

Electrification for sustainable development

CAF finances renewable energy generation projects to **improve rural and urban electrification and ensure the environmental sustainability** of Latin America and the Caribbean (LAC).



OVER THE PAST 10 YEARS...

\$347 million
dollars
in renewable energy
generation projects

6 countries
beneficiary
Argentina, Brazil, Chile,
Ecuador, Peru, and Uruguay

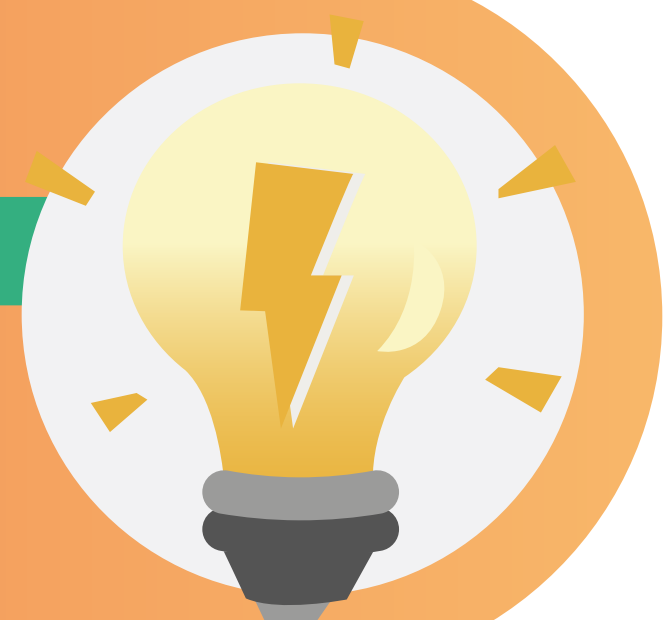
Construction, commissioning, and maintenance of:

6 wind farms

26 solar plants

2 hydroelectric power plants

2,850 GWh
of electric power per year
that would allow to supply
 +1 million households



CAF projects help reduce greenhouse gas emissions (GHG) and contribute to achieving mitigation goals in LAC established within the framework of countries' Nationally Determined Contributions (NDCs).

Environmental impacts (ex post calculations for CAF projects 2014-2022)



↓ 4 million
metric tons
of **CO₂ equivalent** → **\$170 - \$940**
million dollars in benefits

Expected
impacts of
electrification
(based on evidence)

on employment, production, health and education

↑ 17-47%
employment

↑ 20-70%
income

↑ 14%
production

↓ 39-65%
respiratory
diseases in
children

↓ 25%
illiteracy

↑ 11%
children's
study time

Other impacts

- ↑ human development
- ↓ poverty
- ↓ other diseases
(eye, cardiovascular,
diarrheal)
- ↓ infant and maternal
mortality
- ↑ school enrollment
- ↑ school retention

ECUADOR



\$22 million dollars

1 project:

› **Hydroelectric Plant DUE Hidroalto**

Contribution to installed hydroelectric capacity: **0.95%**

Energy production: **348 GWh per year**

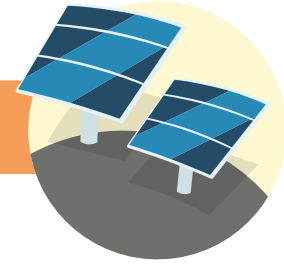
Potential for supply of net energy generated: **205 thousand households**

GHG emissions reduced annually (2022):

52 thousand tCO₂eq

↳ **1.2%** of the total emissions from electricity generation in the country

BRAZIL



\$1.7 billion dollars

1 project:

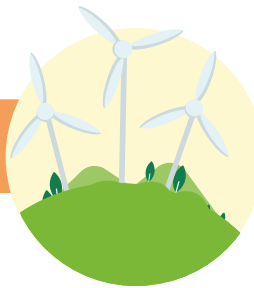
› **Chico Mendes solar park**

Energy production: **0.73 GWh per year**

Energy supply to the Municipality of São Caetano do Sul (Development and Environmental Sanitation Program)

GHG emission that would be reduced annually: **270 tCO₂eq**

PERU



\$90 million dollars

4 projects:

› **The Marcona, Tres Hermanas, and Huambos and Dunas wind farms**

› **La Virgen hydroelectric plant**

Contribution to installed wind power: **40.6%**

Contribution to installed hydroelectric capacity: **1.5%**

Energy production: **1,119 GWh per year**

Potential for supply of net energy generated: **373 thousand households**

GHG emissions reduced annually (2022):

486 thousand tCO₂eq

↳ **5.6%** of the total emissions from electricity generation in the country

URUGUAY



\$58 million dollars

1 project:

› **Artilleros Rouar wind farm**

Contribution to installed wind power: **4.3%**

Energy production: **257 GWh per year**

Potential for supply of net energy generated: **93 thousand households**

GHG emissions reduced annually (2022):

26 thousand tCO₂eq

↳ **1.9%** of the total emissions from electricity generation in the country.

CHILE



\$109 million dollars

2 projects:

› **Atacama photovoltaic solar park**

› **oEnergy PMGD Solar project**

Contribution to installed solar capacity: **3.9%**

Energy production: **630.7 GWh per year**

Potential for supply of net energy generated: **289 thousand households**

GHG emissions reduced annually (2022):

190 thousand tCO₂eq

↳ **0.7%** of the total emissions from electricity generation in the country

ARGENTINA



\$60 million dollars

2 projects:

› **Cafayate solar park**

› **Villalonga and Chubut del Norte wind farms**

Contribution to installed solar capacity: **7.4%**

Contribution to installed wind power: **2.4%**

Energy production: **649 GWh per year**

Potential for supply of net energy generated: **217 thousand households**

GHG emissions reduced annually (2022):

277 thousand tCO₂eq

↳ **0.7%** of the total emissions from electricity generation in the country

***tCO₂eq: metric tons of CO₂ equivalent**