

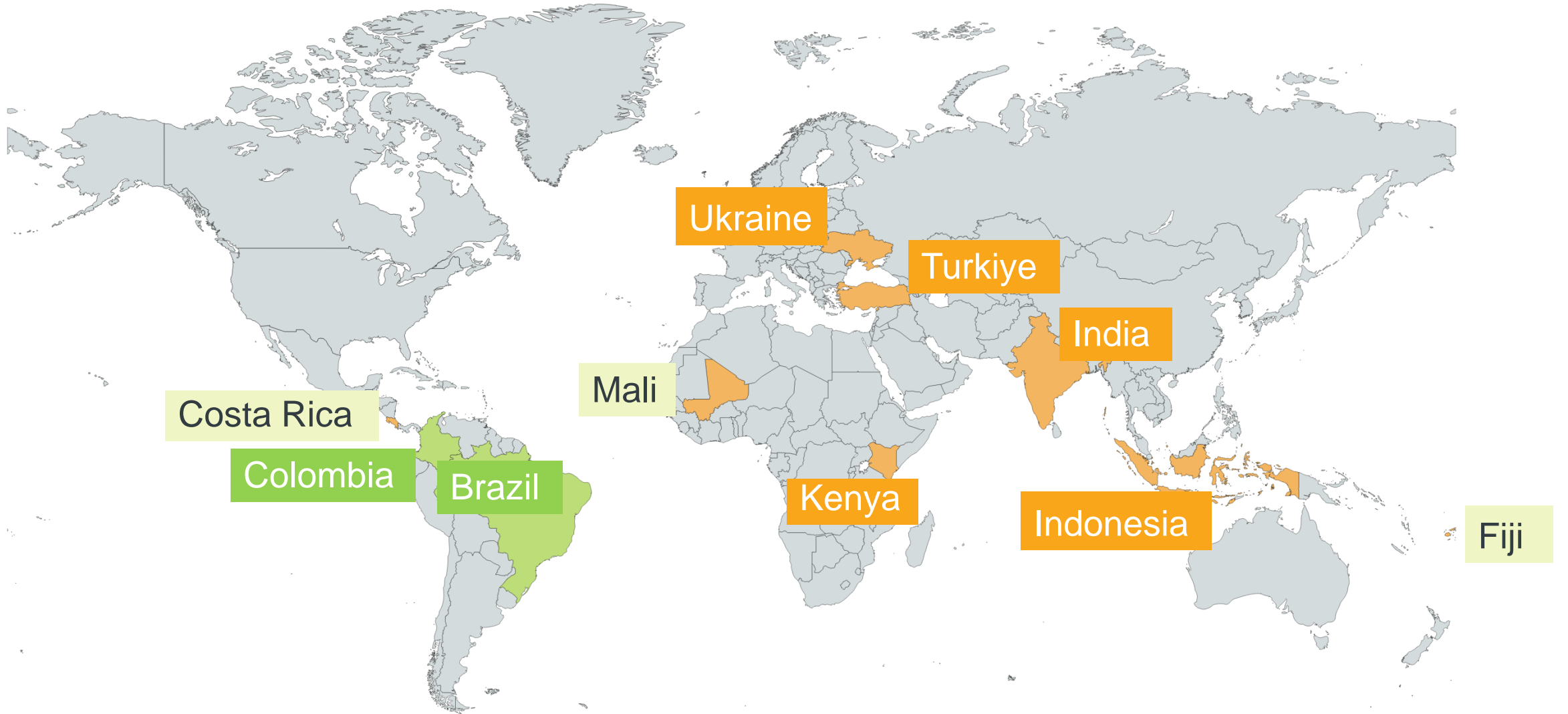


# Renewable Energy Integration Program Semi-annual Update

*November 2023*

# REI Countries

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# Status of REI Investment Plans

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Country	Projected Submission	MDBs
<b>Colombia</b>	February 2023	<b>IDB, IBRD, IFC</b>
Fiji	October 2023	<b>ADB, IBRD, IFC</b>
Mali	June 2023	<b>AfDB, IBRD, IFC</b>
Kenya	November 2023	<b>IBRD, AfDB, IFC</b>
Ukraine	November 2023	<b>EBRD, IBRD, IFC</b>
<b>Brazil</b>	June 2023	<b>IDB, IBRD, IFC</b>
Costa Rica	October 2023	<b>IDB, IBRD, IFC</b>
Indonesia	November 2023	<b>ADB, IBRD, IFC</b>
Turkey	November 2023	<b>IBRD, EBRD, IFC</b>
India	November 2023	<b>ADB, IBRD, IFC</b>

# Costa Rica REI Investment Plan

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**Proposed USD 70 million to mobilize USD 673.9 million (1:9.6 ratio)**

- Implemented by IDB, WB, and IFC (6 years, 2024-2030)

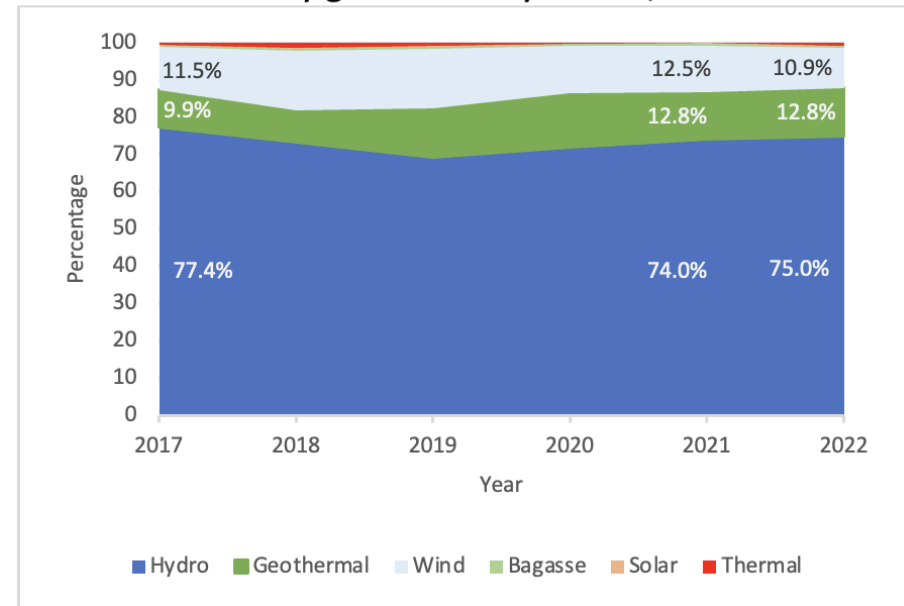
**Objective: To support the decarbonization of the economy by accelerating the just energy transition, through greater private sector participation to:**

- Reduce barriers for the incorporation of innovative technologies in grids;
- Reduce barriers for the electrification of energy uses in transport and industry; and
- Strengthen the relationship between users and the grid through value-added services, savings, and equitable efficiency.

**The IP aims to:**

- **Meet increasing demand with renewable generation**
- **Enhance system and market design**, enabling improved grid efficiency, performance, and quality of service and **integration of new RE sources** (i.e. excluding large hydro) and storage
- **Electrify public transport** to reduce dependence on fossil fuel
- **Promote a just energy transition**

Gross electricity generation by source, 2017 – 2022



# Costa Rica REI Investment Plan

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**Component 1: Smart grids and flexibility of the national electricity system, (USD 172.5m, of which USD 18.3m CIF)**

- Projects to accelerate the process of digitalization, modernization, and automatization of grids.

**Component 2: Electrification of energy uses, (USD 568.5m, of which USD 48.7m CIF)**

- Electrify public transport with the installation of charging stations and replacement of industrial combustion equipment with electric.

**Technical Assistance, (USD 3.0m CIF)**

- Greater and more effective integration of women in the energy and transport workforces, feasibility studies, and capacity building.

**Key Expected Outcomes:**

- 67% (1,295,571 users) smart meter coverage with 724,000 AMS units installed
- USD 1.2 million cost reduction of electricity service operation annually
- 185 electric buses provided with charging infrastructure
- 17,729 tCO2e reduction per year



Source: ICE (2023). PEG 2022-2040

# Fiji REI Investment Plan

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**Proposed USD 70m to mobilize an additional USD 125m (1:1.8 ratio)**

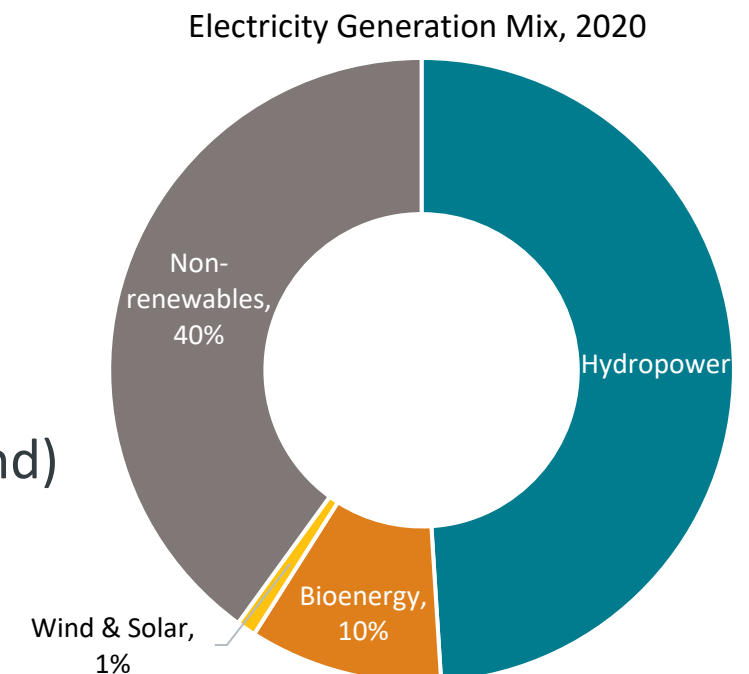
- Implemented by ADB, WB, and IFC

**Objective: To enhance the flexibility of Fiji's energy system in ways that allow for the integration of VRE and for greater access to RE in areas with limited connectivity by:**

- Upgrading and constructing transmissions lines and substations
- Electrifying the outer islands

**The IP aims to support Fiji's goals to:**

- Reach 100% electrification (from 96% at present)
- Produce 100% of national electricity from RE sources by 2030 (currently 49% hydro, 10% bioenergy, less than 1% solar and wind)
- Achieve net zero annual GHG emissions by 2050



# Fiji REI Investment Plan

## Component 1: Viti Levu Green Circuit (USD 145m, of which USD 35m CIF)

- Upgrade and improve climate resilience of the transmission network (132 kV transmission lines and substations) to enable evacuation of existing and planned RE
- Advisory support for 40 MW of new solar IPPs, guarantees to mitigate risk perceptions, and related TA studies

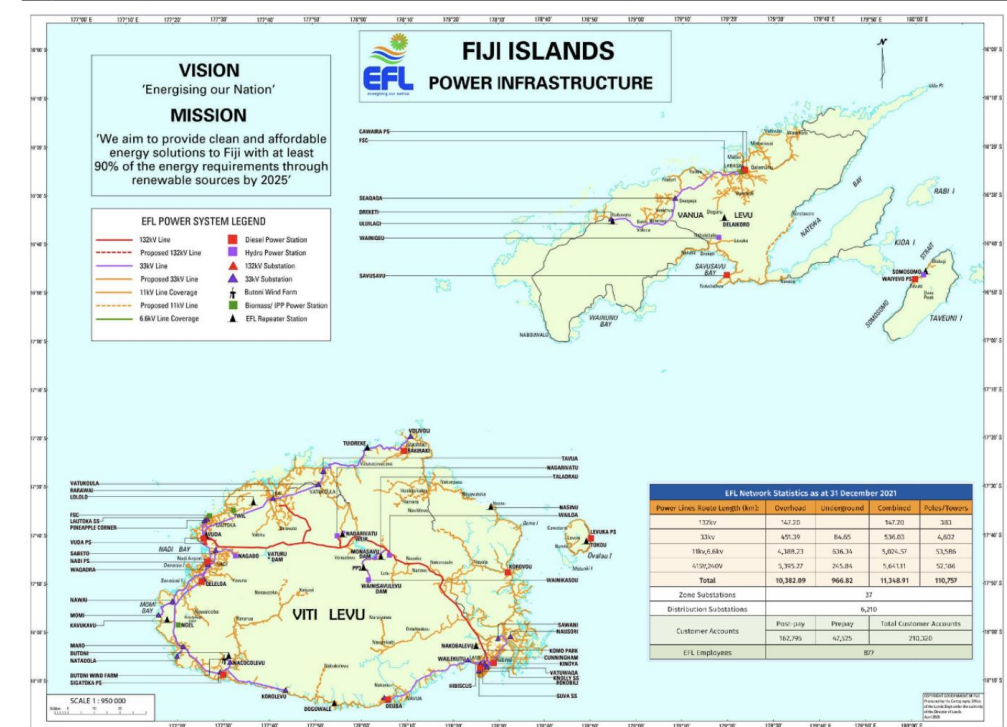
## Component 2: Electrification of Outer Islands (USD 50m, of which USD 35m CIF)

- Grid extension, distribution line construction, and solar hybrid system installation.

### Key Expected Outcomes include:

- MW of installed RE capacity on new or upgraded transmission lines
- Number of customers connected to the grid
- MWh of clean energy consumed by customers benefiting from connections
- Global CO2 and local (NOx, SOx, particulates) emissions offset

Figure 3.3: Fiji's Transmission and Distribution Grid Infrastructure, 2021



Source: Energy Fiji Limited, "2021 Annual Report."

# RE Integration Learning Platform

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- The platform allows **all countries** to benefit from knowledge sharing and applied learning
- **Next Learning Event on November 10:**  
*Unlocking Opportunities for Private Sector Participation in RE Integration*
- Several additional topics for **learning activities:**
  - Resilience in energy systems
  - Policy and regulatory reforms
  - Technical and operational enhancements
  - Country groups (e.g. SIDS)







# Renewable Energy Recommended Rightsizing

*November 2023*

# CTF Decision – Nov 8, 2023

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## CTF Committee

- Approved on an exceptional basis to fund IPs for Ukraine, Indonesia, Turkiye and India – up to \$70 million;
- In addition to meeting REI criteria, IPs must meet CTF criteria;
- Results to be reported in CTF results and tracked in REI (without double counting);
- IPs must be submitted by April 15, 2024;

# Recommended REI Rightsize Envelopes for GCAP Guidance

Country	Amount (USD million)
Mali	32.60
Costa Rica	45.00
Fiji	30.51
Kenya	46.39

\*Amounts determined based on VRE Penetration

# CIF



# CLIMATE INVESTMENT FUNDS

*Investing in the future*

