Changes of Distribution Operations Around The World

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Enel Group







Inno Jation

Dialogue

Challenges for a Sustainable DSO

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Grids expansion and empowerment for guaranteeing an affordable electrification

Different regulatory models

Price Cap, Revenue Cap, Cost Plus

Tariff reviews expertise

Negotiations: WACC, Totex, Losses/Quality/Collection Targets, Digitalization, Reg. Assets recognitions

Reg.

rience

Digitalization and technological know-how /expertise as decarbonization enablers



National/local institutions

75*M* Customers

Stakeholders & local ecosystem



Pillars for a Sustainable DSO – 2040 Net zero



Value Creation for all in energy sector



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More efficient tariffs



Colombia and Goiás experiences

Some KPIs improvement trend







Goiás & São Paulo Results





✓ Quality + Efficiency + Tech

Better service and lower OPEX for Customers





Spaghetti?

What does the cat in the picture mean?

ENEL losses track record examples in Latam

Losses reduction trend in the first 4 years period after privatization



Weighted average losses trend >37% in the first 4 years after privatization thanks to inspections, normalization and armouring

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A Winner Project

Ecoenel program - Brazil

Exchange of your garbage



In Brazil since 2007:

- > 70 Thousand tons of garbage
- > 3 Millions USD in bônus for clients
- > 650 Thousand customers benefited
- ~120kg of garbage to zero light bill*





One of the

ten winners of the United Nations **Organization (UNO)** award, among the world's 20 most relevant ones

Transforming garbage into opportunities

*Depending on the type of garbage, tariff and the consumption of the client

Possible Approach for Success

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1. Public-private partnership

5. Involving the community from the beginning



2. Subsidies divided between the utility, government and client

4. Sustainable Funds with patient approach

3. Ten years of stable rules

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INTERNAL

Energy access



service

Losses reduction

Tariff reduction





accelerating your electric future

Gridspertise was born out of Enel's long-term experience in digitalizing its distribution grids

Since inception, Gridspertise has evolved into a holistic solutions provider enabling DSOs globally to digitize and transform their operations

OUR VISION

Deliver a new era of sustainable and reliable smart grids

OUR MISSION

Upgrade grid users' experience through cutting edge sustainable solutions for the digitalization of electricity distribution networks



Gridspertise end-to-end platform solutions empower DSOs transition to future grid enabling full edge potential



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Thank you

Back up

Coleção Energia for a rebirth of old uniforms

A Brasilian project orginised a fashion show inside the favela of Paraisòpolis, giving a new life to the old uniforms while creating job opportunities for local community with online shop.







73 Local Job Opportunities with an **income generation** (66.128 R\$)



Empowering Women in vulnerable conditions in favela of Paraisòpolis



14 positive press media with 1.7 Million in media valuation



Second life to more than 5.000 uniforms



Enlarging ecosystem through collaboration with associations and ONG

Fundación Pachacútec

Proyecto CSV – Carrera de Electricidad Industrial



COMPROMETIDOS CON LA EDUCACIÓN DE CALIDAD



20 hombres y mujeres de nuestra equipo participan como docentes voluntarios en el instituto Pachacútec compartiendo sus conocimientos a estudiantes de Electricidad Industrial.





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Quality education

Description

Training young people who will work in the future in the company or in our value chain, mainly in the quality of service and safety

Partner

IES Privado Nuevo Pachacútec

Benefited

From 2006 to 2020, 310 students successfully completed their studies.

Main results

92% job placement, including women

"Luz para Todos" program Brazil

 Public measures to bring electrification to remote areas, with tariffs subsidized by the governments and distributors

>15 Million people beneficiated in the country





Huertos en redes

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Redesigning assets enabling land collective management through horticultural development

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Substation Compartir Colombia

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SOCIO-ECONOMIC CONTEXT

- The south of Bogotá and the municipality of Soacha had a fast population growth: from 40k to 500k in last 30yrs (DANE)
- High migration to the municipality as a result of the armed conflict, displacement, search for opportunities, residence at a lower cost and close to the capital of the Country.

SUSTAINABILITY PLAN

Reforesting Soacha and Street art valorization

More than **700 plants** planted and **decoration of substation Compartir** with local art

2 JAC* strengthening

14 training sessions on politics, organizational management, project formulation

3 Photovoltaic System Lighting

8 poles and led lights (Danube) + 10 led lights and 38 lights switch (Tejares)

▲ Solid waste management

More than 2,500 kg of wood transformed into 743 pieces of furniture

*JAC = Juntas de Accion Comunal (non-profit organizations made up of residents)

