

# PMR Public Report

|                             |                                  |   |          |
|-----------------------------|----------------------------------|---|----------|
| <b>Operation Number</b>     | NI-L1091                         | <b>Chief of Operations Validation Date</b>    | 10/22/21 |
| <b>Year- PMR Cycle</b>      | First period Jan-Jun 2021        | <b>Division Chief Validation Date</b>         |          |
| <b>Last Update</b>          | 10/22/21                         | <b>Country Representative Validation Date</b> |          |
| <b>PMR Validation Stage</b> | Validated by Chief of Operations |   |          |

## Basic Data

### Operation Profile

|                           |  |   |   |
|---------------------------|--|---|---|
| <b>Operation Name</b>     | Expansion and Strengthening of Nicaragua's Electricity Transmission System | <b>Loan Number</b>                      | 3611/BL-NI  |
| <b>Executing Agency</b>   | EMPRESA NACIONAL DE TRANSMISIÓN ELÉCTRICA                                  | <b>Sector/Subsector</b>                 | ENERGY-ENERGY INTEGRATION   |
| <b>Team Leader</b>        | JACOME MONTENEGRO, CARLOS ALBERTO  | <b>Overall Stage</b>                    | Disbursing (From eligibility until all the Operations are closed) |
| <b>Operation Type</b>     | Loan Operation   | <b>Country</b>                          | Nicaragua   |
| <b>Lending Instrument</b> | Investment Loan  | <b>Convergence related Operation(s)</b> |   |
| <b>Borrower</b>           | REPUBLICA DE NICARAGUA   |   |   |

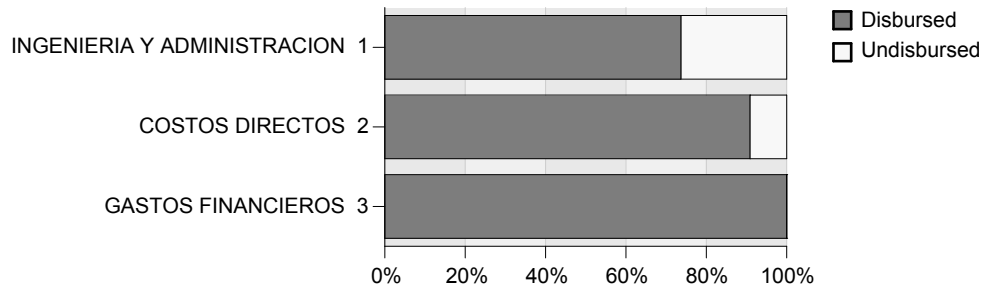
## Environmental and Social Safeguards

|   |  |  |    |
|---|--|--|----|
| <b>Impacts Category</b>                         | B  | <b>Was/Were the objective(s) of this operation reformulated?</b> | NO |
| <b>Safeguard Performance Rating</b>             | Partially Satisfactory   | <b>Date of approval</b>  |    |
| <b>Safeguard Performance Rating - Rationale</b> | Se mantiene la clasificación de desempeño en Parcialmente Satisfactorio (PS) debido a que aún están pendientes la mayoría de los compromisos socioambientales adquiridos en la misión del 2020 (la del 2021 fue de escritorio). Estos compromisos pendientes no son significativos en relación con los impactos negativos causados por el proyecto, sino más bien relacionados con el mejoramiento socioambiental del programa. Sin embargo, y dado que la operación está cerrando, es muy importante que los compromisos sean cumplidos para la fecha acordada, para evitar pasivos socioambientales que además podría empeorar la clasificación de desempeño socioambiental. |  |    |

## Financial Data

| Item       | Total Cost and Source |             |                   |                        |                     | Available Funds (US\$) |                      |        |                    |
|------------|-----------------------|-------------|-------------------|------------------------|---------------------|------------------------|----------------------|--------|--------------------|
|            | Original IDB          | Current IDB | Local Counterpart | Co-Financing / Country | Total Original Cost | Current IDB            | Disb. Amount to Date | % Disb | Undisbursed Amount |
| NI-L1091   | 40,000,000            | 40,000,000  | 3,041,800         | 0                      | 43,041,800          | 40,000,000             | 38,000,000           | 95.00% | 2,000,000          |
| Aggregated | 40,000,000            | 40,000,000  | 3,041,800         | 0                      | 43,041,800          | 40,000,000             | 38,000,000           | 95.00% | 2,000,000          |

## Expense Categories by Loan Contract (cumulative values)



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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 0:** Promover el aumento del bienestar de la población mediante el refuerzo de la infraestructura de Transmisión

**Observation:**

|  | Indicator   | Unit of Measure | Baseline | Baseline Year | Expected Year of Achievement |    | Target |
|--|---|-----------------|----------|---------------|------------------------------|----|--------|
| 0.0  | Energía no servida en las zonas de influencia   | GWh             | 66.00    | 2014          | 2021                         | P  |        |
|  |   |                 |          |               |                              | A  | 0.65   |
| Details  |   |                 |          |               |                              |    |        |
| Pro-Gender   | No  |                 |          | Pro-Ethnicity |                              | No |        |
| The General Development bjective indicator target is expected tobe observed by the operation's "Fully Justified" date inConvergence (CO) |   |                 |          |               |                              |    |        |
|  | No  |                 |          |               |                              |    |        |
|  | Indicator   | Unit of Measure | Baseline | Baseline Year | Expected Year of Achievement |    | Target |
| 0.1  | Energía Intercambiada desde Nicaragua en el MER, importación y exportación de energía | GWh             | 71.30    | 2014          | 2021                         | P  |        |
|  |   |                 |          |               |                              | A  |        |
| Details  |   |                 |          |               |                              |    |        |
| Pro-Gender   | No  |                 |          | Pro-Ethnicity |                              | No |        |
| The General Development bjective indicator target is expected tobe observed by the operation's "Fully Justified" date inConvergence (CO) |   |                 |          |               |                              |    |        |
|  | No  |                 |          |               |                              |    |        |
|  | Indicator   | Unit of Measure | Baseline | Baseline Year | Expected Year of Achievement |    | Target |
| 0.2  | Reducción en el uso de fuentes de energía no modernas                                 | MW              | 0.00     | 2014          | 2021                         | P  |        |
|  |   |                 |          |               |                              | A  |        |
| Details  |   |                 |          |               |                              |    |        |
| Pro-Gender   | No  |                 |          | Pro-Ethnicity |                              | No |        |
| The General Development bjective indicator target is   |   |                 |          |               |                              |    |        |
|  | No  |                 |          |               |                              |    |        |

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### RESULTS MATRIX

#### General Development Objectives

expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

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### RESULTS MATRIX

#### Specific Development Objectives

**Specific Development Objectives Nbr. 0:** C1. Mejora de la infraestructura de transmisión para apoyar el aumento de cobertura eléctrica integral

**Observation:**

| Indicator  |  | Unit of Measure | Baseline      | Baseline Year |   | 2017  | 2018  | 2019  | 2020 | 2021  | 2022 | EOP 2022 |
|------------|--|-----------------|---------------|---------------|---|-------|-------|-------|------|-------|------|----------|
|            |  |                 |               |               |   |       |       |       |      |       |      |          |
| 0.0        | "Energía no servida" reducida en las zonas de influencia del Programa  | GWh             | 66.00         | 2014          | P |       |       |       |      | 1.00  |      | 1.00     |
|            |  |                 |               |               | A | 1.00  | 0.33  | 0.57  |      |       |      |          |
| Details    |  |                 |               |               |   |       |       |       |      |       |      |          |
| Pro-Gender |  | No              | Pro-Ethnicity |               |   |       | No    |       |      |       |      |          |
|            |  |                 |               |               |   |       |       |       |      |       |      |          |
| Indicator  |  | Unit of Measure | Baseline      | Baseline Year |   | 2017  | 2018  | 2019  | 2020 | 2021  | 2022 | EOP 2022 |
| 0.1        | Capacidad de transmisión de carga incrementada para atender la demanda eléctrica en las zonas de influencia del Programa                   | MW              | 11.00         | 2014          | P |       |       |       |      | 27.00 |      | 27.00    |
|            |  |                 |               |               | A | 11.00 | 11.00 | 11.00 |      |       |      |          |
| Details    |  |                 |               |               |   |       |       |       |      |       |      |          |
| Pro-Gender |  | No              | Pro-Ethnicity |               |   |       | No    |       |      |       |      |          |
|            |  |                 |               |               |   |       |       |       |      |       |      |          |
| Indicator  |  | Unit of Measure | Baseline      | Baseline Year |   | 2017  | 2018  | 2019  | 2020 | 2021  | 2022 | EOP 2022 |
| 0.2        | Capacidad de transmisión de carga para atender la conexión de nuevos proyectos con energía renovable en la zona de influencia del Programa | MW              | 0.00          | 2014          | P |       |       |       |      | 22.00 |      | 22.00    |
|            |  |                 |               |               | A | 0.00  | 0.00  | 0.00  |      |       |      |          |
| Details    |  |                 |               |               |   |       |       |       |      |       |      |          |
| Pro-Gender |  | No              | Pro-Ethnicity |               |   |       | No    |       |      |       |      |          |

**Specific Development Objectives Nbr. 1:** C2. Mejora en sistema de transmisión nacional para respaldar la capacidad del sistema eléctrico regional

**Observation:**

| Indicator  |   | Unit of Measure | Baseline | Baseline Year |   | 2017  | 2018  | 2019   | 2020 | 2021   | 2022 | EOP 2022 |
|------------|---|-----------------|----------|---------------|---|-------|-------|--------|------|--------|------|----------|
| 1.0        | Máxima capacidad de transferencia regional aumentada entre áreas de control | MW              | 80.00    | 2014          | P |       |       |        |      | 300.00 |      | 300.00   |
|            |   |                 |          |               | A | 50.00 | 90.00 | 260.00 |      |        |      |          |
| Details    |   |                 |          |               |   |       |       |        |      |        |      |          |
| Pro-Gender |   | No              |          | Pro-Ethnicity |   | No    |       |        |      |        |      |          |

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

## Component Nbr. 1 Componente I: Mejoramiento de la infraestructura de transmisión para apoyar el aumento de cobertura integral

|     | Output  | Unit of Measure                                      |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |              |
|-----|---|--|------|-------------------|----------|--------------------|--------------|
|     |   |  |      | 2021              | EOP 2022 | 2021               | EOP 2022     |
| 1.1 | P1-A. Subestación Waslala 138 kV con capacidad 30 MVA, construida y operando                          | # de subestaciones                                   | P    |                   | 1        |                    | 3,838,300    |
|     |   |  | P(a) |                   | 1        |                    | 5,462,602.69 |
|     |   |  | A    | 0                 | 1        | 0                  | 5,462,602.69 |
| 1.2 | P1-B. Línea de Transmisión La Dalia - Waslala 138 kV, construida y operando                           | Electricity transmission and distribution lines (km) | P    |                   | 47       |                    | 9,928,600    |
|     |   |  | P(a) |                   | 48.3     |                    | 7,807,321.12 |
|     |   |  | A    | 0                 | 48.3     | 0                  | 7,807,321.1  |
| 1.3 | P2-A. Subestación Santa Clara 138 kV con capacidad 25 MVA, construida y operando                      | # de subestaciones                                   | P    |                   | 1        |                    | 4,394,000    |
|     |   |  | P(a) |                   | 1        |                    | 4,253,635.97 |
|     |   |  | A    | 0                 | 1        | 0                  | 4,253,635.97 |
| 1.4 | P2-B. Línea de Transmisión Ocotal - Santa Clara 138 kV, construida y operando                         | Electricity transmission and distribution lines (km) | P    |                   | 47.3     |                    | 9,723,000    |
|     |   |  | P(a) |                   | 47.3     |                    | 2,866,418.74 |
|     |   |  | A    | 0                 | 47.3     | 0                  | 2,866,418.74 |
| 1.5 | P3-A. Subestación Jinotega 138 kV con capacidad 25 MVA, construida y operando                         | # de subestaciones                                   | P    |                   | 1        |                    | 5,320,000    |
|     |   |  | P(a) |                   | 1        |                    | 4,952,018.83 |
|     |   |  | A    | 0                 | 1        | 0                  | 4,952,018.84 |
| 1.6 | P3-B. Línea de Transmisión Jinotega - Tramo Planta Centroamérica-Sébaco 138 kV, construida y operando | Electricity transmission and distribution lines (km) | P    |                   | 5.7      |                    | 1,422,000    |
|     |   |  | P(a) |                   | 5.7      |                    | 1,479,603.84 |
|     |   |  | A    | 0                 | 5.7      | 0                  | 1,479,602.9  |

## Component Nbr. 2 Componente II: Mejoras en el sistema de transmisión nacional para respaldar la capacidad del sistema regional

|     | Output   | Unit of Measure                                      |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |              |
|-----|--|--|------|-------------------|----------|--------------------|--------------|
|     |  |  |      | 2021              | EOP 2022 | 2021               | EOP 2022     |
| 2.1 | P4. Línea de transmission Los Brasiles - Acahualinca - Managua 138 kV con capacidad ampliada y operando                                      | km de línea  | P    |                   | 13.5     |                    | 685,000      |
|     |  |  | P(a) | 220               | 220      | 2,096,980.4        | 2,096,980.4  |
|     |  |  | A    | 0                 | 0        | 0                  | 0            |
| 2.2 | P5. Línea de transmisión San Benito - Los Brasiles Segunda Fase 230 kV (tramo Santa María - Campusano - Los Brasiles), construida y operando | Electricity transmission and distribution lines (km) | P    |                   | 52       |                    | 5,364,200    |
|     |  |  | P(a) | 0                 | 50.5     | 2,094,720.93       | 4,384,710.08 |
|     |  |  | A    | 0                 | 50.5     | 2,094,720.95       | 4,384,710.1  |
| 2.3 | P6. Ampliación de la capacidad de transformación 230/138kv en Subestación Ticuantepe II (Tercer Autotransformador 230/138 kv)                | kV   | P    |                   | 0        |                    | 0            |
|     |  |  | P(a) | 1                 | 1        | 327,335.87         | 3,924,758.27 |
|     |  |  | A    | 1                 | 1        | 119,501.71         | 3,716,924.11 |
| 2.4 | P-7. Compensación Inductiva (Reactores en las Subestaciones RACCN)   | Reactores  | P    |                   | 0        |                    | 0            |
|     |  |  | P(a) | 2                 | 2        | 1,799,574.81       | 3,346,425.15 |
|     |  |  | A    | 2                 | 2        | 1,799,574.8        | 3,346,425.14 |

## Other Cost

|  |      |  |  |            |              |
|--|------|--|--|------------|--------------|
| A1. Ingeniería, Supervisión y Administración | P    |  |  |            | 1,500,000    |
|  | P(a) |  |  | 44,478     | 4,283,758.95 |
|  | A    |  |  | 250,242.54 | 4,464,523.49 |
| A2. Gastos Financieros                       | P    |  |  |            | 866,700      |
|  | P(a) |  |  |            | 866,699.53   |
|  | A    |  |  | 0          | 866,699.53   |
| A.3 Sin Asignación                           | P    |  |  |            | 0            |
|  | P(a) |  |  |            | 0            |
|  | A    |  |  | 0          | 0            |

Total Cost

|  |            |      |  |  |              |               |
|--|------------|------|--|--|--------------|---------------|
|  | Total Cost | P    |  |  |              | 43,041,800    |
|  |            | P(a) |  |  | 6,363,090.01 | 45,724,933.57 |
|  |            | A    |  |  | 4,264,040    | 43,600,882.61 |

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## CHANGES TO THE MATRIX

| Section | Name  | Type of Change   | Subtype                | Modified By | Entered in the System |
|---------|---|------------------|------------------------|-------------|-----------------------|
| Output  | Batimetría Acahualinca Managua  | Create Milestone | N/A                    | SAMARR      | 09/24/2021            |
|         | P6. Ampliación de la capacidad de transformación 230/138kv en Subestación Ticuantepe II (Tercer Autotransformador 230/138 kv) | Modify Output    | Modify Unit of Measure | SAMARR      | 10/22/2021            |

## RISKS AND PLANNED RESPONSES

| Risk ID | Risk Status      |                     | Risk Taxonomy       |
|---------|------------------|---------------------|---------------------|
| 1       | Inactive         |                     | Goods, and Services |
|         |                  |                     |                     |
|         | Response actions |                     |                     |
|         | 1.1              | Management Strategy | Status              |
|         |                  | MITIGATE            | COMPLETE            |
|         |                  |                     |                     |
|         | 1.2              | Management Strategy | Status              |
|         |                  | MITIGATE            | COMPLETE            |
|         |                  |                     |                     |
| Risk ID | Risk Status      |                     | Risk Taxonomy       |
| 2       | Inactive         |                     | Goods, and Services |
|         |                  |                     |                     |
|         | Response actions |                     |                     |
|         | 2.1              | Management Strategy | Status              |
|         |                  | MITIGATE            | ACTIVE              |
|         |                  |                     |                     |
|         | 2.2              | Management Strategy | Status              |
|         |                  | MITIGATE            | ACTIVE              |
|         |                  |                     |                     |
| Risk ID | Risk Status      |                     | Risk Taxonomy       |
| 3       | Active           |                     | Internal Processes  |
|         |                  |                     |                     |
|         | Response actions |                     |                     |
|         | 3.0              | Management Strategy | Status              |
|         |                  | -                   |                     |



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## IMPLEMENTATION STATUS AND LEARNING

| Lesson Learned - Categories |
|-----------------------------|
| Project Design              |
| Stakeholder Priorities      |