



5 YEARS AFTER
THE COP21

**YOUNG PEOPLE & COMPANIES
ON THE FRONT LINE**

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*Based on a comparison of the production capacities of solar energy in France (31/12/2017)
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A WORD FROM THE PUBLICATION DIRECTOR —



NAFISSA GOUPIL

COP21, 5 YEARS LATER: COMPANIES ARE SPEEDING UP

At the 2015 COP21, 195 countries signed the Paris Agreement. The text was described as historic: it was the first universal and legally binding climate agreement.

At that time, many companies made formal commitments. In 2020, five years later, where do they stand?

With this Agreement close to falling apart and with the failure of COP25, aren't they tempted to seize the opportunity to slip away? Quite the opposite! Companies are maintaining their commitments, if not reinforcing them, and are increasing the pace. Since States are incapable of reacting, it seems that companies are now assuming the responsibility for the global policy of the world - that is to say the future.

They are both supported and pushed in this direction, by young people, who refuse to give up, and by start-ups, who challenge them in their field and who put their practices and economic models to the test.

In this special issue, Décisions durables reports the progress and commitments achieved since COP21. We thank Orange, Schneider Electric, Egis, Bouygues Construction, Epson and Engie for their support and confidence in our project.

All the datas, photos and figures in this special issue are non-confidential: they are part of the public domain and most of them are given to us by companies. No responsibility is accepted for their accuracy.

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www.decisionsdurables.com

E-mail: info@decisionsdurables.com

Publication director: Nafissa Goupil
nafissa@decisionsdurables.com

Editor-in-Chief: Antoine Morlighem
antoine.morlighem@decisionsdurables.com

Artistic direction: Céline Pouit

Cover photography: Shutterstock®

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It's just an old phone.

An outdated old phone hidden in the depths of a drawer.

But that doesn't mean it's completely useless.

An old phone containing forgotten messages, blurred pictures and badly framed videos. But it's also plastic, a screen, and metals that could have a second life.

It's just an old phone.

But with 25 000 of these old phones, we could even create a new job.

That's why since 2010, Orange has collected 8 million phones and created 40 jobs.

Drop by one of our stores and help us to recycle the 100 million phones hiding in our drawers.

We all have great power.

We all have great responsibility.

bienvivreledigital.fr

Mobile recycling: non-recyclable materials treatments and recuperation of materials that can be reused. Orange looks after personal data deletion. Find out more on bienvivreledigital.fr

Brings you closer
to what matters





SUMMARY –

- 06** Keys to a post-carbon world
- 08** Young people take the floor
- 10** ORANGE puts the environment at the heart of the strategy
- 12** SCHNEIDER ELECTRIC invents the energy of the future generations
- 14** EGIS
“Getting in tune with, and becoming resilient to, the challenges of our time”
- 16** BOUYGUES CONSTRUCTION
CSR: a promising project!
- 18** EPSON
“Combining technological innovation and responsibility”
- 20** A Galaxy of promising solutions
- 22** Rose-May Lucotte, co-founder of ChangeNOW:
“It’s a deep movement”

KEYS TO A POST-CARBON WORLD

As the climate emergency becomes more pressing, and political inaction more and more shameful, we could (as some of the below elements would push us to), sink into defeatism. However, as you will see throughout the following pages, civil society is no longer waiting for world leaders to stop hemming and hawing. At the forefront are companies which, since COP21, have understood that they can only endure and thrive by changing the economic paradigm. Citizen pressure is growing stronger to encourage them to transition. And young people have leverage: they will not hesitate to put their talents at the service of a more committed competitor, in line with their convictions and values. Moreover, innovation is in full swing, and thousands of startups are coming up with new solutions every day that tomorrow will help get us out of the rut and lead us on the path to a post-carbon society.

But before exploring these reasons for hope, here are some reading keys and contextual elements, to set out the challenges at stake.

STUBBORN FIGURES

2019

concludes the **hottest decade** on record

In the TOP3

of the hottest years since 1850, after 2014 and 2018

10 MILLION people displaced

in the first half of 2019, of which 7 due to climate change A

+4°C to 5°C

temperature rise by the end of the century at the current rate

\$140 BILLION

cost of the 15 biggest climate disasters of 2019 according to the NGO Christian Aid

EXPERTS VS COP25

ANTONIO GUTERRES

United Nations Secretary General

"For many decades the human species has been at war with the planet, and now the planet is fighting back. We are confronted with a global climate crisis and the point of no return is no longer over the horizon, it is in sight and hurtling towards us."



EXPERTS FROM THE UNITED NATIONS ENVIRONMENT PROGRAM (UNEP)

in their latest report on greenhouse gas emissions



"Major societal and economic transformations need to take place in the next decade to make up for the inaction of the past."

CLÉMENT SÉNÉCHAL

Climate Campaign Manager for Greenpeace France

"The scientific evidence, the expectations of young people and the interest of the people were literally kicked out, like those representatives of civil society who were temporarily excluded from COP25 following a non-violent protest: an unprecedented case which illustrates the divorce between political decision-makers and the real world."



COMMITTED PLAYERS



A NEW MANIFESTO FOR COMPANIES

PASCAL DEMURGER

CEO of MAIF Group, author of "The company of the 21st century will be political, or it will not be".

"In my opinion, companies are not legitimate to propose or impose a model of social organisation, a vision for society. A corporation is neither a democracy nor a legitimate forum to structure the world of tomorrow. On the other hand, it has a real impact on the world because of its activities, all the more so if it is powerful. The political company, as I understand it, is one that is aware of this impact, is willing to reduce it, and ultimately to make it a positive impact."



A GREEN NEW DEAL

URSULA VON DER LEYEN

President of the European Commission.

"I want the European Green Deal to become Europe's hallmark. At the heart of it is our commitment to becoming the world's first climate-neutral continent is at the heart of the new Commission."



A CALL FROM YOUTH

EXCERPT FROM THE CALL FOR AN ECOLOGICAL AWAKENING,

signed by more than 30,000 french students, in particular students from top-ranking higher education establishments (grandes écoles) and universities

"As a student, I am conscious that climate change, the collapse of biodiversity, and the exhaustion of our natural resources will have a major impact on every aspect of our lives, and that the means currently implemented to face these challenges are insufficient. Through this call, I declare my refusal to let my professional work contribute to the acceleration of environmental and social crises. On the contrary, I wish to have a professional life that is consistent with the challenges of ecological emergency, by putting my work and energy at the service of projects that build a sustainable and socially just society. I call on my future employers to be agents for an ambitious ecological transition."



TECH FOR GOOD

A RISING TREND



In the face of increasingly revolting issues raised by the world of tech, such as accessibility, privacy, social and environmental impact, awareness is on the rise. On May 15, 2019, the second Tech for Good summit was held at the Élysée Palace. It brought together

80 executives from large companies, startups, associations and players in the global digital ecosystem to reflect on how technological innovation can work for the common good, on topics such as: access to education, diversity, work, social inclusion or environmental protection. This is a way for the field to revive its initial promises. We look forward to it.

YOUNG PEOPLE TAKE THE FLOOR



LAURA BELLOIS

Laura Bellois, founder of the association *Visages de jeunes* (Faces of Youth)

I started by getting involved in the municipal youth council of my city, Osny (near Paris). In high school, I joined the high school life council, for which I was vice-president for two years. This is where my commitment to the fight against climate change took shape. By mobilising each student, we were able to launch many initiatives: the installation of an educational vegetable garden, of beehives, of a henhouse,

“YOUTH ACTS, THEIR VOICES RISE”

as well as the introduction of recycling and compost... These simple, local actions not only raise awareness among young people on many issues, but also have a positive impact at the regional level. From these tangible projects, we moved to longer term actions, focusing on intergenerational relations, with the goal to initiate a conversation by bringing 4 generations of citizens together. For the past two years, I went on with my commitment within the Regional Youth Council of Île-de-France and in 2019, I created *Visages de jeunes* (Faces of Youth), an association, to highlight young people's actions at the local level. It's about smashing stereotypes about youth, either considered as a shapeless mass of lazy people, or

accused of not understanding the issue when taking action, and thus asked to let «grown-ups» solve the issue. However, while young people can sometimes seem to be absent from the climate conversation, especially at the political level, they nonetheless carry out daily actions, on their local level, without asking anything of anyone. Let's not forget that these young people in search of meaning are tomorrow's working population. If we want to avoid a brain (and skills) drain, all of civil society must initiate its transformation. Especially since political action is obviously bogged down at the international level. Youth acts, their voices rise: it's time to start listening to us.



“THE GREEN MOVEMENT IS ALSO ABOUT REINVENTING OUR DEMOCRACY”



CÔME GIRSCHIG

French youth representative at the United Nations Climate Summit and co-founder of JAC - Jeunes Ambassadeurs pour le Climat (Young Ambassadors for Climate)

The COP21 conference really kick-started of my commitment to the climate cause, which quickly gained ground in my studies with a Masters in environment and diplomacy at Sciences Po. I later got involved in NGOs and followed, as an observer, the negotiations of COP 23 and 24. In 2018, I became a young French delegate for climate and I created the association Young Ambassadors for Climate, before representing French youth at the United Nations Climate Summit in September 2019. By closely following these major international events, I became convinced that, while some politicians do try to get things moving, there will be no major and profound progress with

the current political class in charge. This is why civil society, and more particularly the youth, must act, by their vote or their commitment, to drive a paradigm shift. We can see that the movement is gaining importance, and that ecology can be a gateway for young people with a desire to express a political commitment. It just has to happen more often and more intensively. The collective *For an ecological awakening* saw, last November, 30,000 students and young graduates call their future employers to an ecological awakening. By refusing to put their skills at the service of companies that do not take into account the environmental emergency, they created a real

electroshock. We can, in the same way, influence the people who lead us. There is still time to change politics, for politics to save the world. To this end, the Citizen Climate Convention, which I cover as a citizen reporter, seems to be particularly ambitious and promising. The green movement is also about reinventing our democracy.



MAXIME BELLEC

Centrale Alumni, member of the association *Pour un réveil écologique* (For an ecological awakening)

I graduated from Centrale in 2016. Until then, I had followed a relatively traditional path and, like 99% of my class, had no particular awareness of sustainable development issues. It was only after my studies, and a long bicycle trip, that I was able to step back and that it started to mature in me. In 2018, I joined the small company *Tomorrow*, that developed electricitymap.org, a free and open

“FOR A BETTER TRAINING OF YOUNG PEOPLE ON THESE ISSUES”

website presenting the European energy mix in real time. Since then, I created my company doing freelance IT consulting, an activity that allows me to devote a significant part of my time (about 50%) to the associative world and to the ecological cause. As citizens, we have the ability to put pressure:

- on politicians, by casting our vote,
- on manufacturers, through our consumption,
- and on companies, by choosing an employer, a supplier, a client in line with our convictions, as *For an ecological awakening* group calls for.

Societal changes, in particular the most radical ones, are usually a very slow process. But since 2018 and the resignation of former Environment Minister Nicolas Hulot, I am under the

impression that something is brewing. We do not yet see concrete results, but the battle for public opinion is close to a win. For my part, I would like to get more involved in training young people. If I had been sensitised and educated to those issues earlier, I would probably have made different educational and career choices - and saved a lot of time. But I started acting on my ambitions: last November, I participated in climate training for all first- and second-year students of CentraleSupélec. As to the association *For an ecological awakening*, we were a little surprised by the success of our call, but we are starting to get structured and explore new ways to move businesses, especially on recruitment and training.



MATTHIEU BELLOIR

Orange Group Corporate Social Responsibility Director.

ORANGE PUTS THE ENVIRONMENT AT THE HEART OF THE STRATEGY

What has Orange already achieved in response to environmental challenges?

We have had an ambitious and structured environmental policy for quite some time now. The COP21 was a decisive turning point for announcing strong commitments, such as reducing CO₂ emissions by 50% per customer usage. An objective that we reached in 2018, two years ahead of schedule. This is the result of our Green ITN plan; an energy efficiency program that helped prevent the emission of almost 3 million tonnes of CO₂, particularly thanks to improvement solutions of our network's carbon footprint, such as the natural ventilation of our data centers and the use of renewable energy.

Thereby, in the Middle East and Africa (MEA) Region, we have over 3,000 solar sites and our three solar farms in Jordan allow more than 70% of our needs to be covered locally. We have also led major action plans on our buildings (35% reduction in emissions compared to 2006); we have the 1st leading company car sharing fleet in Europe (over 2,500 vehicles), we are developing the use of electric vehicles as well as soft mobility solutions and we reduced CO₂ emissions by 34% between 2006 and 2018, in this transportation item.

What are the major initiatives in Engage 2025 to combat climate change?

We are convinced that economic performance will no longer be possible without commitment to sustainability and that companies will also be judged on the basis of their actions undertaken for society and the planet.

Our environmental ambition lives up to our conviction. Our objective is to be net zero carbon in 2040, ten years ahead of the rest of the telco industry. We will pursue our efforts to optimise the emissions and consumption of our network and our involvement will be further pronounced in terms of circular economy. This is the continuation of the commitment made in 2015 to integrate these principles in our processes and business lines.

The results speak for themselves:

- Nearly 15 million mobile telephones collected to date,
- 87% of the 5 million Liveboxes produced annually are collected and recycled,
- The carbon footprint of the Livebox 5 is 29% lower than the previous version thanks to a smaller format, the use of recycled plastics and the reduced number of components,
- Marketing of the Fairphone since 2017, the first responsible smartphone.

But it's about going further.

What objectives have you set for yourselves?

By 2025, we are striving to achieve the following results:

- 20% second hand equipment in our networks,
- 0 plastic in our product packaging,
- Eco-design on 100% of our products, and
- Collection of 30% of the mobiles that we sell in Europe.

Over and above these concrete and quantified targets, it is a global change that we want to bring about, taking with us the whole of our ecosystem. Through the Joint Audit Cooperation (JAC), an international body that includes 17 major telecommunications players,

LIVEBOX 5: DOUBLE SPEED AND REDUCED CARBON FOOTPRINT

Orange improved production to reduce the carbon footprint of the new Livebox 5 by 29%:

- a 100% recycled plastic case,
- a lighter and more compact product,
- fewer electronic components, which makes it easier to repair and recycle,
- a new design allowing passive ventilation, without a fan.



we encourage our suppliers to adopt the principles of the circular economy and CSR to which our customers and investors are increasingly sensitive. And we are making significant progress. It is a fundamental shift, which represents an opportunity to innovate and reinvent all or part of our business model. It is essential to fully embrace the challenges in order to remain a step ahead.

And what about the impact of digital technology on the environment?

As our CEO, Stéphane Richard, has said, “*digital technology is a small part of the problem and a big part of the solution*”. The most recent studies estimate that digital technology represents 3.5% of the global CO₂ emissions. The rapid growth in the use of digital technology has caused concerns, but it is possible to mitigate its impact.

1. When the operators increase their efforts, emissions can be controlled. For example, the latest report by Arcep, the French regulator, shows that the increases in uses and users has not increased the industry’s emissions. They have even stabilised.

2. Digital technology is a formidable tool for helping companies to reduce their footprint. For example, at Orange, we have placed the head office of our African and Middle Eastern activities in Morocco, and to limit travel we have provided every subsidiary in this region with the same video-conference facilities. From the very first year, we expect to avoid almost 25% of the trips.

Is the environmental commitment of companies becoming a way to appeal to future recruits?

We are fully aware that these issues are becoming increasingly important, especially for younger generations. We were one of the first companies to respond to the appeal made in the student manifesto *Pour un réveil écologique* (“ecological wake up call”). Our answers are made available online. We must listen to these future talents, understand their point of view, show them that we are trying to address their societal and environmental concerns. At Orange, we are doing this in all transparency, because we believe in what we are doing and in the relevance of our actions.

Indeed, in our Climate Change 2019 report, we obtained an A from the CDP¹ which puts us among the leaders of organisations that are limiting their impact on the climate.

Our responsibility also extends to our employees and customers to encourage them to adopt eco-responsible behaviour, such as recycling mobiles.

As our brand message states: we all have great powers – we all have great responsibilities!

1- Not for profit international organisation which encourages investors, businesses and towns and cities to take measures to build a truly sustainable economy by measuring and understanding their impact on the environment.

SCHNEIDER ELECTRIC INVENTS THE ENERGY OF THE FUTURE GENERATIONS

Schneider Electric relies on an innovation and partnership culture to provide its customers with solutions for the energy and digital transition, in order to deliver clean, safe and reliable energy. The Group spreads this philosophy among its entire ecosystem and its stakeholders, with one conviction: a net zero-carbon future in line with the 1.5°C target is possible. Forthcoming innovations will be key.

As a worldwide leader in energy management and industrial automation, Schneider Electric is leading the energy transition. At COP25, the Group reaffirmed its ambition to be a role model in the fight against climate change. This commitment is embodied in the objectives that the Group outlined during last September's Climate Week, as part of the *"Business Ambition for 1.5°C - Our only future"* initiative:

- engaging with suppliers towards a net-zero supply chain by 2050
- achieving net-zero operational emissions and reduce scope 3 emissions by 35% by 2030 (vs 2017),
- being carbon neutral in its operations by offsetting remaining emissions no later than 2025
- reaching by 2025 – 5 years in advance – it COP21 goal of carbon neutrality in its expanded ecosystem, by delivering more CO₂ savings to its customers than its carbon footprint. To measure progress, Schneider Electric implemented a new indicator in 2018 allowing to quantify its customers' CO₂ savings. This year, over 80 million tonnes of CO₂ emissions were saved. By defining itself as the most integrated of the global groups, and the most local of the global companies, the Group is working on a proximity strategy by being, for example, industrial everywhere while building a global and digital technological offer in order to meet the challenges of sustainable development.

Global strategy

In order to integrate the challenges of sustainable development in a comprehensive, collaborative and cross-functional manner, Schneider Electric deploys products and solutions to enable its customers to combine economic performance and sustainable development, such as:

- EcoStruxure™, a unique architecture and platform to improve its customers' energy efficiency and management;
- the Green Premium™ program, with aims to bring more environmental added value by sticking as closely as possible to the specific features of each market segment;

- EcoDesign Way™, which allows to consider each new offer from a circularity perspective;
 - Energy & Sustainability Services, partnerships to support its customers with their carbon strategy, in more than 100 countries.
- But the stake is not only energy. This is why Schneider Electric is also committed to a just transition, particularly in terms of gender and training.

The just transition

Schneider Electric has implemented a strict gender equality strategy, both in terms of salary and of representation of women in leadership positions: 21.6% of leaders are women, with a 30% target as early as 2020. At this date, the Group can assure that pay equity for men and women will be implemented globally. Schneider Electric also emphasises training, with programs dedicated to young people entering the

KEY FIGURES

236,491
(Q3 2019)

people trained in the energy business since 2015. This figure will be 1 million in 2025

7,08/10
(Q3 2019)

result of the Schneider Sustainability Impact

92%
(Q3 2019)

of the workforce works in countries implementing pay equity

+1300

autonomous electrification systems and solar micro-grids installed since 2015

SCHNEIDER SUSTAINABILITY IMPACT: ON THE ROAD TO THE SDGS

The United Nations Sustainable Development Goals is an action plan for businesses. With the Schneider Sustainability Impact, Schneider Electric can measure how it contributes to the 17 fundamental objectives.

▶ <https://youtu.be/SLzruxva1o0>



workforce, but also to disadvantaged populations in the DRC, India and Vietnam so that everyone can benefit from the economic and social benefits of the transition. *“Our goal is to create an ecosystem that will promote sustainable development in the energy sector, thanks to trained professionals and clean, simple solutions that everyone can use. The results on the ground are very encouraging. Each changed life is a victory. We will*

have trained 1 million people before 2025,” celebrates Gilles Vermot Desroches, Chief Sustainability Officer at Schneider Electric. The just transition is also about all the Group's actions to reduce energy poverty by 10% of Europeans and to find access to electricity solutions for more than a billion inhabitants of the planet who still have no access to electricity, in Africa and Asia.



QUESTIONS TO GILLES VERMOT DESROCHES

GILLES VERMOT DESROCHES

Chief Sustainability Officer at
Schneider Electric

Was COP21 an important moment in Schneider Electric's transition strategy?

While we did not wait for COP21 to act, it gave us a boost, for example with our 10 commitments to achieve carbon neutrality within 15 years.

Does the political blockage we observed at COP25 call for even stronger action by businesses?

This COP was certainly a failure, but it is just as undeniable that a dynamic is set in motion:

- the European Green Deal establishes the road map towards carbon neutrality,
- companies are acting today and now, as evidenced by the 177, including Schneider Electric, who have been in the 1.5°C SBTi scenario since Climate Week,

- innovations to build the solutions agenda are moving faster, from an incremental form to an exponential form of mobilisation,
- NGOs, cities and businesses are intensifying their dialogue to create a coalition for progress.

Beyond climate objectives, you insist on societal challenges. Are they two sides of the same coin?

Yes, the transition can only really take place if it is just. This is also the purpose of the United Nations Sustainable Development Goals.

Can we still hope for something from COP26?

It will be very important, because it is on this occasion that countries will have to raise their commitments. Let us hope that the increased efforts of companies, the European Green Deal, the quality of British diplomacy as well as the shock of procrastination of this COP25 will enable the essential significant progress that we are all waiting for.

EGIS

“GETTING IN TUNE WITH, AND BECOMING RESILIENT TO, THE CHALLENGES OF OUR TIME”



MARTINE JAURUYON

Chief Transformation & Sustainability Officer, member of the Executive Committee of the Egis group

Was COP21 a trigger point for Egis?

As a designer, specifier and operator in the field of transport infrastructure and buildings, Egis influences the delivery of tens of billions of euros in works and the operation of equipment borrowed by millions of citizens across the world. This gives us a special responsibility. COP21 was a wake-up call. Not so much on the issues, already well understood, but on the need to change gear.

How did it materialise?

At the start of 2018, we launched our “*Trajectoire 1.5°C by Egis*” approach, with two objectives:

- the development of a low-carbon engineering and operating offer at the service of our customers and the regions,
- the control of our internal ecological footprint.

This commitment was reinforced in 2019 by our Vision 2025 plan, which includes the fight against global warming as a first and cross-disciplinary priority of our development strategy focused on tomorrow’s transport/mobility and the sustainable city. It is within these projects that we have the strongest leverage for action. Our wide range of expertise allows us to tackle these challenges with the scientific rigour characteristic of our engineers.

Could you give us some examples?

The first challenge is to define, as far upstream as possible, the energy and carbon impact of a project’s technical variables in order to make the best choices in terms of construction and operation, in an eco-design approach. For example:



SEABOOST: BIOMIMETICS, ECOLOGICAL ENGINEERING AND 3D PRINTING FOR MARINE ECOSYSTEMS

Seaboot, a subsidiary of the Egis group, and the startup XtreeE have combined their unique skills in ecological engineering and large-scale concrete 3D printing to design, manufacture and immerse the first new generation artificial reefs. This should result in an extremely sophisticated porous architecture which contributes to the restoration of degraded marine habitats by providing alternative habitats for the different species to proliferate.

- in the road sector, we have developed Variways®, an eco-comparator of different routes to assess the overall carbon impact of a road infrastructure;
- in construction, we use digital prediction and simulation tools, but we also act on other levels, such as choices in the construction system or in materials such as wood.

Moreover, we are committed to exploring new business models. We must be proactive. Innovation is key: in 2019, we devoted almost €11 million in R&D on climate & biodiversity issues.



BRUNESEAU DISTRICT: ZERO-CARBON OBJECTIVE!

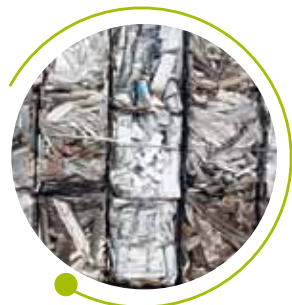
This area remained one of the largest wasteland in the South of Paris. Within five to six years, it will become the first low-carbon district in France. Comprising eleven buildings for a total of 100,000 m², the new Bruneseau district aims for social and functional diversity through buildings designed as vertical villages combining senior residences, student housing, social housing, shops and offices. Two thirds of the structural elements will be made of wood, the carbon footprint will be divided by five compared to the Parisian average and renewable energies will cover 65% of the energy needs.

What about your internal functioning?

We have defined an action plan to achieve carbon neutrality in 2050. Since 2012, we monitor the evolution of our emissions due to travel, to the energy consumption of our buildings but also to the storage of our data. Consolidation has been carried out to date on our subsidiaries headquartered in France: in 2018, Egis emissions were around 12,000 tonnes of CO₂ equivalent, an average of 3 TeqCO₂ per employee per year. This figure is improving year after year, and we are gradually extending our actions to all of our international sites.

What is the way forward?

Companies have a key role to play. Beyond handling the ecological footprint of their activities, they must deeply revisit their business models to assimilate the new economic logic that prefigures the post-carbon society. To ensure their durability, companies must get in tune with, and become resilient to, the challenges of our time. The challenge is significant, the transformations to be carried out are heavy, and the pressure of short-term economic imperatives are strong. But all these transformations at work are also a great opportunity to create long-term value and encourage our employees' commitment.



CYCLE UP: A CONCRETE CASE OF CIRCULAR ECONOMY

Materials represent 56% of the carbon impact of a building and 70% of waste generation in France. To improve this ratio, Egis and Icade created Cycle Up, an innovative marketplace to organise the meeting of supply and demand in re-use materials, by helping the industry stakeholders connect. A sort of Craigslist for materials, resulting in:

- savings in raw materials and waste,
- relocation of material supply,
- lower production costs and lower carbon impact of projects,
- and a booster for the social and solidarity economy!

BOUYGUES CONSTRUCTION CSR: A PROMISING PROJECT!



In June 2018, Bouygues Construction launched its new Sustainable Development strategy, called: *“Responsible and Committed”*. These two values are now at the heart of the Group’s overall strategy and more particularly embodied in the new TopSite label: a unique initiative aiming to assess 100% of the Group’s sites, both in France and abroad, according to demanding CSR criteria. Interview with Claire Boilley Forestier, Head of Sustainable Development at Bouygues Construction.

CLAIRE BOILLEY FORESTIER

Head of Sustainable Development at Bouygues Construction

How does the *“Responsible and Committed”* approach fit into the evolution of your CSR policy?

Our first sustainable development policy, Actitudes, was launched in 2007. It made it possible to unite our employees around the issue and to structure our internal processes. In 2016, we decided to go further, driven by the desire to no longer have a sustainable development policy. Let me explain. Today, CSR can no longer be one of the company’s strategies alongside major central policies, but must on the contrary be the common denominator, and mark the alignment of strategies towards a shared objective. This is the ambition behind *“Responsible and Committed”* and I firmly believe it is a sign of maturity from the company’s part regarding these issues.

What is TopSite?

Beyond vision, institutional commitment, objectives and indicators, CSR must have a concrete impact. In our business, this is possible on our operational sites. So we have created an internal label, which ensures that the challenges are properly broken down in an operational manner. It is an unprecedented approach that mobilises all of our employees, but also our customers, all over the world. Each of the Group’s projects over 6 months and €3 million must meet 16 qualifying criteria, covering 5 themes (Health - Safety, Environment, Social, Societal, Quality and Customer Involvement), as well as 2 bonuses for innovation and good practices. These standardisation efforts are quite a challenge, given our complex organisation, inherent to large companies, and the diversity of our businesses or local contexts.

What are the objectives?

Externally, it is a matter of promoting our CSR strategy in a concrete and operational way by giving guarantees of our performance to our customers, while engaging in a dialogue with them. Internally, it is an opportunity to create clear standards, common to everyone, everywhere we operate, but also to exchange feedback and good practices. More than a hundred sites are already TopSite certified at this time. Our goal is to have initiated the assessment process for 100% of our sites by the end of 2020. The first feedback from the field is very encouraging.

Do you notice a global awareness of the construction sector on these issues?

I have the feeling that a real shift is taking place, particularly in recent years, but this is true for society as a whole. Within construction, I think that CSR can be a chance to make a sectorial difference. If I could tomorrow share the TopSite label with other companies, it will be with pleasure. It is in our interest to work collectively.

KEY FIGURES



sites with
the TopSite label



of sites must launch
the assessment
by 2020



CORBAS: THE FIRST TOPSITE FLAG RAISED IN FRANCE

The TopSite flag has been flying since January 8th, 2019 in Corbas (69), on the site of the most important solar canopy project in France. Installed on a storage facility for new vehicles awaiting delivery to car dealerships, the photovoltaic shades will provide both:

- green electricity for the network,
- and protection for the vehicles, in a region prone to extreme weather episodes.

In this turnkey solution, the label serves to certify the operational excellence of the CSR commitment from Bouygues Energies & Services teams to customers and local residents alike.

KEY FIGURES



EXAMPLES OF TOPSITE ACTIONS

- Reinforced safety briefing for those involved in photovoltaic risks
- Environmental analysis to gauge the impact of the works and implement appropriate actions
- Analysis of technical risks and shared control plans validated by the client
- Reinforced control of the various stakeholders to combat concealed employment
- Contribution to local employment by favouring regional providers

PONTOON DOCK TOPSITE AND INNOVATIVE!

The first TopSite label was awarded in London for this residential program of 236 homes, as well as shops and the landscaping of public space. Developed by Linkcity and produced by Bouygues UK, a subsidiary of Bouygues Bâtiment International, this project boasts numerous innovations, such as:

- a website to inform residents,
- a 3D scanner to provide the customer with a complete and precise survey of the structures,

- an automatic control system to monitor the levels of dust, noise and vibration in order to protect the surrounding ecosystem,
 - and tools to ensure the well-being and safety of workers on site, like Gorilla Gripper, a carrying handle for lifting the plates, or like the Havwear bracelet, which measures workers' exposure to vibrations.
- These initiatives have earned Pontoon Dock the TopSite Innovation label.

THE 1ST LABEL THAT BRINGS TOGETHER ALL BOUYGUES CONSTRUCTION ENTITIES ON 5 CSR THEMES

16 CRITERIA



+ 2
bonus innovation
& good practice

=



+ 5
bonus innovation
& good practice
(at least 1 per theme)

=





BÉRENGÈRE GAZAGNES

CSR Manager at Epson France

EPSON “COMBINING TECHNOLOGICAL INNOVATION AND RESPONSIBILITY”

A world leader in technology, Epson displays a wide range of products, from industrial, office and family inkjet printing systems, to 3LCD projectors and industrial robots. These tools can help improve the environmental impact of businesses thanks to the compact, energy-efficient and high-precision technologies that Epson develops. Bérengère Gazagnes, CSR Manager at Epson France, tells us more about it.

How did Epson's climate commitment come about?

I would say it is in our DNA, grounded in our Japanese roots. As an island country with a high human density and limited resources, Japan has always functioned with a spirit of circular economy and eco-design. In 2008, the group established its “*Environmental Vision 2050*”, which we progressively adjusted to meet new challenges. Today, the UN Global Compact and Sustainable Development Goals are more than ever the driving force behind our objectives.

How is this philosophy expressed?

Already at the design phase, we take into account the full life cycle of our products, in order to increase operational efficiency and productivity, but also to anticipate their end of life. Our stakeholders are an integral part of this movement: from our supply chain to our customers, as well as our teams.

And in your products?

It is in this spirit that we have developed our inkjet printers: a simple system, without heat emission, which deposits ink droplets on the media. The result: a more durable and robust printer, less demanding in energy and raw materials and generating less waste. Based on products sold in 2018, this would allow to save 15.4 million euros and over 37,000 tonnes of CO₂ over four years for Western Europe - compared to laser technology. We keep innovating by developing new

solutions, such as PaperLab, the very first paper recycling machine in the office.

How do you envision future steps?

Between 2012 and 2017, our printers saw their power consumption in standby mode decrease by 67%, and the life cycle analysis of our printers revealed an 18% reduction in total CO₂ emissions. But we need to go further. That is why our new 2025 objectives - validated by the independent initiative SBTi - aim to lower our GHG emissions by up to 44% across our entire value chain. By combining technological innovation and responsibility, we can successfully implement the ecological transition.

HIGH CAPACITY INK TANK PRINTERS

84%

consumables CO₂ emission
reduction compared with cartridge
printers



The Heat-Free Technology that could help you meet your sustainability objectives



Recent research suggests that 44 per cent of European businesses now consider environmentally-friendly initiatives a priority, and around 38 per cent recognise the importance of Corporate and Social Responsibility (CSR)¹.

However, wanting a greener future is one thing. Making it happen is quite another.

Cost and time constraints mean businesses and public sector bodies often struggle to improve their CSR performance, a challenge that is increasingly unacceptable to customers who are demanding more transparency from the businesses they engage with.

But there's one area where cost savings and a greener future can go hand-in-hand; a heat-free solution that can significantly contribute to your sustainability objectives, save money and improve process.

Epson business inkjets: Saving money, saving time – and helping to save the planet.

Smart organisations across Europe are already achieving greater operational efficiencies while enhancing their bottom lines, reputations and the wider environment.

The key is Epson's heat-free business inkjet technology. As its descriptor suggests, this innovative technology doesn't require heat in the printing process. That means less energy, and lower energy consumption means lower cost.

This can of course be an advantage with just a few printers in a branch office, but it's a gold-plated benefit if you have a fleet of hundreds, perhaps even thousands, of devices.

In fact, energy consumption is reduced by up to up to 95%².

And if a switch was made by all businesses across Europe from laser to Epson business inkjet, over 1.8 billion kWh of energy could be saved each year – the equivalent of powering a fleet of 1.2 million electric cars³.

In turn, CO₂ and typical cost would also diminish. A similar total exchange of laser for Epson business inkjet printers could see businesses across Europe saving up to €213m each year in energy costs – or 636,000 tonnes of CO₂; a volume it would take 29 million trees a year to absorb⁴.

But it's not just energy reduction that's driving this shift. Waste is also significantly lowered, with far fewer consumables required; or needing manufacture, transportation, storage or disposal.



The analysts are taking note

According to IDC's Phil Sargeant: "One in three devices being sold into an office environment is a business inkjet. Inkjet has made huge strides forward and now the cost, time and environmental benefits are so compelling, it's a technology no one can afford to ignore."

Match your organisation's sustainability objectives against the savings made possible by Epson business inkjets, and suddenly you're in a better place.

And so is the rest of the world.

www.epson.co.uk/advantage-inkjet

¹ Coleman Parkes, 2018, as commissioned by Epson Europe. Survey conducted in UK, Germany, Italy and Spain in November 2018, surveying 1,000 print decision makers and 1,000 print users.

² Epson WorkForce Pro WF-C8190DW uses 95% less energy than the HP Color LaserJet Enterprise M750dn, the highest-selling model in the A3 colour single-function 21-30ppm printer segment as reported by IDC Q3 2015 to Q2 2019. Methodology verified by TÜV Rheinland, based on 'Typical Energy Consumption', defined under the Energy Star test procedure and presented in kWh per year.

³ For more information please visit www.epson.eu/neop-footnotes

⁴ For more information please visit www.epson.eu/neop-footnotes

A GALAXY OF PROMISING SOLUTIONS

GREEN FREIGHT HAS THE WIND IN ITS SAILS



Zéphyr & Borée

low carbon shipping

Transporting goods, a polluting activity? Not for much longer, thanks to Zéphyr & Borée, a French start-up designing container ships with sails. Their first project, Canopée, is a 121-meters-long cargo ship equipped with 4 articulated wings of 375 m² and a dual fuel Diesel - LNG engine. It will be used for the transport of the future Ariane 6 launcher. Scheduled for 2022, it is expected to reduce harmful emissions by 35%.

PURIFIED WATER FOR ALL!

DESOLENATOR®

Desolenator combines two of the most abundant products on earth, seawater and solar energy, to produce one which is becoming increasingly scarce: drinking water. Desolenator's modular technology removes 99.9% of contaminants and requires very little maintenance. 10,000 to 250,000 litres of water can be purified each day, depending on the model of Desolenator used.

SMART AND GREEN: THE WINNING PAIR FOR THE CITY OF TOMORROW

KERMAP

Kermap provides local authorities with management solutions for urban development, based on artificial intelligence, in order to facilitate the ecological transition of cities: plant maps, climate modelling on a district level, development of predictive models to assess the impact of new urban planning...



Urban Canopee aims to reduce heat islands with vegetal canopies, which contribute to making cities resilient, while promoting: the return of nature and biodiversity, energy efficiency in buildings, the fight against pollution as well as citizens' well-being. Beyond combining composite materials, plant engineering and connected objects, Urban Canopee also has the advantage of being entirely self-sufficient in water and energy.



AGRICULTURE IS RISING UP

FUTURA GAÏA

Futura Gaïa is a European project aiming to deploy a vertical agriculture model on an industrial scale. As land is becoming scarce and local distribution networks are increasingly popular, vertical urban agriculture is an interesting solution. Futura Gaïa designs a turnkey, automated and robotic solution to finely manage production and optimize yields.



ENERGY EFFICIENCY MOVES UP A GEAR



Solcold aims to make the sun... the largest air conditioner in the world. By developing a paint that cools down as the sunlight intensifies, the Israeli company aims to reduce the city's energy consumption by 60%. Product launch is scheduled for 2020.

RESPONSIBLE CONSUMPTION



Each day, 300,000 food packages are thrown away in the Île-de-France region alone. Pandobac addresses this issue by providing wholesalers with reusable bins in order to remove and replace disposable packaging in the transport of food. Pandobac takes care of washing, restocking and tracking the packaging.



25 multinational corporations have joined forces to launch Loop: an e-commerce platform offering all types of everyday products in reusable and refundable packaging. While it is currently only accessible in the Paris region, the platform will be rolled out all over France in 2020.



Over 6 car tyres reach their end of life every second in Europe. This poses an environmental risk, but it is also a gigantic source of material for Oth and their shoe soles made from recycled tyres. According to the French brand, producing 3 pairs of Oth shoes would allow the recycling of one tyre.



THE ENERGY OF CURRENTS



Eel Energy has developed a technology to collect the energy generated by currents and tides. A predictable energy with a potential of 450 TWh/year worldwide and 105 TWh/year in Europe.

CROWDFUNDING FOR SOCIAL CARE

BEAM

Beam is a crowdfunding platform where anyone can sponsor a homeless person, by providing them with professional training that can lead to stable and remunerative work.

A SOLUTION AGAINST MALARIA?



Malaria kills one child every two minutes, mainly in Africa, and weighs on the development of an entire continent. Maïa's ambition: to save at least 100,000 lives thanks to its mosquito-repelling cream. Already sold in Burkina Faso, Maïa is awaiting WHO approval to move into high gear. Maïa is the winner of the WHO Africa Innovation Challenge 2019.

THE PROMISE OF HYDROGEN



Although it is very promising, hydrogen energy is still at an embryonic stage. The difficulties to transport and store it are particularly hampering its development. HySiLabs could break down these barriers with its disruptive technology to transform hydrogen into a liquid vector. The French start-up raised €2M in 2018 and should soon enter its industrialisation phase.





“IT’S A DEEP MOVEMENT”

ROSE-MAY LUCOTTE

Co-founder of ChangeNOW Summit

What is distinctive about ChangeNOW?

It is first and foremost an event focused on solutions, on concrete action and with a unique international dimension. In three years, ChangeNOW has become the largest global gathering of innovations for the planet, and brings together changemakers from around the world to accelerate the transition on the most urgent challenges of our century.

Do you see the business sphere stepping up on these issues?

Over the past three years, we have clearly seen the sector becoming more structured. And it is growing fast! If we still had to convince projects to come together 3 years ago, this year we received a large number of applications, and selected 1000 solutions, among solid projects with a real impact. At the same time, generalist investors are increasingly interested in impact startups, large companies are now integrating environmental and social issues into the very heart of their strategy, and talent is moving massively towards companies that make sense.

What about the COP25 failure?

Governments cannot act alone, change must come through close collaboration between public, private and citizen actors. Civil society, and youth in particular, wants to act, but is often powerless and limited to

protest actions. Concrete action is needed, and businesses play a key role in providing concrete solutions and responses. We need to offer alternatives, new models, to give everyone the means to participate in change.

What makes you optimistic about the future of the transition?

Seeing this quest for meaning grow across sectors. Seeking to do things differently, wanting to have a positive impact, is no longer something isolated! It's a deep movement. What is very motivating is to feel it concretely and to be at the heart of this change, through ChangeNOW. And to be able to federate leaders, groups and communities that have an impact.

What is still missing to amplify the movement?

The solutions need more support to be able to develop and scale, thanks to private funding and public support encouraged by legislative action. Finally, we must continue to create a positive narrative around the transition, to show that change is not a constraint, but an opportunity, and to make people want to participate in these changes. Because our future depends on it.