

Benin - Power Sector Policy and Insitutional Reform

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Overview

Identification

COUNTRY

Benin

EVALUATION TITLE

Power Sector Policy and Institutional Reform

EVALUATION TYPE

Independent Performance Evaluation

ID NUMBER

DDI-MCC-BEN2-ENERGY-PSPIR-2020-V1

Version

VERSION DESCRIPTION

Version 01

Overview

ABSTRACT

MCC is partnering with GoB to implement the Benin Power Compact (also known as the Benin II Energy Compact) from 2017 to 2022 in order to address the challenges associated with electricity generation, distribution, and access and to align the various programs supporting the Beninese power sector with GoB priorities. The compact includes four projects: (1) the Electricity Distribution Project, which will renovate the country's electrical grid and construct a national dispatching center; (2) the Electricity Generation Project, which supports entry of private energy producers into the Benin market; (3) the Off-Grid Electricity Project, which supports independent renewable power producers entering the Benin market; and (4) the Policy Reform and Institutional Strengthening Project, which includes support to GoB to revise energy codes and improve the regulatory environment, upgrade the operational and financial functioning of the main electric utility, and encourage the adoption of energy-efficient practices.

MCC has contracted with Mathematica to conduct an evaluation of the Policy Reform and Institutional Strengthening Project (also known as the Reform Project), a component of the compact intended to improve government-affiliated institutions involved in Benin's power sector. In particular, the Reform Project aims to strengthen regulation of the power sector, establish cost-effective tariffs, improve functioning of the main electric utility, and provide an institutional framework for independent power producers.

EVALUATION METHODOLOGY

Pre-Post

UNITS OF ANALYSIS

Individuals, households, enterprises, administrative units

KIND OF DATA

Sample survey data [ssd]

TOPICS

Topic	Vocabulary	URI
Energy	MCC Sector	

KEYWORDS

Benin, Energy, Grid-level outcomes, Benin Compact, Power, Institutional reform, Electricity, Power sector reform, Tariff reform, Utility, SBEE, IPPs

Coverage

GEOGRAPHIC COVERAGE

Capital city, municipalities in Benin

UNIVERSE

Households and enterprises, SBEE customers and staff, Government of Benin, MCC and other donors

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Mathematica	

FUNDING

Name	Abbreviation	Role
Millennium Challenge Corporation	MCC	

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Millennium Challenge Corporation	MCC		Review of Metadata
Mathematica			Independent Evaluator

DATE OF METADATA PRODUCTION

2019-12-31

DDI DOCUMENT VERSION

Version 1 (Original 2019-12-31)

DDI DOCUMENT ID

DDI-MCC-BEN2-ENERGY-PSPIR-2020-V1

MCC Compact and Program

COMPACT OR THRESHOLD

Benin Compact II

PROGRAM

MCC is partnering with GoB to implement the Benin Power Compact (also known as the Benin II Energy Compact) from 2017 to 2022 in order to address the challenges associated with electricity generation, distribution, and access and to align the various programs supporting the Beninese power sector with GoB priorities. The compact includes four projects: (1) the Electricity Distribution Project, which will renovate the country's electrical grid and construct a national dispatching center; (2) the Electricity Generation Project, which supports entry of private energy producers into the Benin market; (3) the Off-Grid Electricity Project, which supports independent renewable power producers entering the Benin market; and (4) the Policy Reform and Institutional Strengthening Project, which includes support to GoB to revise energy codes and improve the regulatory environment, upgrade the operational and financial functioning of the main electric utility, and encourage the adoption of energy-efficient practices. MCC has contracted with Mathematica to conduct an evaluation of the Policy Reform and Institutional Strengthening Project (also known as the Reform Project), a component of the compact intended to improve government-affiliated institutions involved in Benin's power sector. In particular, the Reform Project aims to strengthen regulation of the power sector, establish cost-effective tariffs, improve functioning of the main electric utility, and provide an institutional framework for independent power producers.

MCC SECTOR

Energy (Energy)

PROGRAM LOGIC

The main objectives of the Reform Project are to improve the governance, management, and operations of Benin's electricity sector by modifying the sector's governing policies and regulatory frameworks and strengthening the capacity of Société Béninoise d'Énergie Électrique (SBEE), Autorité de Régulation de l'Électricité (ARE), and other GoB institutions. In addition, the project is expected to increase energy efficiency and improve the financial stability of the electric utility through increased cost recovery, narrowing the gap between electricity supply and demand. MCC expects these objectives to be met through implementation of the three activities: (1) Policy, Regulation and Institutional Support; (2) Utility Strengthening; and (3) Public Information and Education.

Sampling

Study Population

Households and enterprises, SBEE customers and staff, Government of Benin, MCC and other donors

Deviations from Sample Design

Not applicable, as this report outlines the sample design

Response Rate

Not applicable, as this report outlines the sample design

Weighting

We will consider statistical approaches to attrition (such as inverse probability weighting based on observable characteristics) if attrition is indeed a large problem.

Questionnaires

Overview

We will use high-frequency telephone surveys and will also conduct business and household surveys for the pre-post portion of the evaluation.

Data Collection

Data Collection Dates

Start	End	Cycle
2018-09-01	2018-10-31	Baseline (estimated)
2020-09-01	2020-10-31	Interim (estimated)
2022-09-01	2022-10-31	Endline (estimated)

Data Collection Notes

None, as we have not yet collected data

Questionnaires

We will use high-frequency telephone surveys and will also conduct business and household surveys for the pre-post portion of the evaluation.

Supervision

N/A, as we have not yet collected the data or procured the data collection

Data Processing

Data Editing

N/A, as we have not yet collected the data

Other Processing

N/A, as we have not yet collected the data

Data Appraisal

Estimates of Sampling Error

Not applicable, as this report outlines the sample design