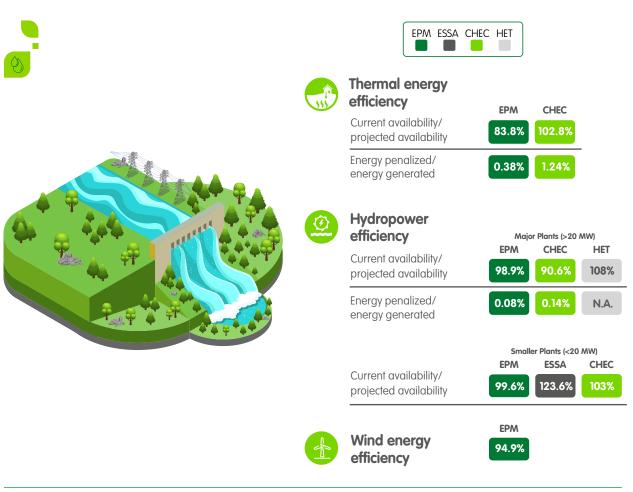


#### **Energy**

Grupo EPM 2021

# **Power Generation Efficiency Indicators**



Source: Energy Generation Business Unit





#### **Power Generation Mix**

Type of source		Generation system		Net production (GWh) 2021		Net effective capacity (MW)			
						2021		Projection 2024	
		Grupo EPM	EPM	Grupo EPM	EPM	Grupo EPM	EPM	Grupo EPM	EPM
Wind		1	1	60	60	18	18	0	0
Solar		0	0	0	0	0	0	83	83
Distributed generation (Solar)		6	6	1	1	3	3	24	24
Thermal	Greater than 20 MW	2	1	1.342	1.294	397	353	399	353
	Less than 20 MW (Self-generation)	1	0	2	0	5	0	5	0
Hydraulics	Greater than 20 MW	11	8	13.639	13.141	2.887	2.690	5.158	4.919
	Less than 20 MW	25	18	728	492	171	129		
	Total hydraulics	36	26	14.367	13.633	3.058	2.819		
Total		46	34	15.774	14.988	3.481	3.193	5.669	5.379

**Source:** Energy Generation Business Unit





# Installed energy transmission and distribution capacity 2021







**Universal service - Colombia** 

6,481,986

Total customers

97.17%

Service coverage (%)



Coverage of the service - Other countries

(El Salvador, Guatemala y Panamá)

2,337,805

Total customers

93.83%

Service coverage (%)



Transmission networks and electric power distribution (km)

294,565

98,745



Power distribution and transmission transformers

413,699

146,644



Substation transformation capacity (MVA)

24,101

8,760

**Source:** Energy Transmission & Distribution Business Unit and Commercial Business Unitl





# Electric power transmission and distribution networks Grupo EPM 2021 (in kilometers)

1,081
5,403
8,398
135,222
144,164
294,565
3 79 16

Source: Energy Transmission and Distribution Business Unit



Classification according to international standards based on RETIE standard NTC 1340. The length of the lines is according to the guidelines developed internally for cable measurement in the field.

# Electric power transmission and distribution networks Grupo EPM 2021 (in kilometers)

Tension level	Area	Subway	Total
National Transmission System (STN) (Voltage ≥ 220 kV)	1,075	6	1,081
Level 4: Regional Transmission System (RTS) (57.5 kV ≤ Voltage < 220 kV)	1,641	0	1,641
Level 3: Local Distribution System (LDS) (30 kV ≤ voltage < 57.5 kV)	2,312	17	2,329
Level 2: Local Distribution System (LDS) (1 kV ≤ Voltage < 30 kV)	48,967	1,008	49,975
Level 1: Local Distribution System (LDS) (Voltage < 1 kV)	41,340	2,378	43,718
Total kilometers	95,336	3,409	98,745
Source: Energy Transmission and Distribution Rusiness Unit			

Source: Energy Transmission and Distribution Business Unit



Classification according to CREG Resolution 025 of 1995 and CREG 097 of 2008. Level 4 (STR) is remunerated in the distribution business together with levels 1, 2 and 3. Line lengths are determined according to the internally developed guide for cable measurement in the field.





### **Energy service detail by company 2021**

0000°	Total customers	2,662,104
epm	Universalization (%)	97.29
chac	Total customers	525,420
chec	Universalization (%)	99.44
	Total customers	208,053
edeq	Universalization (%)	99.18
A	Total customers	572,573
CENS	Universalization (%)	93.95
ECCA	Total customers	873,216
ESSA	Universalization (%)	97.00
	Total customers	1,640,620
afinia	Universalization (%)	96.96
Service	Coverage - Other Countries	
	Total customers	426,187
DELSUR	Service coverage (%)	95.00
ENSD	Total customers	510,293
ENSCI	Service coverage (%)	87.70
epm®	Total customers	1,401,325
Guatemala	Service coverage (%)	98.78
Total customers		8,819,791



**Total customers:** includes homes or facilities that enjoy residential public service and those that are without service due to non-payment.





#### **Water and Sanitation**

Grupo EPM 2021

# Indicators of installed water capacity





#### **Installed capacity**

Drinkable water treatment plants

39

Primary distribution networks (km)

540

**Water distribution** 

309

Drinkable water treatment capacity (m³/s) 20.29

15.46

Secondary distribution networks (km)

6,063 4,009



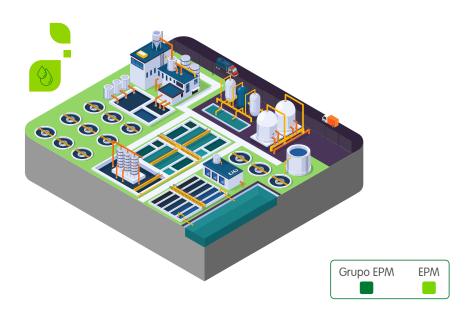
**Drinkable water** net production

393 300





# Indicators of installed sanitation capacity





Wastewater treatment plants

22

4

Wastewater treatment capacity (m³/s)

11.97

2.01

# Collection and transportation

Transportation networks (km)

730

416

Transportation networks (secondary) (km)

5,809

4,493



Tons transported

687,252

Tons entered at La Pradera for final disposition

1,239,701

Leachate treatment plants

1

Leachate treated (m³)

351,940

# ÖÖ

Treated water in wastewater plants

(million m<sup>3</sup>)

296

60

**Source:** Water and Sanitation Business Unit





### Water and Sanitation service detail by company 2021

Company		Aqueduct	Sewer	Cleaning
<b>ACCO</b> ®	Total customers	1,362,502	1,341,700	N.A.
epm	Universalization (%)	98.05	96.11	N.A.
	Total customers	6,147	6,078	N.A.
Aguas del Oriente	Universalization (%)	100	100	N.A.
aguas	Total customers	105,076	83,555	N.A.
regionales	Universalization (%)	93.05	76.08	N.A.
0	Total customers	24,939	22,883	N.A.
Aguas de Malambo	Universalization (%)	93.79	81.29	N.A.
	Total customers	N.A.	N.A.	906,667
em <b>v</b> arias°	Universalization (%)	N.A.	N.A.	99.29
	Total customers	184,055	183,132	N.A.
aguas antofagasta	Universalization (%)	100	100	N.A.
⊭idrosur	Total customers	1	N.A.	N.A.
Total customers		1,682,720	1,637,348	960,667
Universalization		97.63	94.95	99.29
Source: Water ar	nd Sanitation Business	Unit 		



TICSA has no direct customers, but indirectly serves 2,365,560 customers (population covered) through the operation of 11 wastewater treatment plants.





#### Gas

Grupo EPM 2021

# **Installed Capacity for gas**

# EPM gas service coverage





Measuring, regulating and decompression stations



Compressor station (2,000 m³/h)



Polyethylene networks Antioquia (km)

8,539



Total customers\*



Universalization of service (%)

85.94%



\* Total customers:

eriod customers:
It counts the homes or facilities that
enjoy the domiciliary public service
and those that are without service
due to lack of payment.

26

98

.. .

64

Regulating and measuring stations

Decompressor stations

Reception and dispatch stations (City Gate))

Source: Gas Business Unit

