



Sustainability in EDP Brasil
PEDRO SIRGADO

EDP no Brasil

Presença no território brasileiro em 2016

1 EDP Espírito Santo

9.923 GWh energia distribuída
1,5 milhões clientes

2 EDP São Paulo

14.502 GWh energia distribuída
1,8 milhões clientes

Geração (Capacidade Instalada por Região)

186,70 MW 3 AP/PA - UHE Santo Antônio do Jari
109,50 MW 4 AP - UHE Cachoeira Caldeirão
720,27 MW 5 CE - UTE Pecém
1.401,25 MW 6 TO - UHE Luís Eduardo Magalhães e UHE Peixe Angical
231,00 MW 7 MT/PA - UHE São Manoel (em construção 83,4%)
328,54 MW 8 ES - 2 UHEs e 7 PCHs
16,00 MW 9 MS - PCH Costa Rica

10 Comercialização (Sede em SP)

272 clientes
12.980 GWh energia vendida

11 Soluções em Energia (Localizada no RS)

45 GWh energia economizada em seus clientes



4 MAJOR ACHIEVEMENTS

1 PRE-2020 AMBITION

- Doha Amendments do the Kyoto Protocol
- Letter to parties
- New information before 1st May 2018
- Stocktake 2019

2 TALANOA DIALOGUES

- Where we are?
- Where do we want to go?
- How do we get there?

3 PHASING-OUT COAL

- Canada and UK leadership
- 20 countries, US states
- 2030 in OECD countries
- 2050 rest of the world

4 FINANCE

- Assure stable flow of money
- Help developing countries
 - Adapt
 - Move towards renewable energy

JUST RETURNED FROM COP23



Powering Past Coal Alliance:

Declaration

In 2015, the world gathered in Paris and committed to taking action to spur clean growth and avoid catastrophic climate change.

Today, coal-fired power plants produce almost 40 percent of global electricity, making carbon pollution from coal a leading contributor to climate change.

The health effects of air pollution from burning coal, including respiratory diseases and premature deaths, impose massive costs in both human and economic terms. A recent analysis found that more than 800 000 people around the world die each year from the pollution generated by burning coal.

As a result, phasing out traditional coal power is one of the most important steps governments can take to tackle climate change and meet our commitment to keep global temperature increase well below 2 °C and pursue efforts to limit it to 1.5 °C.

To meet the Paris Agreement, the analysis shows that coal phase-out is needed by no later than 2030, in countries that are part of the Organisation for Economic Co-operation and Development and the European Union, and by no later than 2050, in the rest of the world.

The cost of generating electricity from wind and solar power has plummeted: clean power is the low-cost option in a growing number of jurisdictions worldwide. Global investments in new renewable power now significantly surpass investments in new coal-fired electricity, and clean growth represents an opportunity worth trillions of dollars.

Countries moving toward low-carbon, climate-resilient economies are already seeing environmental, economic, and human-health benefits. Our coalition wants to help accelerate that transition.

The Powering Past Coal Alliance brings together a diverse range of governments, businesses, and organizations, which are **united in taking action to accelerate clean growth and climate protection through the rapid phase-out of traditional coal power**. We commit to achieving that phase-out in a sustainable and economically inclusive way, while providing appropriate support for workers and communities.

More specifically

- **Government partners commit** to phasing out existing traditional coal power and placing a moratorium on any new traditional coal power stations without operational carbon capture and storage, within our jurisdictions.
- **Business and other non-government partners commit** to powering their operations without coal.
- **All partners commit** to supporting clean power through their policies (whether public or corporate, as appropriate) and investments and restricting financing for traditional coal power stations without operational carbon capture and storage.

To support these goals, the partners in the Powering Past Coal Alliance will work together to share real-world examples and best practices to support the phase-out of coal, including through climate financing, and adopt practical initiatives that support this transition, including developing clean-energy plans and targets.

We will also encourage our peers to join us in powering past coal to build a better world for our children and grandchildren.

As founding partners, we will work to grow the alliance to 50 partners by the 24th session of the Conference of the Parties to continue the momentum towards a safer climate, healthier people, and a cleaner economy.

SOME INTERESSANT INFORMATION



CAPITAL INFRAESTRUTURA

- **74%** renewable energy
- **1.200 km** new transmission lines (ES, MA, SP, MG, SC e RS)



CAPITAL NATURAL

UTE Pecém represents:

- **99%** of water consumption
- **94%** GEE emissions
- **80%** non hazard waste



CAPITAL INTELECTUAL

- **150** participants in EDP Starter
- **R\$ 12,3** MM in R&D



CAPITAL SOCIAL E RELACIONAMENTO

- **3,3** MM clients
- **75** strategic suppliers audited in sustainability
- **R\$ 14,9** MM in 30 social projects



CAPITAL FINANCEIRO

- **R\$ 8,8 bi** in revenues



CAPITAL HUMANO

- **2.927** edp workforce
- **12.783** suppliers workforce
- **0** accidents in 2016

SUSTAINABILITY DRIVERS

Human Development: includes diversity, culture, salary and development.

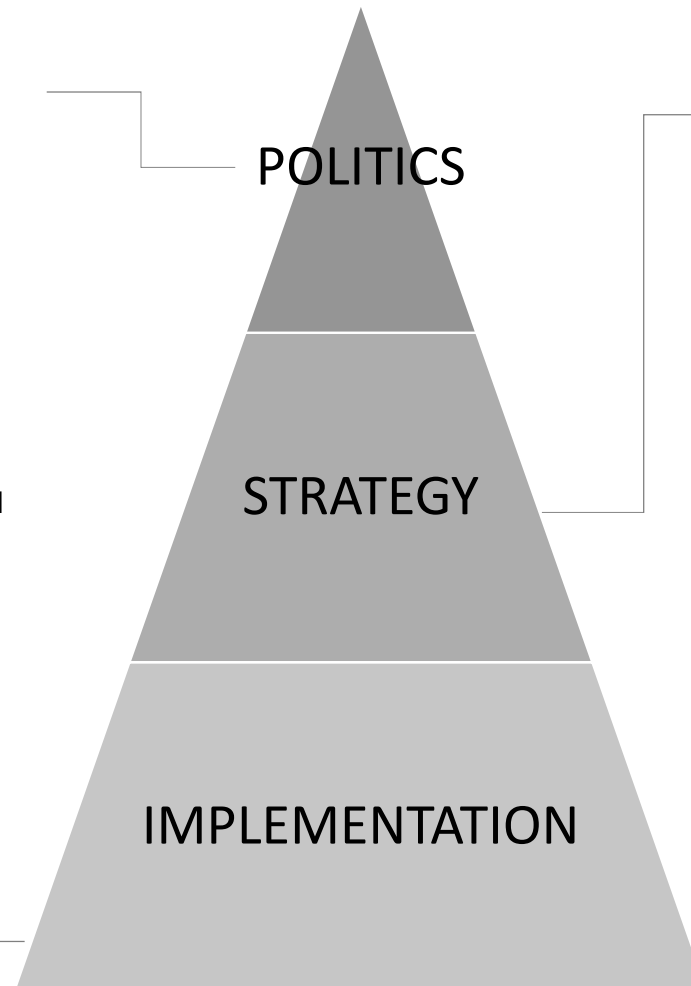
Innovation and Sustainability: includes environment, health & safety, climate change and innovation.

Business Risk: includes risk management, Compliance, internal audit and communication.

Stakeholders Relationships: includes unlawful acts, human and labor rights, social investment and suppliers management.

Business Management: includes planning, management and organizational structure.

Governance structure, process, activities, etc.



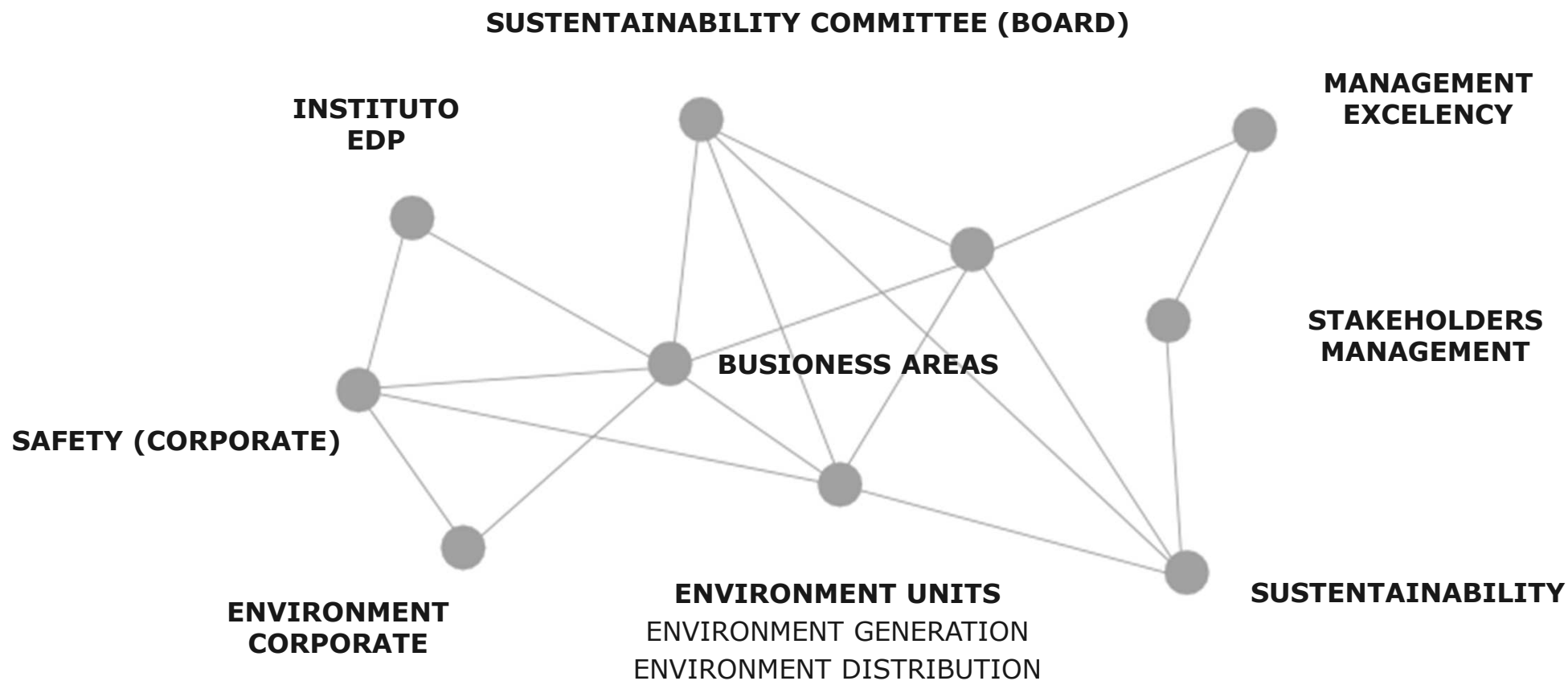
Goals with purpose: linked with our performance in Bovespa Sustainability Index.

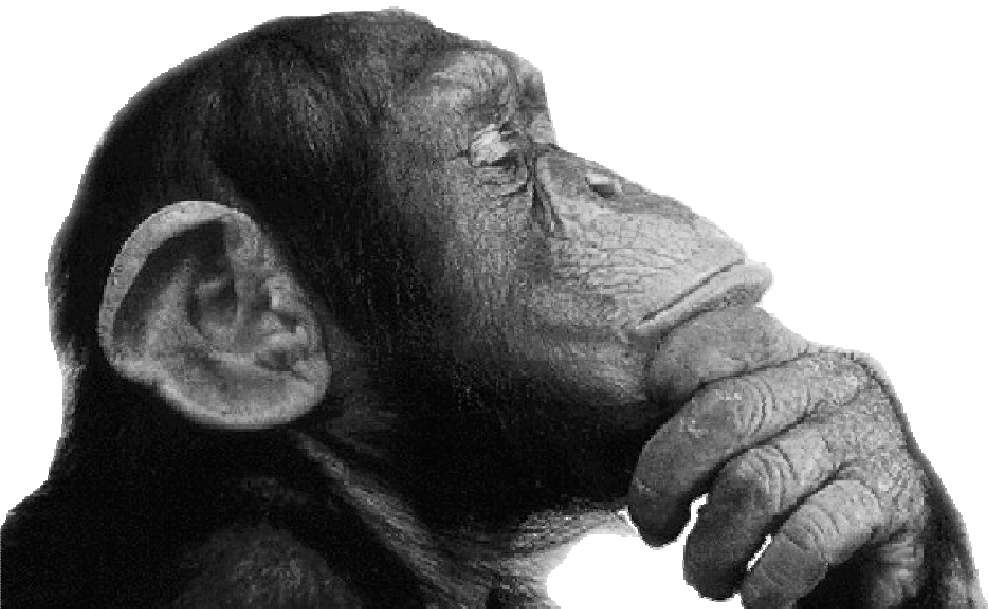


Sustainability Global Goals (EDP 2020): includes our compromise with the SDGs.



IMPLEMENTATION & GOVERNANCE





**SUSTAINABLE
DEVELOPMENT GOALS**

?

SDGs



WHY ODS

REINFORCES OUR REPUTATION

Because it clarifies the company's position in sustainability, motivating the involvement and trust of stakeholders

NEED FOR ENTERPRISE INVOLVEMENT

International consensus that the success of ODS depends not only on governments but also on corporate involvement.

HIGH ADHERENCE OF EDP'S PRINCIPLES AND VISION TO ODS

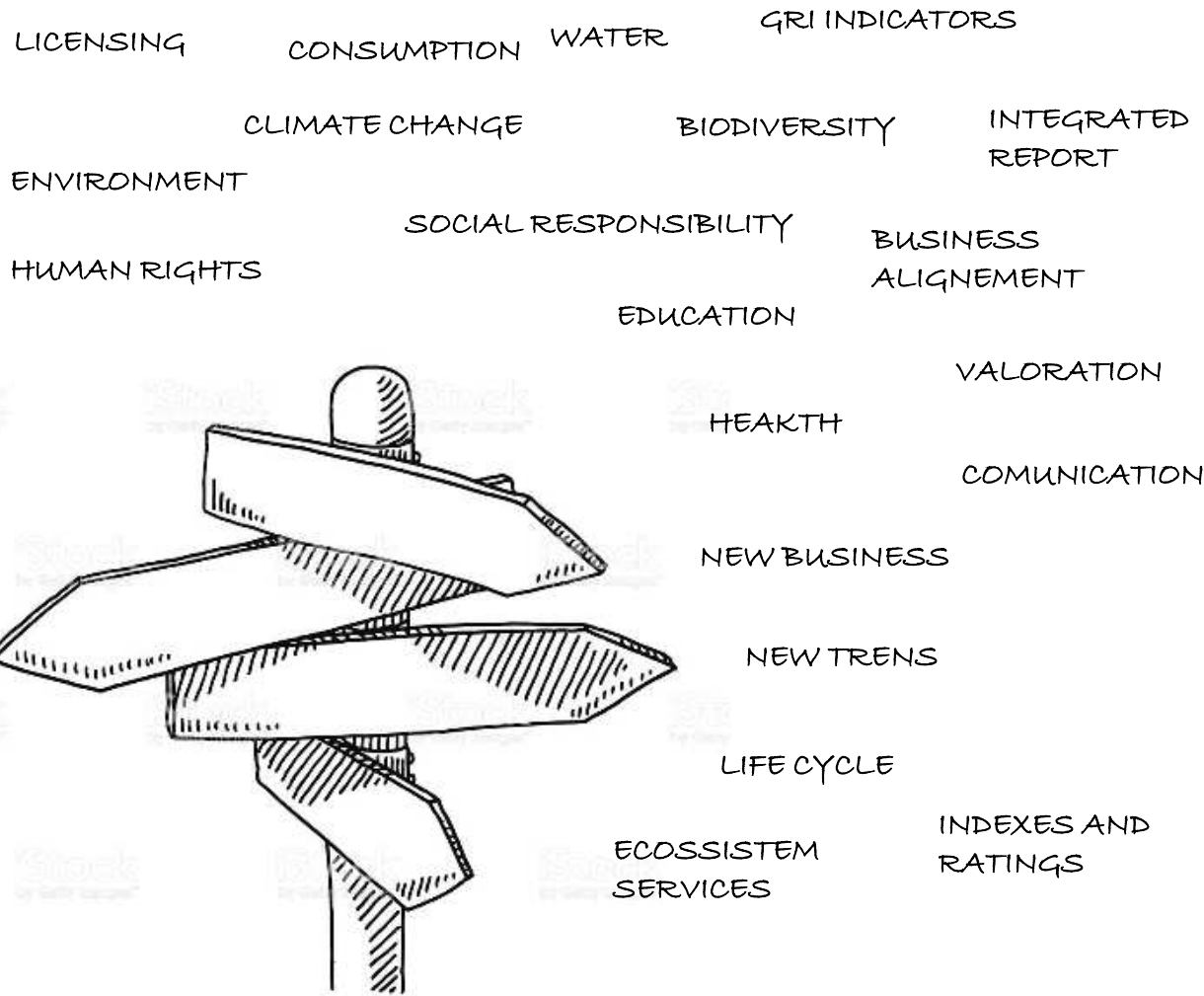
EDP has selected 8 principles in which we believe we can make a difference.

CREATES THE CONTEXT OF OPPORTUNITIES

Business and partnerships around a common language.



THE EXISTENTIAL CRISIS OF SUSTAINABILITY



- ✓ **FOCUS**
- ✓ **COMUNICATION**
- ✓ **RECOGNITION**

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HOW TO HAVE...
FOCUS, WITHOUT BEING MINIMALIST
SIMPLE COMMUNICATION WITHOUT BEING SIMPLE
RECOGNITION WITHOUT BEING GREENWASH

POR QUE ODS & ISE



EMBRACING

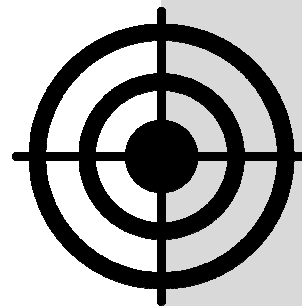
ALIGNMENT WITH PRINCIPLES

ALIGNMENT WITH TRENDS

THINK GLOBAL X ACT LOCAL

COMMUNICATION "UNIVERSAL"

EXTERNAL



TRANSVERSAL

MEASURABLE

COMPARABLE

CREDIBILITY

INTERNAL



EDP apresenta estratégia de combate às alterações climáticas nas Nações Unidas

DOMINGO 27, SETEMBRO 2015

▶ GRUPO EDP

▶ SUSTENTABILIDADE

A EDP vai ajudar a executar os novos Objetivos de Desenvolvimento Sustentável aprovados na Cimeira das Nações Unidas, a decorrer em Nova Iorque.

António Mexia, presidente executivo da EDP, convidado a participar numa das sessões, o United Nations Private Sector Forum, apresentou os compromissos da empresa para combater as alterações climáticas, um dos 17 objetivos que vêm agora substituir os 8 Objetivos do Milénio concluídos este ano.



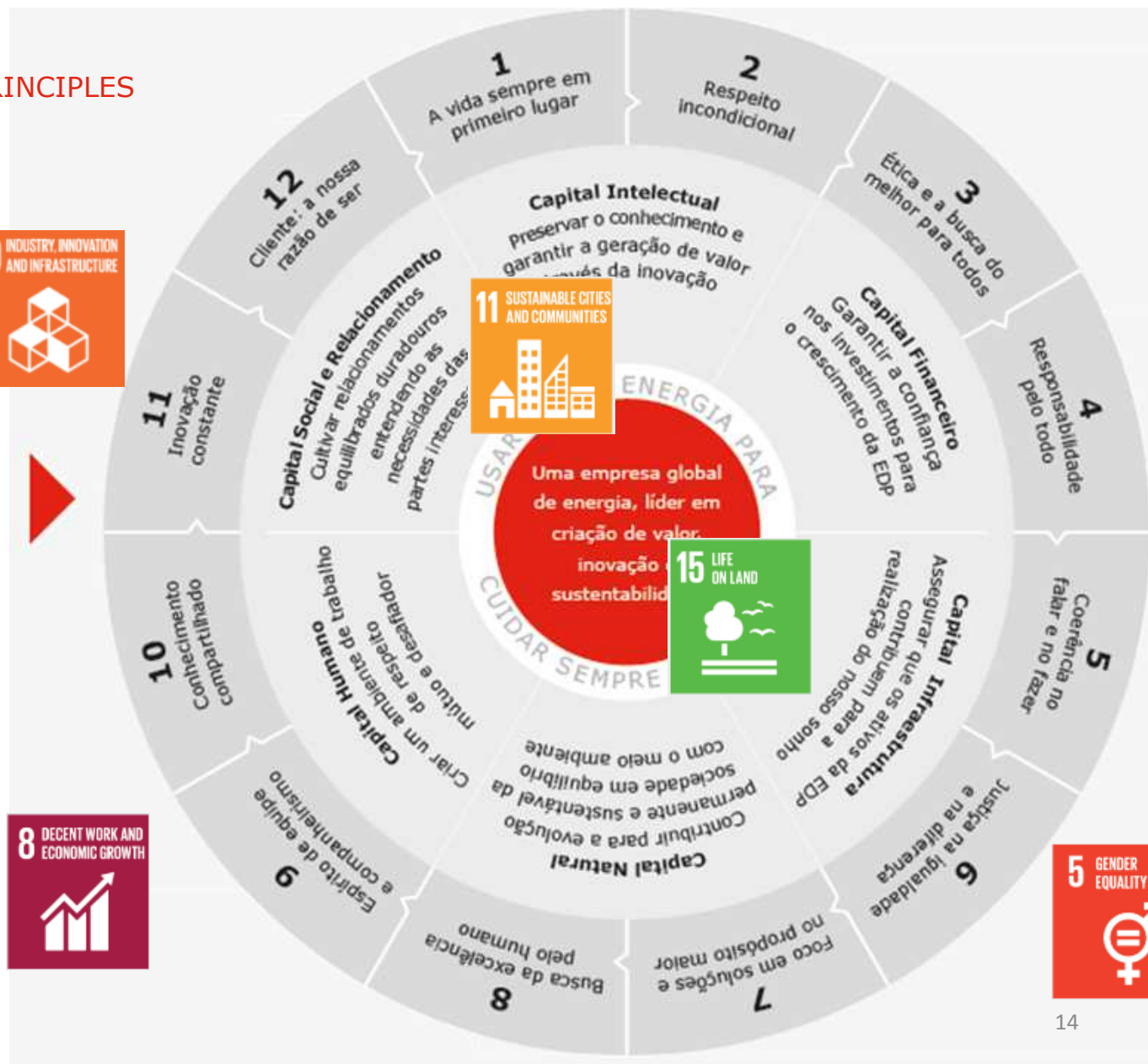
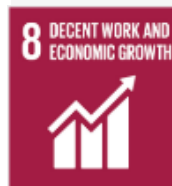
ADHERENCE TO TRENDS AND PRINCIPLES



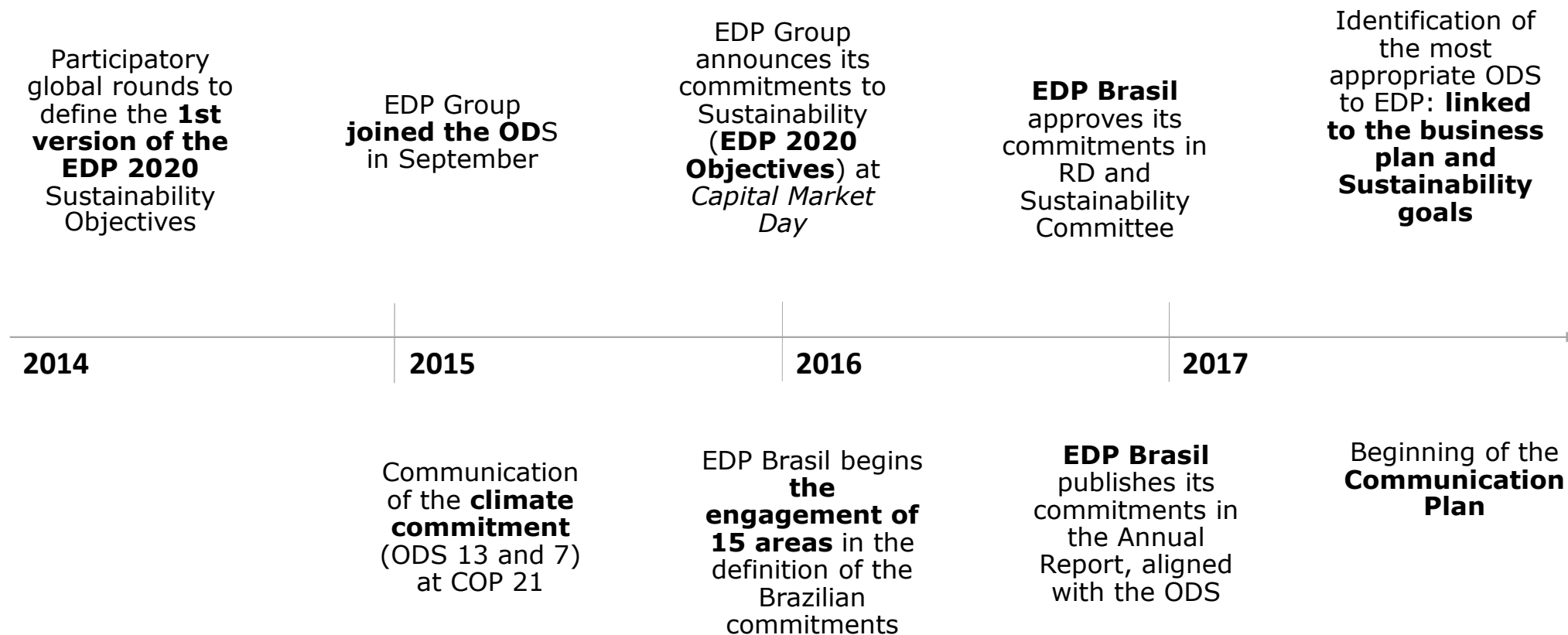
Mega Trends

- Demand for clean energy
- Demand for innovative services
- Energy Efficiency
- Water scarcity
- Delinquency
- Market liberalization
- Climate changes
- Energy Price
- Economic Retraction

- *Visão da EDP*
- *Objetivos dos capitais alinhados com as metas com propósito*
- *Princípios EDP*



TIME LINE



To contribute to the global goals, EDP Brasil has made its own commitments until 2020:

Create Economic Value



- Limit the use of **coal by 25%** in energy generation and promote projects to **reduce CO2 emissions**
- Provide **energy efficiency** products and services to reduce the consumption of **100 GWh** of energy in the customer
- Investing **R\$ 100 million** in telemetry
- Invest **R\$ 100 million** in innovative projects

Develop our people



- Maintain levels of **employee engagement > 75%**
- Promote **diversity**, ensuring equal access in hiring processes
- Achieve **100% health and safety certification**

Managing environmental and climate issues



- Achieve **100% environmental certification**
- Internalize the concept of **circular economy** and promote energy efficiency in buildings
- Measure **environmental externalities** in EDP related to priority ecosystem services

Improve Confidence



- keep EDP as one of the most **Ethical Companies** in Brazil (Pro-Ethical Certification)
- Achieve **> 80% customer satisfaction**
- Implement periodic **consultation mechanisms with stakeholders**
- Invest R\$ 50 million to **promote social business and sustainable lifestyle initiatives**

15 VIDA SOBRE A TERRA



EDP Commitment: Internalize the concept of circular economy and promote energy efficiency in buildings

CONTAINER AGENCY PROJECT: CANAS AND SANTA BRANCA

1ª company in Brazil to inaugurate a Container Agency

- Use of materials with FSC® Forest Certification.
- Same standard of quality, comfort and accessibility.
- Decrease of waste disposal: containers (which would go to landfills) and construction waste.
- Reduction of up to 50% in the use of water in the finish
- Use of recycled tires on the floor.
- Energy efficiency by using 100% LED lighting.
- Approximately 12% reduction in emissions in construction compared to conventional construction.
- Reducing soil interference and land disposal.

edp



EDP COMMITMENT: PROMOTING PROJECTS TO REDUCE CO2 EMISSIONS

STRATEGIC CLIMATE PLANNING AND SUPPORT FOR REDUCTION AND CONSERVATION PROJECTS

- 5.6MM tCO2e emitted
- 11 identified mitigation measures that will reduce 32k tCO2
- Setting goals
- 8,000 tCO2 offset by purchase of carbon credits from the REDD Project (Reduction of Emissions from Deforestation and Forest Degradation) in the surroundings of the Santo Antônio do Jari Plant.
- Initiative helps to conserve 220mil ha, avoid the emission of 3.5million tCO2e and increase the income for local communities through agro-extractive production.
- Carbon Pricing Study





EDP COMMITMENT: REDUCE THE CONSUMPTION OF 100 GWH OF ENERGY IN THE CUSTOMER

EDP SOLUTIONS AND EDP ENERGIA: NEW BUSINESSES & CUSTOMER AWARENESS

- 45 GWh energy saved in its customers through energy solutions projects.
- 18 GWh of energy saved in final customers through Energy Efficiency.
- Clients' awareness about ODS 12 in the three main EDP agencies (Mogi, São José dos Campos and Serra) on children's day.





NEXT STEPS AND CHALLENGES

ENGAGEMENT

Internal and external communication of ODS, in particular for employees and clients.

COMMUNICATION

"Overlap" between ODS makes it difficult to associate some actions with a specific ODS. Using the ODS symbols is still a challenge for communication.

PARTNERSHIPS

Identification of partnership opportunities for the implementation of ODS



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