irrigation schemes are based on open channels, where water losses from leakage and evaporation are high. Significant water loss occurs also at the field-level, since almost 90 percent of the irrigation area in Turkey has widespread use of inefficient surface irrigation methods. Poor on-farm water management practices, land fragmentation, and inefficient crop patterns are some of the constraints in translating irrigation provision into higher agricultural productivity and farmer incomes. Moreover, almost 59 percent of the agriculture land in Turkey is affected by degradation caused by unsuitable agriculture practices and inappropriate irrigation. Since agriculture consumes the most water in Turkey, improving irrigation efficiency and productivity will contribute directly to enhancing resilience and resource sustainability in this very important sector.

The Turkey Irrigation Modernization Project will focus on rehabilitating and modernizing the older, deteriorated, and under-performing irrigation schemes responsible for reduced the quantity and quality of irrigation delivery. The modernization investments and associated services will not only lift the incomes of the farmers engaged in low-value agriculture, but also contribute to general economic growth in these areas.

- Project #: P158418
- IBRD Commitment: US$ 252 million
- Total Project Cost: US$ 254 million
- Approval Date: January 22, 2019
- Project Status: Active (closing February 27, 2026)
Strengthening Disaster Risk Management Policies in the Dominican Republic

Geological and climate-related disasters pose major challenges for the sustainable growth and resilient development of the Dominican Republic. Unplanned urban growth, land degradation, and weak enforcement of building codes and zoning regulations has exacerbated the country’s vulnerability to hydrometeorological and geophysical hazards. Climate change is likely to increase the frequency and severity of these threats in the country, reinforcing the need to actively strengthen climate and disaster risk management policies to ensure a sustainable development.

The project supported the Dominican Republic in developing a holistic approach to disaster risk management by strengthening the responsible institutions and the regulatory framework needed for improving climate and disaster resilience. Reforms have resulted in public investment projects that adhere to resilience-building technical standards; updated technical regulations for new construction works and compulsory building permits; and the inclusion of hazard- and climate-related contingent liabilities in the national medium-term debt strategy.

- **Project #:** P159351
- **IBRD Commitment:** US$ 150 million
- **Total Project Cost:** US$ 150 million
- **Approval Date:** September 28, 2017
- **Project Status:** Closed (February 28, 2021)
Featured Project

<table>
<thead>
<tr>
<th>Featured Project</th>
<th>Green Bonds</th>
<th>Dominican Republic</th>
</tr>
</thead>
<tbody>
<tr>
<td>975 Public Schools assessed for disaster risk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>292 Public Schools assessed for disaster risk and requiring an intervention are rehabilitated and/or retrofitted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 Identified Risk-Prone Areas with improvements in water management</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

/Notes: The projects featured here are for illustrative purposes only. No assurance can be provided that disbursements for projects with these or similar characteristics will be made by the World Bank in the future. The net proceeds from the sale of any World Bank bonds are not committed or earmarked for the lending to, or financing of, any particular projects, programs or activities. Returns on World Bank bonds are not linked to the performance of any particular projects, programs or activities.
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