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#### **Agenda**

- 1 CFE at a glance
- 2 Mexican power sector
- 3 CFE Transmisión regulated tarriff
- 4 CFE Fibra E structure
- 5 2018 results and prospective



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# Comisión Federal de Electricidad (CFE): more tan 80 years of history, public service, progress, and innovation.

1937



Population in Mexico with electricity

Installed capacity

38.0%

64 kW

Generation

Transmission and distribution

Clients

1 plant

Without its own network

In 1942: ~105,000

2Q18



**Population in Mexico with electricity** 

**Installed capacity** 

98.7%

55,240 MW

Generation

Transmission and distribution

**Clients** 

**187** Plants (CFE: 157, IPP<sup>1</sup>: 30)

Transmission grid: 107,422 Km Distribution networks: 834,454 Km

42.8 million

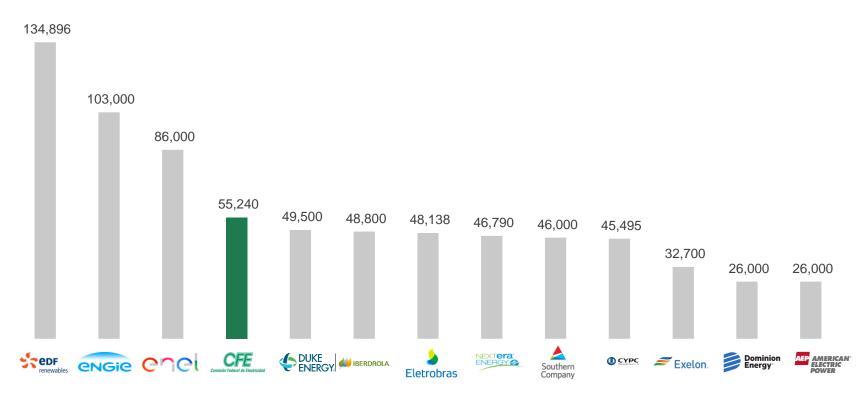
Source: CFE. <sup>1</sup> Independent Power Producers.



### CFE is a relevant player compared to the largest electricity companies in the world.

#### Installed capacity\*

(MW, end 2017)



\* Selected companies based on the Global Industry Classification Standard by MSCI and Standard & Poor's.



Source: EDF, Engie, Enel, CFE, Duke Energy, Iberdrola Electrobras, Nextera Energy, Southern Company, CYPC, Exelon, Dominion, American Electric Power.

Note: Installed capacity for CFE corresponds to Q2 2018; for Iberdrola corresponds to Q1 2018.

#### In recent years, CFE has been through a profound transformation.

# CFE as a state-owned company

**Electricity** company

Vertically integrated monopoly

Responsible for the **public power** service

No differentiation between activities

**Budget control** with low flexibility

# **CFE** as a state-owned productive enterprise

**Energy** company

**Competition** in generation and supply

Generates value and profitability for Mexico

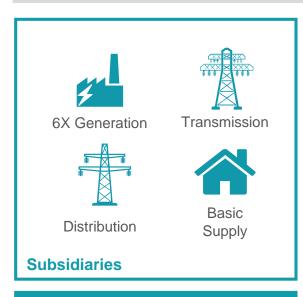
**Dynamic structure** with subsidiaries, affiliates, and business units

Financial balance target with **economic**decisions based on profitability



Source: CFE.

### Company snapshot: 14 subsidiaries and affiliates plus specific business units.







- Transmission and distribution are activities exclusively reserved for CFE as stated in the Mexican Constitution.
- Basic supply is carried out very closely with distribution, as it includes the billing and its processing.
- Each subsidiary and affiliate operates with its own governing body and cannot perform activities outside of its scope.

- CFE is consolidating a **new** fuel trading business.
- Affiliate of legacy contracts is in charge of the administration of contracts created under the former regulation.



Source: CFE and CFECapital.

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# New regulatory and institutional framework attracts capital and technology.

#### Generation



Open to competition among private and public generators.

No legal barriers to entry.

### Transmission and distribution



Open access to the transmission network and the distribution grids.

Property and operations remain exclusive for CFE.

#### Commercialization



Two different types of services:

1) basic supply and 2) qualified supply.

#### Private participation schemes

- Sell in the wholesale electricity market.<sup>1</sup>
- 2. Bilateral contracts.
- 3. Auctions and tenders organized by CENACE.<sup>2</sup>
- Partnerships, joint ventures or bilateral agreements with the State.<sup>3</sup>
- Second carrier figure.<sup>4</sup>

- 1. Register as basic supplier.
- Open to competition among private and public qualified suppliers (>1MW).
- Qualified users can represent themselves.

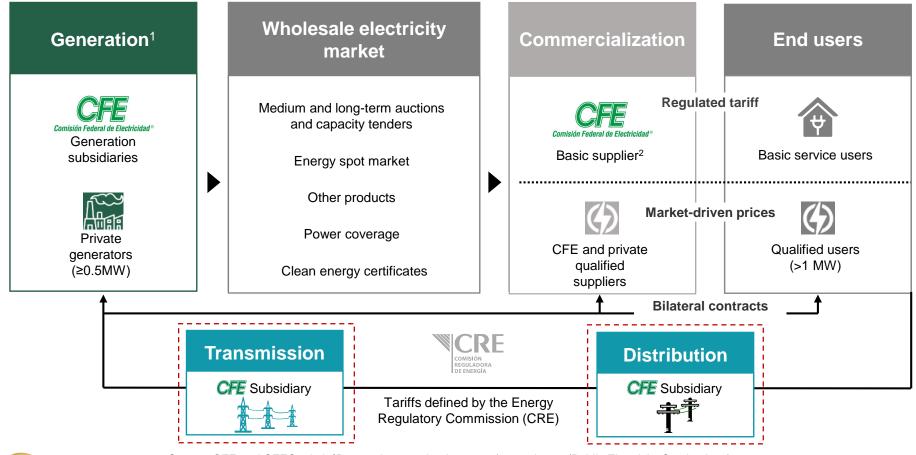


Source: CFE and CFECapital. <sup>1</sup>This market comprises medium and long term auctions and capacity tenders, energy spot market, other products, power market and clean energy certificates market. <sup>2</sup>National Center for Energy Control. <sup>3</sup>To carry out the operation, maintenance and expansion of infrastructure. <sup>4</sup>The Ministry of Energy (*Secretaría de Energía*) announced this on September 18, 2017.

#### Market structure.



Independent system operator and payment collector

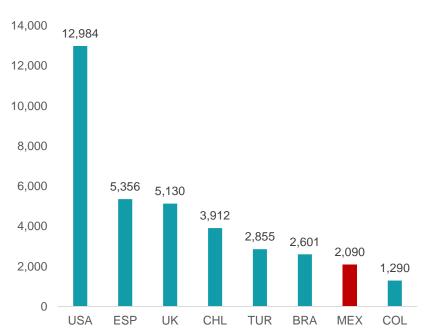




Source: CFE and CFECapital. <sup>1</sup>Power plants under the pre-reform scheme (Public Electricity Service Law) are now encompassed in the Legacy Contract Affiliate and are allowed to sign electricity coverage contracts with basic supplier and include figures of self-supply, co-generation, among others. <sup>2</sup>Currently CFE is the only Basic Supplier, but any other party could request a permit to the CRE in order to provide such service.

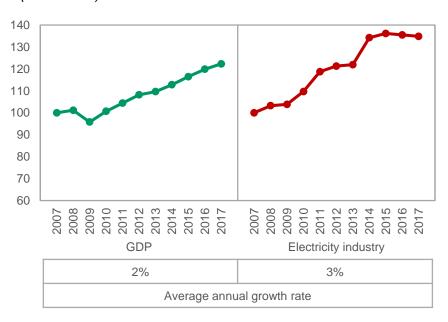
# The energy sector in Mexico is growing, gross power consumption is expected to grow at an annual average rate of 3.1% through 2032.<sup>1</sup>

### **Electric power consumption**<sup>2</sup> (kWh per capita, 2014)



Energy intensity in Mexico is below its potential. Per capita energy consumption is lower than comparable economies such as Spain, Chile, and Brazil.

### National GDP and electricity industry growth index<sup>3</sup> (2007-2017)



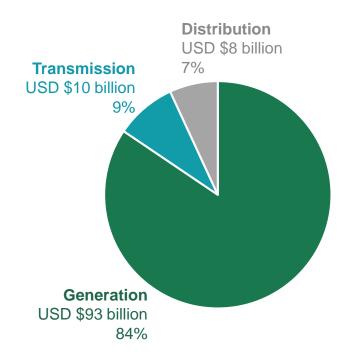
**Mexican electricity industry keeps growing.** During the last decade, it reached an average share of 1.2% of the national GDP and its growth showed greater dynamism than other sectors, including the national economy.

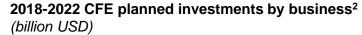


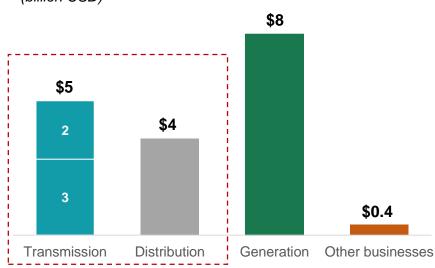
Sources: ¹PRODESEN 2018-2032, *Secretaría de Energía*. Growth rate for the base/planning scenario. ²World Bank and International Energy Agency, selected countries. Is the production of power plants less transmission, distribution, and transformation losses and own use by heat and power plants, divided by midyear population. ³PRODESEN 2018-2032, *Secretaría de Energía*. Original data in constant 2013 MXN. Electricity industry includes generation, transmission, and distribution.

# To meet the requirements, Mexico's power sector will need strategic investments through the entire value chain.

**Investment requirements 2018-2032**<sup>1</sup> (billion USD)







- CFE is planning to invest USD \$17.4 billion in the next 5 years.
- USD \$3 billion for the Transmission sector are expected to come from CFE Fibra E.



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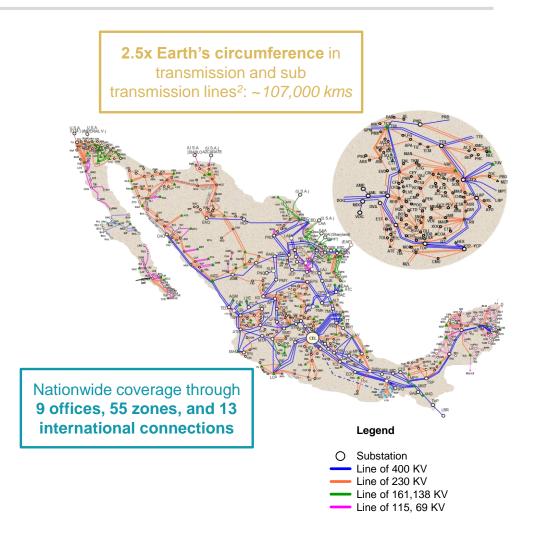


# CFE Transmisión has proven industry experience and is a business with stable cash flows driven by a regulated tariff.

CFE Transmisión manages the resources and infrastructure necessary for electricity transmission throughout the country.

CFE Transmisión has a 100% market share of the electricity transmission activity in Mexico.<sup>1</sup>

Unlike power generation, power transmission is **not impacted by fluctuations in the commodities markets.** 





Source: CFE and CFECapital. ¹Recent regulation provides other participants may enter the market. ²Transmission lines carry a high voltage ranging from 161kV to 400kV. Sub-transmission lines carry a voltage ranging from 69kV to 160kV.

#### Current transmission tariffs methodology overview.

#### **Objective**

**Postage stamp model**<sup>1</sup> that recognizes costs and incentivizes investments. It guarantees access to all market participants and pursues reliability, efficiency, and quality in the service.

Who?

The Energy Regulatory Commission (CRE) is an autonomous agency. Its governing body is composed by seven Commissioners. It establishes all the tariffs and regulations for the activities of transmission and distribution.

When?

The **new tariff** period and its corresponding methodology will be determined by the **end of 2018**, to become effective in 2019.

How?

The tariff is set based on the **total Required Income divided by the total energy transported**<sup>1</sup> through the Transmission grid.



Source: CFE and CFECapital. <sup>1</sup>Acuerdo A/045/2015 (content in Spanish) <a href="http://www.cre.gob.mx/documento/acuerdos/A-045-2015.pdf">http://www.cre.gob.mx/documento/acuerdos/A-045-2015</a> (content in Spanish) <a href="http://www.cre.gob.mx/documento/acuerdos/A-045-2015.pdf">http://www.cre.gob.mx/documento/acuerdos/A-045-2015</a> (content in Spanish)

### Required income: i) recognizes operating costs, ii) rewards capital investment, and iii) encourages cost efficiency.













CFE Transmisión costs

Capital expenditure

Efficiency path

Required income is **assigned to consumers and generators** (70% and 30%, respectively) and divided by volume at two different tension levels<sup>1</sup>.

**Energy losses** as reported by CFE were recognized by the regulator but they **remain** constant.

**Annual adjustments:** 90% weight on inflation and 10% on exchange rate.

**New investments** have to be included in the National Electric System Development Program<sup>2</sup> (PRODESEN).



Operating costs: labor, maintenance, services, materials, taxes and rights.

> Cost of assets: depreciation, financial cost of debt.



Return on capital.



Set at 1% annually based on the regulator analysis.



Source: <sup>1</sup>Acuerdo A/045/2015 (content in Spanish) <a href="http://www.cre.gob.mx/documento/acuerdos/A-045-2015.pdf">http://www.cre.gob.mx/documento/acuerdos/A-045-2015.pdf</a>, CFE, and CFECapital. <sup>2</sup>PRODESEN 2018-2032, Secretaría de Energía.

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#### **CFECapital and CFE Fibra E.**





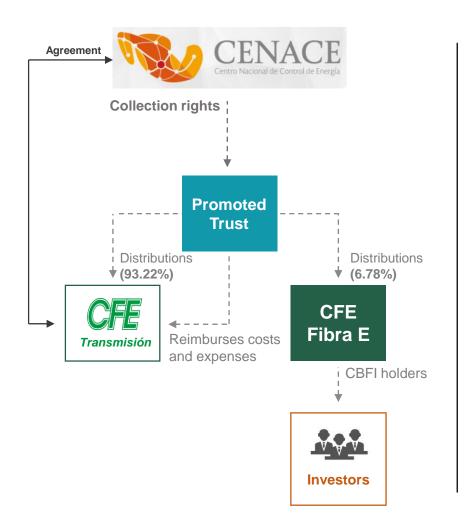
Direct affiliate of CFE Holding and Manager of CFE FIBRA E



- Our objective is to invest in activities under CFE's mandate.
- We will take advantage of the fiscal structure of a FIBRA E<sup>1</sup> in Mexico.<sup>2</sup>



#### **CFE Fibra E: structural soundness**



**CFE Transmisión assigned its collection rights** for a period of 30 years.

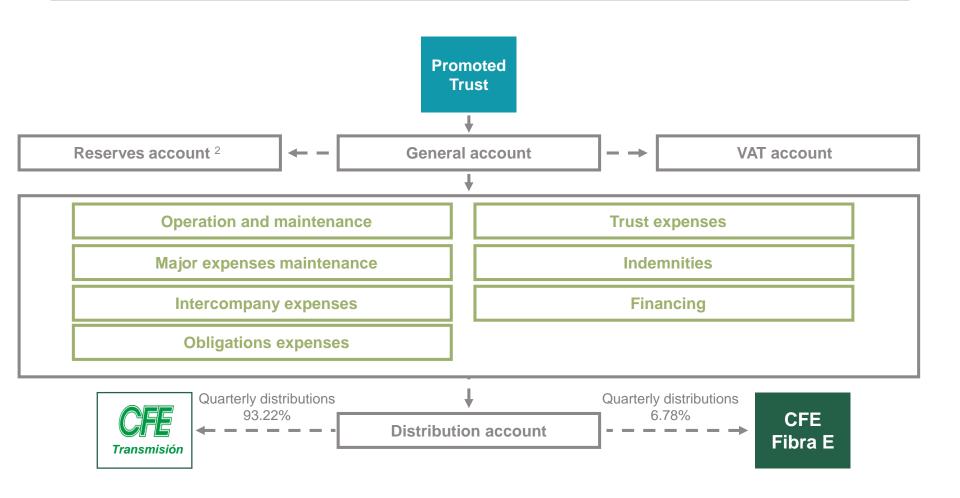
It receives reimbursements for the operation of the Transmission grid based on an annual budget.

CFE Fibra E has strong Corporate
Governance mechanisms and
establishes subordination to
public investors.



Source: CFECapital. CBFI: Certificados Bursátiles Fiduciarios de Inversión en Energía e Infraestructura.

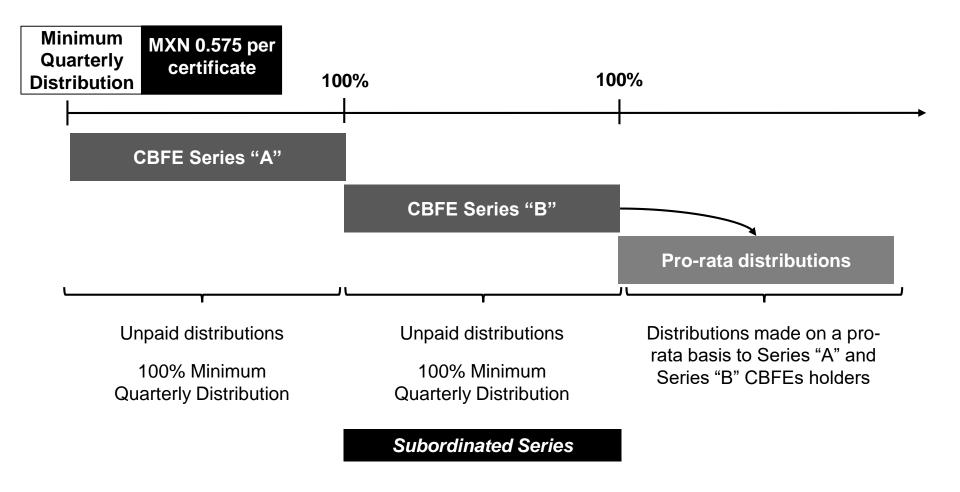
### The Promoted Trust reimburses to *CFE Transmisión* costs and expenses for the operation of the Transmission grid.





Source: Offering filings and CFE. <sup>1</sup>Transmission grid is defined as the transmission and sub transmission lines. It is comprised of (i) a backbone network, (ii) a sub-transmission network integrated by sub-transmission lines, and (iii) interconnections with foreign electric systems. <sup>2</sup>Defined in the Promoted Trust Agreement as a MXN \$250 million pesos fund.

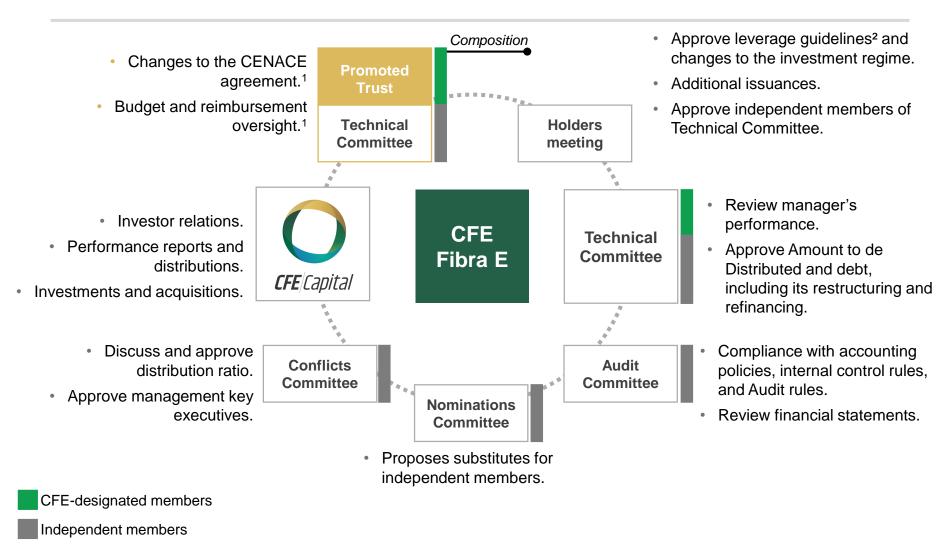
### Series "B" CBFEs hold by CFE are permanently subordinated to the Series "A" hold by investors with respect to distributions<sup>1</sup>.





Source: Offering filings and CFECapital. ¹ Offering Memorandum <a href="http://cfecapital.com.mx/wp-content/uploads/2018/05/Offering-Memorandum-FCFE18.pdf">http://cfecapital.com.mx/wp-content/uploads/2018/05/Offering-Memorandum-FCFE18.pdf</a>

# Corporate governance of CFE Fibra E guarantees transparency, efficiency in the operation, and shared responsibility.





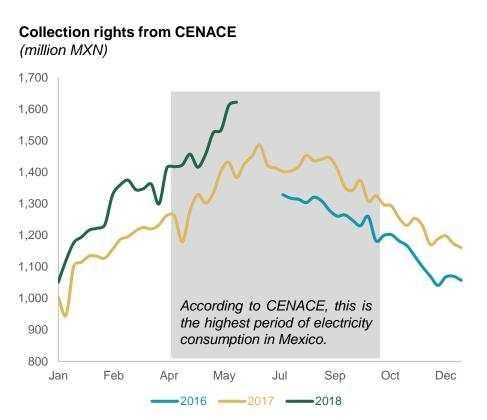
Source: Offering filings and CFECapital. <sup>1</sup>All decisions require independent members approval. <sup>2</sup>Leverage rules require approval of the Technical Committee and the corrective plan needs approval of the Conflicts Committee.

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### Revenues fluctuate during the year, primarily due to the impact that seasonal factors have on electricity consumption and demand.

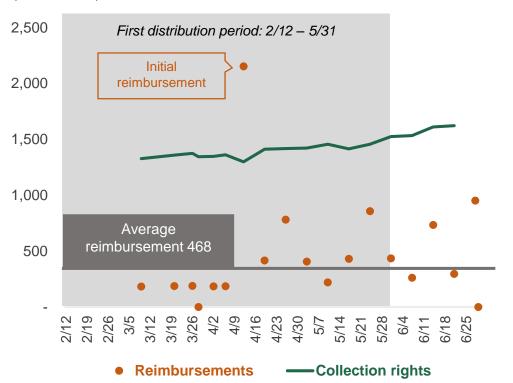


- Weekly collection rights were deposited on the Promoted Trust on a regular basis with neither delay nor deviations from the planned scenario.
- Comparing 2018 vs 2017, from January to June, the average revenue difference is around 10%.
  - Transmission tariffs increased, on average, 4.21% between 2017 and 2018<sup>1</sup>.
  - Transmitted energy volume grew at an average 3.95% YoY<sup>2</sup>.



# Both collection rights and reimbursements behave according to plans, showing no deviations.

### **Collection rights and reimbursements to** *CFE Transmisión* (*million MXN*)



- On average, weekly collection rights from March to June sum up MXN 1,429 million pesos.
- As expected, this period includes the first portion of higher revenues due to seasonality.
- On average, each reimbursement covers around MXN 468 million pesos.
- Cyclicity is driven by intercompany charges and operation and maintenance expenditures.



Source: CFE Transmisión and CFECapital.

#### Reimbursements are going in line with budget.

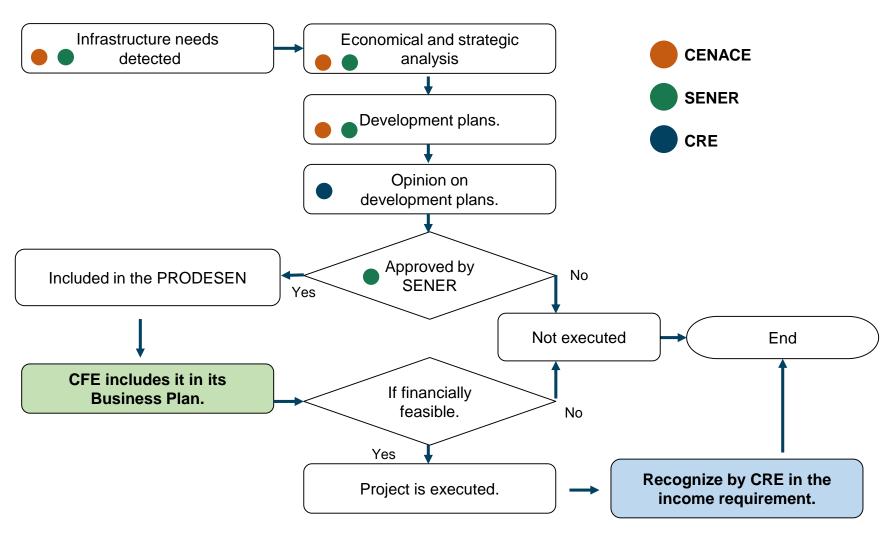
### Reimbursements made vs 2018 budget (million MXN)

Category	2018 Budget	As of June 30	% against budget
Intercompany expenses	6,789	2,362	35%
Operation and maintenance	5,998	1,955	33%
Obligations expenses	3,134	896	29%
Major maintenance	856	41	5%
Trust expenses	15	2	13%
Financing	0	0	0
Total	16,792	5,256	31%

From February 12, 2018 to June 30, 2018 there are 20 weeks of operation out of the 46 operation weeks of 2018. This is equivalent to the **43.4%** of the time.



# For a project to be recognized by the regulator in the tariff, it should follow the next process





Source: PRODESEN 2018-2032, Secretaría de Energía.

### CFE Transmisión projects pipeline was approved by the Board of Directors.



Expected investments for **12.8 billion pesos.** With entry into operation between 2019 and 2023.

# 24 projects

approved by CFE's Board on April 26, 2018



**Smart Energy Grid** with an estimated investment of MXN \$4.9 billion pesos will start operations between 2019 and 2020.



The rest of the projects include **transmission** capacity expansions and voltage and reactive power projects, scheduled to be operating between 2019 and 2023.

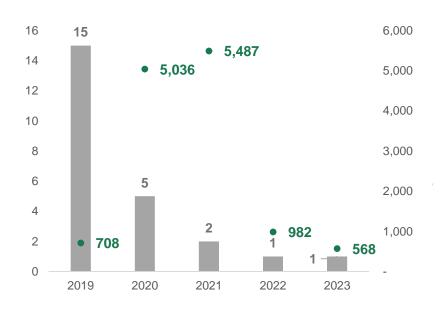


Source: CFE Transmisión and CFE.

### CFE Transmisión projects pipeline was approved by the Board of Directors.

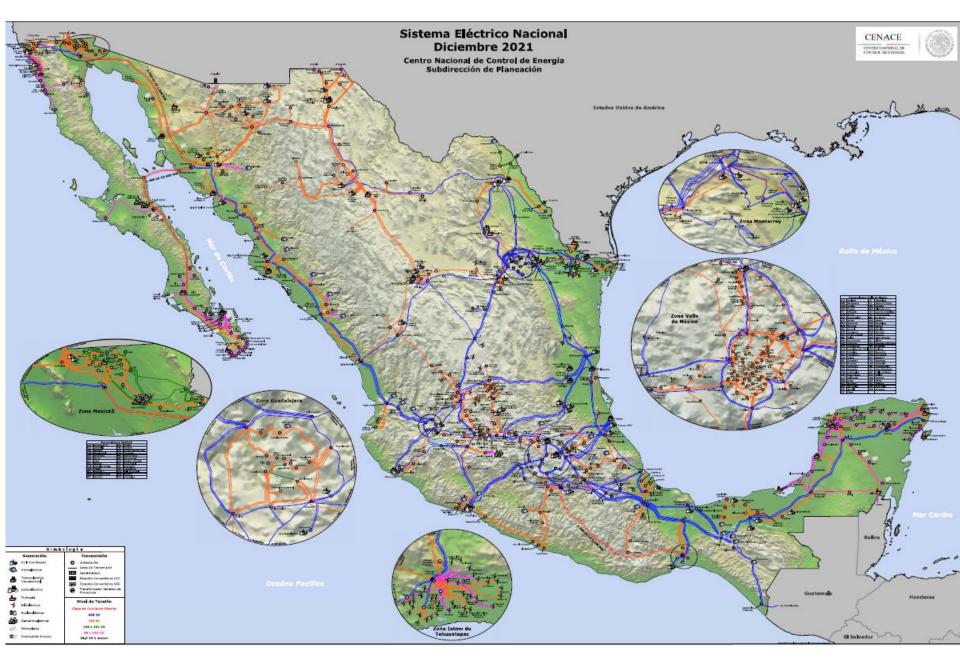
Projects	Investment (million MXN)
Red Eléctrica Inteligente (REI)	4,895
Sistema de Medición del MEM	2,764
Incremento capacidad de transmisión Puebla,	1,162
Temascal, Coatzacoalcos, Grijalva y Tabasco	
El Arrajal Banco 1	982
Suministro Oaxaca Huatulco	592
Potrerillos Banco 4	573
Zona La Laguna	568
Chichi Suárez Bco. 1	526
Compensación Reactiva Inductiva en Seri	120
Interconexión Baja California - Imperial Irrigation District	108
Querétaro Banco 1	94
Ascención II Banco 2	68
Kilómetro 110 – Tulancingo	53
Tabasco Potencia MVAr	49
Donato Guerra MVAr	46
Maneadero entronque Ciprés – Canón	46
El Habal Banco 2	32
Amozoc y Acatzingo MVAr	24
Alvarado II y San Andrés II MVAr	23
Compensación Reactiva Inductiva en Esperanza	13
Izúcar de Matamoros MVAr	12
Esfuerzo MVAr	12
Frontera Comalapa MVAr	11
El Carrizo MVAr	8

### Planned entry into operation and cumulative investment (projects, million MXN)

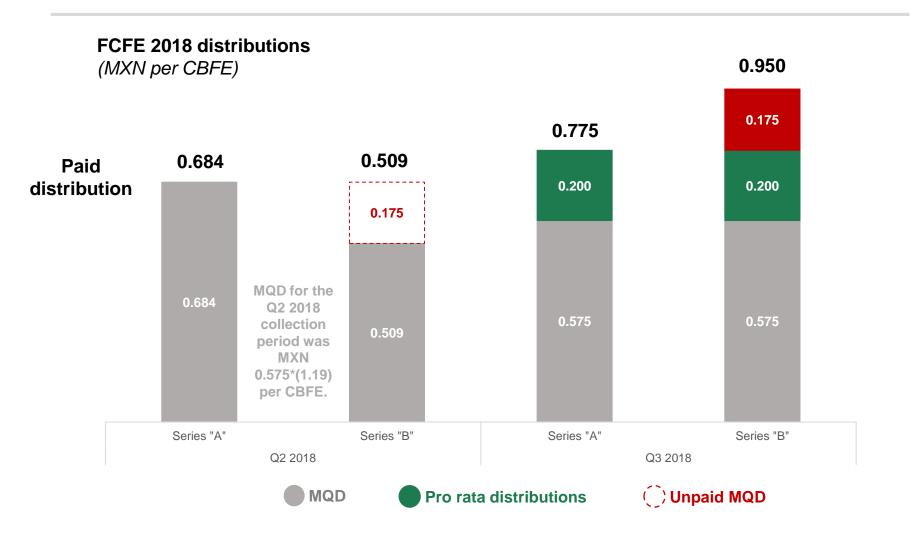




Source: CFE Transmisión and CFE.



#### Delivering results: reaching MQD for both Series and IRR: 12.48%

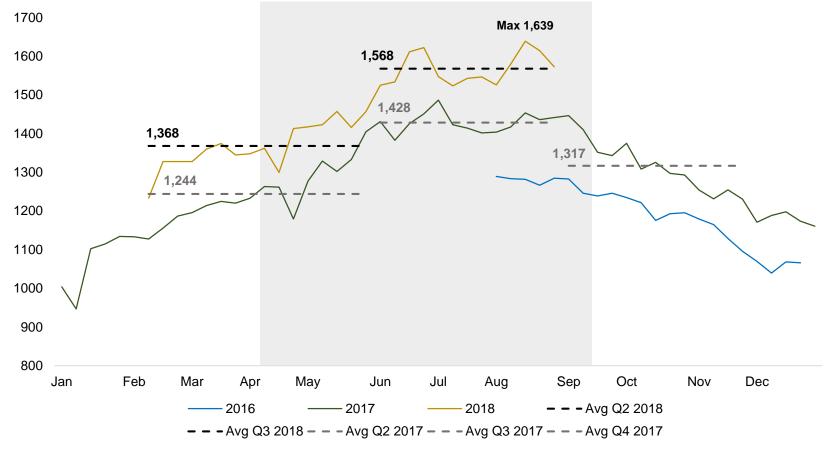




Source: CFE Capital. Rounded figures. Note: For the IRR, the IPO price was taken.

The September 28 distribution covers the highest power consumption period of the year. Income 14.62% higher than previous period.

### **Weekly revenues from CENACE** (million MXN)





Source: CFE Capital and Promoted Trust statement of account.

Note: Q2 distribution: February 12 to May 31; Q3 distribution: June 1 to August 31; Comparison for 2017 considers 2018 equivalent periods.

#### Key activities for 2018

#### I. One more distribution

December 31.

MQD: MXN 0.575 per certificate<sup>1</sup>.

#### II. New transmission tariffs

CFE – CRE: 1) asset value, 2) return on capital, and 3) dynamic adjustments.

New tariffs are expected to be determined towards the 4Q 2018. They will become effective in 2019.

#### **III. Transition process**

On July 1, Presidential elections were held in Mexico.

CFECapital works with CFE and the transition team.

CFE has extensive investment needs and a financial balance target.
CFE Fibra E is a way to deploy new investments.



### **CONTACT**

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