



Annual report 2020

 **POLITECNICA**
BUILDING FOR HUMANS

03



Annual report

04 | The C.E.O's letter to stakeholders

06 | The future to come

10 | Rethinking the project

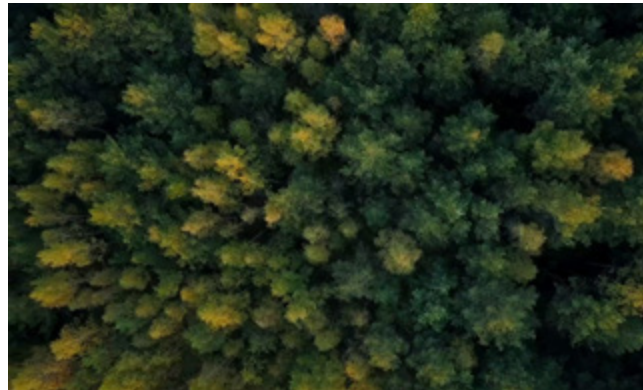
14 | Our SDGs projects

26 | Road to 2030

28 | Politecnica's values

30 | Our 2020

43



Highlights

44 | Economic highlights

45 | Sustainability highlights

47



Building For Humans

48 | People at the centre

An aerial photograph of a turbulent ocean surface. The water is a mix of deep teal and dark blue, with white foam from breaking waves creating intricate, swirling patterns. The overall effect is one of intense natural energy and movement.

Annual report 2020

The era of change driven by sustainable development

A new change. Over the past year, the world has experienced one of the main epidemics in its modern history: the Covid-19 pandemic, an unprecedented event with a deep health, economic and social global impact.

Our lives have changed dramatically, as has our relationship with spaces, from urban, shared and outdoor spaces to work and home.

Today a new change is on the horizon, a new reconstruction of our future, a true sustainable development that has become even more urgent because of the pandemic.

Sustainable – resilient – inclusive cities of the future, focused on people as the starting point of the new global challenge. In this extraordinary context, the design has been asked for action and must play its role.

The Person at the Centre. The epochal transformation underway requires designers to change their perspective, from planning cities to planning urban life: we have a responsibility to create urban ecosystems that enable and facilitate access to lifestyles – both personal and working – in response to needs for accessibility, flexibility, sustainability, safety and equality.

The **health sector is undoubtedly the first sector that shall adapt to this transition process**, with solutions that ensure a fundamental public right both now and in the future. Besides rethinking current structures in a rapid, effective and localized way to manage the current health emergency, the biggest task for planners will, in fact, be to work on creating structures that are adaptable to manage future emergencies on the one hand, and to ensure continuous efficiency in meeting users' basic needs on the other.

Another area in which we are particularly involved is **infrastructure, which is crucial and strategic on the international political and economic agenda for the post-Covid recovery**. It is essential to step up efforts to develop infrastructure with a view to ecological and digital transition, with the aim of encouraging increasingly sustainable and accessible mobility.

The design of the cities of the future will also have to include **the regeneration of the immense historical and architectural heritage**

that we have inherited and which represents, now more than ever, a precious resource to be re-used in a circular way, without new land consumption. Investing in the regeneration of suburban areas and disused buildings is one of the keys to overcoming the traditional dichotomy between the centre and the suburbs, returning heritage to the community thus giving it new vitality and new uses.

Designing for sustainable recovery.

The architecture and engineering sector is playing, and will increasingly play, in the near future, an essential and strategic role in the country's post-pandemic recovery. It is therefore even more important to promote, among our public and private clients, the distinctive ability to design in an integrated manner that allows us to successfully carry out key interventions in those sectors, from infrastructure to healthcare, in which major investments are required to restart the country's productivity.

Our challenge. The challenge facing Politecnica over the next three years is to organize the production sector in the best possible way to respond to a challenging scenario in which design is at the centre of an unprecedented historical moment. We will deploy highly qualified personnel, high production standards and the capacity for continuous technological innovation, while maintaining a high level of commitment to contributing, with our projects, to sustainable growth.

Our focus on people grows more and more.

Similarly, Politecnica's focus over the next three years will be on promoting corporate welfare policies and initiatives for our people –

partners, collaborators and employees – who in recent years have been the real driving force behind our continued growth and creation of value for the company and all our stakeholders.

We will strengthen initiatives to reconcile work and family commitments, facilitating smart working, which will become a permanent feature of ours, if requested by the individual worker. We will invest in training, with the aim of creating a working method centred on collaboration, multidisciplinary and the exchange of skills to encourage integration between the Cooperative's solid technical foundations and the contents in innovation brought by the new resources that will join us in the coming years. We will continue on our path towards inclusive work for gender equality, youth and female employment.

Our solid history allows us to look ahead to the near future with confidence.

Despite the current context, Politecnica has continued on its growth and consolidation trend; 2020 is the year closing the three-year plan in which we have achieved all targets set in terms of profitability and assets, with an increase in the order book that gives us significant visibility.

The year 2021 marks the transition to a new three-year period that we expect to see significant development and that will bring our sector extraordinary opportunities in the coming years, on which we are already working with determination and enthusiasm, with the aim of assuming an ever greater role in the infrastructure, health and historical-architectural heritage recovery sectors. In the three-year period 2021-2023 we have the ambition and the possibility to exceed, for the first time in our history, 20 million EUR

of turnover, to reach a net equity of 6 million EUR and, above all, to continue with the plan of Company growth, with new entries among our people and new partnerships in Italy and abroad.

Our performance strengthened us and made us confident in the capability of achieving even more; we are ready to take the chances of the new three-year development period and to do our part for sustainable development.



Francesca Federzoni
Politecnica C.E.O.



People at the heart of inclusive and flexible urban ecosystems

The city of the future Towards new models and urban lifestyles

The health, social and economic emergency caused by Covid-19 has accelerated the change of urban contexts and the way we live in our homes, workplaces and public spaces.

Never before has there been such a need to create so-called '15-minute cities', urban areas where neighborhoods can become inclusive and vibrant parts of the city available to the communities that live in them, true ecosystems rich in networks of relations, proximity services, coworking spaces to integrate the possibility of working remotely, as well as places for outdoor activities.

Flexibility and hybridization are the key concepts from which design must start to respond to this new way of "urban living", proposing modular, integrated and functional solutions to new needs. We design places with a defined identity that can accommodate several functions and recipients, adapting to different needs, times and attitudes. We consider buildings and public spaces as generators of opportunities, structured and at the same time capable of adapting to the uses and roles that users can and want to give them.

In this respect, the designer has a key role to play in facilitating the transition.

The challenge for the designer will be to be able to look ahead, to imagine how a work can respond to future changes made necessary by the continuous evolution of urban models and lifestyles.

Modular and shared spaces to reconcile private life and work needs. The way we live and work is rapidly changing, with ever-renewed and different needs: we work from home, in public places, in shared spaces or outdoor, trying to adapt and find a sustainable balance between work, personal and social life.

Offices are transformed into new environments, with spaces that adapt to the changing flows and dynamics of work groups, becoming urban catalysts of city users and potential containers of services and opportunities. Our projects envisage complex buildings, no longer intended just as work spaces, but as places of aggregation that accommodate a multiplicity of expectations, needs and disciplines, promoting a new idea of sociality.

A new concept of 'home' is being born, offering the most varied uses and becoming a place to stay and live fully, work and spend freetime.

The direction to follow is therefore that of creating **housing units that can be quickly and economically adapted to the changing needs of their occupants, also using shared condominium spaces and services, and enriching residences with renovated, green and outdoor meeting places.**

Trentino Health Centre
Contest ▼



Flexible and resilient health hubs Immediate answers to innovate the hospitals of the future

The Covid-19 pandemic reminded the world of the universal value of health, its nature as a fundamental public good and the macroeconomic relevance of public health services. In response to the diktat of the World Health Organisation, design professionals and the National Health Systems have been asked to build or transform facilities with rapid, local and cost-effective solutions.

The exchange of experiences between architects and engineers from all over the world on the best practices of the new Covid-Proof Hospitals is one of the keys to working together in this global challenge and leaving no one behind. In 2020 we launched a digital training programme aimed at some developing countries, in particular Jamaica and Belize, to pass on our expertise, technological options and strategies adopted in Italy, to facilitate the planning of interventions accessible to each state according to the economic and cultural resources available to them.

By taking part in the national tender launched by the Government, as part of the hospital network reorganization plan to upgrade Covid hospitals in Italy, we have been awarded important lots in the regions that host our head offices (Tuscany, Emilia-Romagna and Lombardy), where we are supporting 75

interventions in about 19 hospitals. Our team, which specialises in the design of healthcare facilities, has also developed and started, in just a few months, two modules adjacent to Modena General Hospital and Baggiovara Hospital, equipped with all the biomedical systems and technologies needed to assure full functionality and autonomy of the facilities, for a total of 47 intensive care beds, establishing itself as a pioneer of an innovative model that can be replicated for the hospitals of the future.

We are investing in research in order to face an exciting new challenge: **creating structures that are adaptable, versatile and ready for new emergencies.**

Our mission is to **minimize risk in the hospitals of tomorrow**, to be designed **to ensure safety and meet the basic needs of users.**

We promote the use of digital technologies to help build Smart Hospitals, ensure smart disinfection procedures, enhance telemedicine, facilitate the development of booking apps and enable inpatients to stay connected with loved ones.

We support proximity and humanization, promoting the concept of the “friendly hospital”, **without neglecting quality, beauty and interior design**, which make the healthcare facility a comfortable and welcoming place for both patients and staff.



National Intensive Care Hubs ►
Baggiovara General Hospital

Infrastructure and sustainable mobility

Accessible and digitized intermodal transport hubs to foster ecological transition

The path towards recovery and the transition to a sustainable development model as envisaged by the European Green Deal and the United Nations 2030 Agenda, with the significant opportunities and resources of the Next Generation EU that Europe is preparing to put in place, will also go through the creation of **modern, safe and efficient infrastructure**.

Increasingly sustainable and accessible mobility is a key point on the political agenda of Europe and individual countries, which will make it possible to combine innovation and scientific research to create solutions capable of supporting the industrial and economic growth of an area and improving the quality of life of its communities.

The infrastructures of the future shall be **interconnected** and use digital technologies for an effective monitoring of their status and performance data, recording their impact on the environment, consumers and costs, and improving route and traffic planning, enabling the sharing of data information according to transparency and security standards.

They must be **adaptable**, to cope with climate change and any high impact phenomena, and **eco-sustainable**, to facilitate the **de-carbonisation of mobility** and encourage public and alternative **mobility**, favouring **environmentally friendly materials** with the same durability and safety performance.

They should be located within **green corridors**, respecting the natural landscape and the environment, according to a systemic approach and integrated planning aimed at implementing strategies and positive interactions for ecosystems.

The challenge of a truly sustainable project is to assess all these aspects with a view to long term growth, maintaining and implementing it on an ongoing basis, evaluating what is concretely pursuable and improvable: a path that Politecnica has already been following for several years in numerous projects around the world.

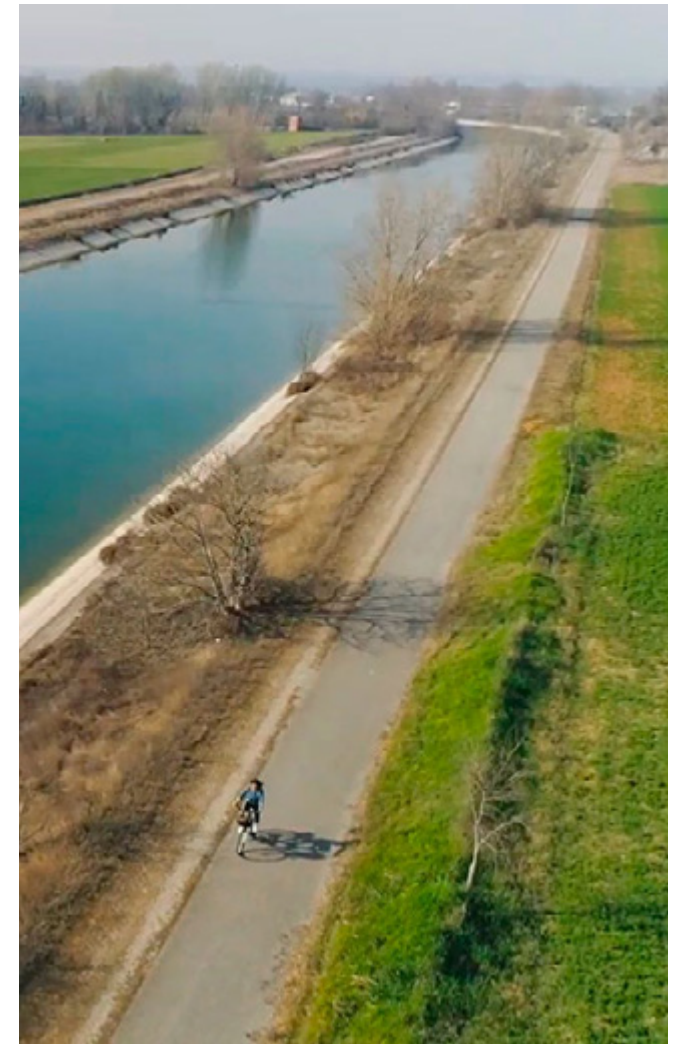
We are one of the first design companies in Italy to apply the **Envision® protocol**, the main rating system for sustainable infrastructure, founded by the Institute For Sustainable Infrastructure in the USA.

We are engaged in knowledge sharing programmes on innovative design issues, such as **climate change resilience of infrastructure works**, to share know-how and technical expertise with local partners and clients involved in the projects we are supporting abroad, notably the Wismar Bridge in Guyana, the Philip Goldson Highway and the Haulover Bridge in Belize.

In Italy, we helped found and promote **the AIS – Associazione Infrastrutture Sostenibili (Sustainable Infrastructure Association)** in 2020, which brings together multiple forces and

authoritative voices to fully exploit synergies and opportunities for innovation and to give life to rivoluzionare truly sustainable projects, capable of revolutionising our system by favouring ecological transition and social progress, encouraging digital transition, and supporting and increasing competitiveness.

Sun Cycle Route
Veneto, Lombardy, Emilia Romagna and Tuscany ▼



A historical and architectural heritage to be transformed

Recovering the existing building stock for new uses, including social and cultural ones

The neighbourhoods of the future must be highly specialised, integrated and serviced, capable of adapting to the needs of their inhabitants.

Within this strategy, disused buildings can be recovered to become co-working and co-housing spaces, reactivating a multifunctional urban fabric, imagining new creative roles for disused containers.

Italy is one of the countries with the largest architectural and building heritage in the world, an asset to be protected in order to **hand on its historical and identity values to future generations**. Nonetheless, it is an often neglected heritage to be returned to the community.

Careful planning can safeguard and, at the same time, transform the heritage of the past, enhancing it by adding new layers of uses and meanings that respond to contemporary needs in terms of functions, sustainability, social and cultural values, to generate places of life full of a renewed urbanity.

Local History Museum ►
Restoration of Riccione Piva Furnace

We welcome new design challenges that enhance the territory and its iconic places, which are the repositories of a stratification of ancient histories.

One of Politecnica's major recent projects in this area is the restoration plan for **Palazzo Sartoretti in Reggiolo** which included seismic upgrading and retrofitting to make a historic building, rich in pictorial decorations all over its main floor, functional, and to house the current municipal offices.

Another significant restoration project is the **Arsenale in Verona**, about 20,000 square metres of almost totally unused space in the immediate vicinity of the historic centre, which we are redeveloping mainly for public and cultural use, giving it a new life.

This project is part of the voluntary **GBC Historic Building®** certification process, which shows how sustainable our restoration work and, more generally, the recovery of historic buildings is, especially from an environmental point of view.



Politecnica visions and experiences for a “new normality”

In 2020, Politecnica's People were confronted with a change that is leading to **different needs in conceiving physical spaces and modes of use** than we are traditionally used to.

In the context of the complexity of today's society and the challenges it poses to the world of design, work is increasingly **process design** rather than form or space design; the designer is therefore asked to play a role of greater **vision** and “conceptualization”, to create community-oriented works, where the culture of design, humanism and social responsibility – values that have underpinned Politecnica since its foundation – today more than ever must guide the response to new needs, in order to look to the future with renewed enthusiasm.

This applies transversally to all the areas in which Politecnica has been working for years all over the world: from urban regeneration initiatives, to industrial and production developments, from infrastructures to health, from the conservation and enhancement of environmental and cultural heritage inherited from the past, to the great challenge of rethinking the post-pandemic urban context.



Design responsibility

“As designers we have an **intrinsic responsibility**: to imagine what is not there and must be there, to improve the quality of our lives and the future of new generations.”

◀ **SPRINT Pesaro Project**
Station area regeneration



Accessible and inclusive design

“**Design must** promote new sustainable lifestyles **through facilities that provide essential, inclusive and safe services to be generally accessible** for the **progressive improvement of the quality of life of all people**, without distinctione.”

◀ **Zealand University Hospital**
Køge, Denmark



Work-life balance

“Smart working, or emergency home working, has stimulated rapid and effective reactions that it is now time to translate into opportunities and sustainable solutions. While the home must remain the core of personal and family life, after a year of experimentation it has become clear that **the office is the place for a new, stronger and sincere sociality.**”



Rethinking cities for a new paradigm of urban life

“Cities will prove to be the **engine of growth and innovation in every country.** The urban fabric is rich in ideas, inclusive and vital at all times, allowing for the variety of functions and adaptability to time and genius loci that make it suitable for responding at short distances to residents and city users who seek intertwined opportunities for their professional, family and personal needs close to home or work.”

◀ Lorenteggio 181 housing
Residential buildings Milan



Spaces that generate new opportunities

“Buildings and public space become major **generators of social, economic and cultural opportunities**, structured as necessary for functionality although adaptable from time to time to the uses, and therefore the urban roles, that users will be able and willing to give them.”

◀ **Book museum**
Restoration of Arborea silos



Towards resilient healthcare construction

“We are witnessing a transformation of hospitals that goes beyond the emergency context and requires a different, long term reflection from us as designers: the structures from now on must be ready and conformed to **guarantee an immediate response to new needs and emergencies**. The new theme is Resilience.”



Public-private partnership for efficient hospital facilities

“We create **concrete projects and solutions**: facilities with many hygiene points, large spaces and differentiated routes reserved for patients with infectious diseases, involving administrations in the training process, orienting them towards the idea that ‘prevention’ costs less in the long run than “treatment.”

◀ Hospital and Health Citadel
Pordenone



Sustainable and inclusive infrastructure

“Infrastructure design must first and foremost consider the **priority objectives of the community**, defining which and how many long term benefits it can really offer, thus minimizing negative impacts on the community. The key word is Sustainability, in all its main meanings: environmental, economic and social.”

Designed by and for people

The Global Agenda for Sustainable Development (2030 Agenda), ratified during the UN summit in September 2015 by 193 countries, brings together the 17 Sustainable Development Goals (SDGs), broken down into 169 targets. The SDGs are designed as a continuation of the Millennium Development Goals, which were defined in 2000 by the United Nations.

Politecnica wants to contribute to the achievement of 6 of these objectives, which have at their heart the well-being of the human community by designing people friendly works.



Good health and well-being

We carry out works that can guarantee access to essential quality healthcare services thanks to our experience in complex projects.

Ensuring health and well-being for all and for all ages.

Our designers create health and hospital facilities that are efficient and users friendly. They are public works that **serve citizens and communities**, which we design to have the best possible environments for patients and which are, at the same time, functional to allow operators to carry out their work in the best possible way.

13

13 hospital facilities designed in Italy and around the world in the last 3 years for the well-being of patients, with comfortable, functional environments and excellence technology to guarantee quality healthcare.

GOALS PROJECTS

NATIONAL INTENSIVE CARE HUBS, MODENA AND BAGGIOVARA
NEW "FELETTINO" HOSPITAL, LA SPEZIA



Our experience in healthcare to serve Covid emergencies

NATIONAL INTENSIVE CARE HUB MODENA AND BAGGIOVARA HOSPITALS

Two new facilities to support Modena and Baggiovara Hospitals, with a **total of 48 beds** built in compliance with the latest health standards based on **safety, responsiveness and technology**.

We have worked with the local authorities to adapt the two existing hospital facilities not only to respond to the Covid-19 health emergency but also to increase their capacity for care in the future.

The integrated design approach, based on the use of **BIM technology**, was fundamental for the construction of two “additional” modular hubs, **connected at strategic points** to the main buildings to allow the reorganisation and optimal exchange of internal flows, in terms of accessibility, logistics, use of equipment and facilities, services and staff operations.

[Read more...](#)



Redesigning healthcare buildings for today's challenges

NEW “FELETTINO” HOSPITAL LA SPEZIA

A major hospital redevelopment project with **8 floors and 506 beds**, designed in the name of energy and technological innovation, according to the principles of **circular design** to meet the highest standards of efficiency, functional flexibility and user comfort.

The **strategic redesign** of the building, in public-private synergy, was modulated with an increase in the number of high- and medium-intensity care beds to **cope with the Covid-19** pandemic and provide a state of the art, constantly updated health service, capable of adapting to the future challenges of the health system.

[Read more...](#)



Quality education

We design facilities with all the functional and architectural features for efficient and inclusive teaching.

Providing quality, equitable and inclusive education and learning opportunities for all.

Access to free, equitable and quality education is primarily a matter of design, which Politecnica develops, interweaving technical elements and social objectives. The design takes **into account the needs of gender equality, disabilities and of the interactivity concepts of the groups of students** to design stimulating, safe, educational and inclusive learning environments.

11

11 teaching and education buildings designed in the last 3 years. Our engineers and architects take into account the needs of students, disabilities and gender equality to design learning environments that are safe, non-violent and inclusive.

GOALS PROJECTS

NEW TEACHING PAVILION, MODENA

DIDACTIC LABORATORIES AND TECHNOLOGY CENTRE, VERONA



Innovative and sustainable buildings for better didactics

NEW TEACHING PAVILION

ENZO FERRARI ENGINEERING CAMPUS, MODENA

Since 1995 we have been responsible for many of the development and expansion phases of the “Enzo Ferrari” Engineering Campus in Modena on behalf of UNIMORE – University of Modena and Reggio Emilia.

Our most recent work, after winning the international design competition organized by the University, involved us in the construction of the new Teaching Pavilion.

High technology and energy-efficient environmental systems combine perfectly with functional and aesthetic requirements, in a new structure for 1200 students with a strong urban vocation. The Pavilion will transform and characterize the connective space of the Campus, creating a new access with outdoor spaces for events and a square to **encourage** users to **meet and socialize**.

[Read more...](#)



Technology and modularity serving the research

EDUCATIONAL LABORATORIES AND TECHNOLOGY CENTRE

VERONA

A new building to **guarantee larger, modular, welcoming and inclusive spaces** for research and teaching: this is the main target of our intervention in the “Cà Vignal” Science and Technology Hub on the University Campus of Verona, for which we have built 6 new laboratories for about 270 people, **4 new equipped classrooms** and an **Aula Magna** for 280 people.

The intervention was carried out entirely by BIM, including the implementation of a **BIM Execution Plan**, discussed and shared by all project stakeholders: an advanced application tool provided to the University for the maintenance and management of future interventions on the complex buildings, in order to adapt them, through innovative and sustainable solutions, to the continuous evolution of the demands from users and scientific research.

[Read more...](#)



Gender equality

Achieve gender equality and empower all women and girls..

Here, women and men design together.

One of our goals is to **design public and private environments in which the principle of Gender Equality is respected and the values of social and economic inclusiveness are promoted.** Gender equality is not only a fundamental human right, but the necessary condition for a prosperous, sustainable and peaceful world. For this reason, we promote the representation of women in our decision-making and management processes and act as their spokesperson within our sector and beyond. We design together by crossing different genders' insights for a more effective impact on society.

47%

47% of our people are women. Each of our projects will be enjoyed by both men and women. We believe that having different points of view, shared, associated to a common factor, is a unique value in designing to give answers to the needs of all mankind.

GOALS PROJECTS

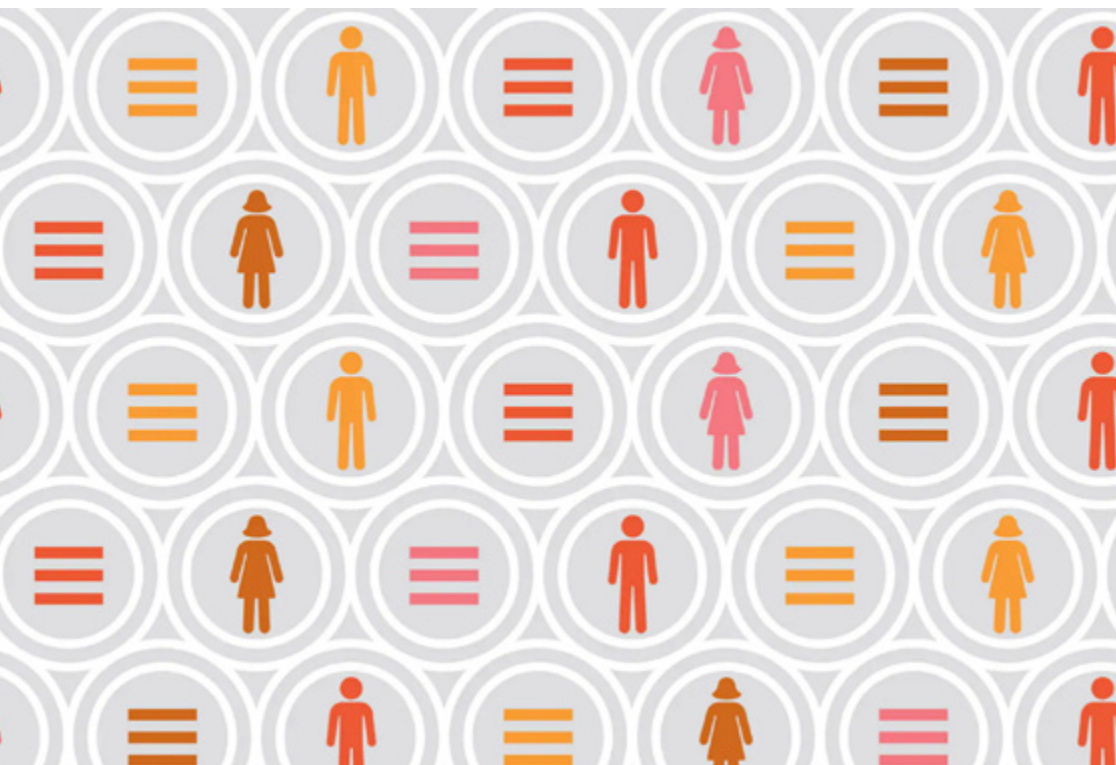
SUPPORT FOR AIW-ASSOCIATION FOR THE INTEGRATION OF WOMEN
LAUNCH OF GENDER AUDIT PROCESS



Support to AIW Association for the Integration of Women

Politecnica has chosen to support AIW, a social promotion association specifically helping young migrant women in economically and socially disadvantaged conditions, for the realization of the “**Roots**” project. Within the **San Paolo Complex in Modena**, one of Politecnica’s main restoration projects, we have made available pro-bono to the Association the design of two premises for the creation of a restaurant and a co-working space, with the aim of encouraging job placement and creating social connections, creating a reference point for the community, a place for exchange, sharing and integration.

[Read more...](#)



Initiating the gender audit process

Politecnica is in the process of carrying out a gender audit in order to put in place a methodology to assess and certify gender equality according to international scientific standards.

The audit is the first step that will allow the company to achieve certification of the actual level of gender equality by 2021, to optimize the potential contribution of gender equality in terms of company performance.

[Read more...](#)



Affordable and clean energy

Ensuring access to affordable, reliable, sustainable and modern energy systems for all.

Intelligent energy for the balance of the planet.

In the near future, the focus will be on a new balance between energy sources: natural gas, renewables and energy efficiency. Politecnica adopts the best technologies and design solutions that assure access to more efficient energy services in this transition between the mix of sources. For us, it is a **constant working method, an integrated approach, to search for design solutions providing for convenient, reliable and modern energy services**. Designing for a sustainable future means thinking about the future and the next generations, considering the impact that the project will have on the surrounding environment and on people throughout its life cycle, while assessing its contribution in terms of improvement to the place.

8

8 energy-certified projects/in the process of being certified by international bodies among the projects carried out in the last 3 years. Designing for a sustainable future means thinking about the future, the next generations, the impact that the work will have on the surrounding environment and on people throughout its life cycle.

GOALS PROJECTS

COOP RENO MANAGEMENT CENTRE, CASTELGUELFO DI BOLOGNA
PALAZZO DEGLI AFFARI, FLORENCE



Modern systems for maximum consumption control

COOP RENO MANAGEMENT CENTRE CASTELGUELFO DI BOLOGNA

A Management Centre organized according to principles of **conservation of green areas**, with **low environmental impact** and entirely self-sustainable in terms of energy.

The installation of ultra-modern mechanical ventilation, solar, thermal and photovoltaic systems enables to optimize the control of overall energy consumption, thus combining with comfort requirements for the activities and functions housed in the buildings. Saving electricity and heat and safeguarding other sources of natural supply are the primary drivers of the design process that must inspire a more sustainable future.

[Read more...](#)



Environmentally friendly renovation

PALAZZO DEGLI AFFARI FLORENCE

This intelligent redevelopment project aims to turn the historic Palazzo into a modern conference centre and exhibition space, **favouring the use of renewable resources** to ensure high standards of maintenance, durability, material compatibility and replaceability of elements.

A model of aesthetic and functional renovation in the name of change to **raise quality, comfort and orientation standards**, favouring access to renewed, state-of-the-art energy services, while respecting the best ratio between the benefits and overall costs of construction, maintenance and management.

[Read more...](#)



Industry innovation and infrastructure

Promoting innovation and fair, responsible and sustainable industrialization.

Infrastructure connects communities.

Investments in infrastructure and innovation are **crucial drivers** of a country's development and growth, whether in the planning of mobility, data or underground networks or in the design of new production facilities. This is why **we operate by integrating expertise, research and sharing with stakeholders**, seeking to optimize synergies and contributing to the technological, social and environmental development of the place. **Knowledge Transfer** between disciplines, professionals, generations and cultures is for us a working method based on reciprocity, which is particularly important in developing countries, but generally essential to ensure the **effectiveness and sustainability of the result**.

15

15 infrastrutture in Italia e in paesi in via di sviluppo designed in the last 2 years where every choice made by our designers can have a significant social impact. It is necessary to understand the needs of those who will use the works and to listen to the communities. A value that goes beyond technology.

GOALS PROJECTS

NEW BRIDGE OVER THE ARNO, FIBBIANA-CAPRAIA E LIMITE
LAMBORGHINI AUTOMOBILI PAINT SHOP, SANT'AGATA BOLOGNESE



New infrastructures to foster social connections

NEW BRIDGE OVER THE ARNO

FIBBIANA

Planning a road infrastructure in **harmony with the natural landscape and aware of the urban fabric** where it will be inserted is a challenge that today cannot neglect the characteristic relational networks of the place. This intervention, which connects the two banks of the Arno including the construction of a cycle/pedestrian path with a total length of 2 km, integrates into an existing **slow mobility system**, innovating the area without neglecting its peculiarities, social connections and community needs. The result is a new bridge capable of **considerably reducing vehicle travel times and at the same time improving the enjoyment of the area**.

[Read more...](#)



Innovation and cooperation to implement complex and efficient projects

LAMBORGHINI AUTOMOBILI PAINT SHOP

SANT'AGATA BOLOGNESE

An integrated and multidisciplinary design has resulted in the Paint Shop created for the historic industrial site of Lamborghini Automobili. The new production unit **combines craftsmanship and digitalization**, while the technologies introduced into the production cycle are all inspired by the concept of Industry 4.0, where modularity, flexibility and utmost customization are the keywords of the new development model. The sharing of expertise and the continuous confrontation between specialists, together with a precise study of the technological development needs of new projects are the winning components for the realization of a complex and efficient project.

[Read more...](#)



Sustainable cities and community

Sustainable cities and community.

The sustainability of a project is measured by its ability to integrate with the environment, the landscape, the communities and the economy of the places where it is implemented.

In our working method **the study phase of these places becomes essential, even before the design**, in order to create not only intelligent spaces and eco-infrastructures, but also opportunities for socio-economic growth and strengthening of urban resilience.

11

11 co-design activities with more than 30 public and private stakeholders over the last 3 years. The definition of an action plan shared with the communities of the places where we operate is fundamental in urban regeneration initiatives. Collaborating with those who know the territorial opportunities and problems allows us to design while respecting their identity and enhancing their social and cultural aspects over time.

GOALS PROJECTS

EX MONTEZEMOLO BARRACKS, CUNEO

URBAN REGENERATION DARSENA AREA, RAVENNA



Participatory planning for new cultural destinations

EX MONTEZEMOLO BARRACKS

CUNEO

One of the most important post-war urban planning interventions for the city of Cuneo, our **renovation of the 32,600** square metres of municipal property in the former Montezemolo Barracks was designed according to the criteria of **participatory urban planning**, with the involvement of the inhabitants and schools in the neighbourhood, to **give the city back an open, green area** with an important cultural vocation.

The former barracks will host a **“territory hub”** dedicated to the discovery of the city’s historical and tourist offer, and the area will be equipped for events. The large **multi-purpose lawn** will be crossed by bicycle and pedestrian paths connected to the nearby Parri Park, with no parking in the area.

[Read more...](#)



Urban regeneration that supports progress

URBAN REGENERATION OF THE DARSENA AREA

RAVENNA

The Dare project (Digital environment for collaborative alliances to regenerate urban ecosystems in middle-sized cities), winner of the fourth European call for proposals “Urban Innovative Actions”, aims to **create a path that combines technological transition and urban regeneration**, encouraging the spread of digital culture among citizens and the optimization of public administration services.

The **process of digitizing the area** actively involves the community in telling the story of the place and its evolution to make it attractive to residents, visitors and investors, encouraging a process of sustainable transformation, i.e. an integrated plan for social, environmental and economic regeneration and improvement.

[Read more...](#)

Our commitment to the Global Agenda

We have chosen to contribute to the achievement of the goals of the **UN 2030 Agenda** and outlined a roadmap of specific initiatives to pursue **sustainable development**, drawing inspiration from all those issues that have a direct impact on people's well-being and social development.

Our way towards 2030 continues and becomes even more of a priority to meet the challenges arising from the **Covid-19** pandemic, in a scenario of discontinuity that finds us committed to consolidating our concrete contribution, oriented by the values of responsibility and solidarity that distinguish us.

Politecnica is a woman

We are committed to increasingly empowering women in internal positions and functions, promoting their representation within our sector.

We have set the goal of achieving full numerical parity of our People by 2030, split 50-50 between women and men: in **2020, 47% of our people are women, versus 43% the year before, with full equal pay.**

We facilitate the **reconciliation of our people's family life with their working and professional life** thanks to a company supplementary agreement providing for flexible entry and exit times and for smart working for 100% of the working time. We have also accepted all requests for part-time work from our members and employees.



Since 2018, our company supplementary agreement has incorporated the protocol adopting whistleblowing as a reporting system **against harassment and violence in the workplace.**

In **2019**, we launched a training course for members, employees and collaborators on these topics, in collaboration with the CGIL union and the association Gruppo Donne e Giustizia, Women and Justice group.

We promote gender inclusion and equality through our projects, supporting the women of the territories and communities we operate in, through sharing skills and resources: this is why in 2020 we chose to support **AIW- Association for the Integration of Women**, a social promotion association that supports in particular young migrant women in economically and socially disadvantaged conditions, in the implementation of the **"Roots"** project.

Transfer of knowledge to developing countries

As we move towards 2030, we plan to implement several initiatives to **share know-how and technical expertise** with partners and customers in all the projects we are involved in around the world, to contribute to the development of professional knowledge through training sessions, exchange of expertise between designers and on site training modules.

We provide knowledge transfer sections on the most innovative topics in design.

In our projects in Belize and Guyana, we gave the client the opportunity to participate in our field investigations so to carry out an 'interactive' knowledge transfer with

sessions on road conditions, topographic and geotechnical surveys as well as road safety investigations.

In early 2021, we organized training sessions for engineers and architects from Guyana's Ministry of Public Works on the use of special software for analyzing the economic and transport feasibility of infrastructure projects and road safety, along with a virtual workshop in Belize on the topic of resilience of infrastructure works against climate change.

In 2020 we promoted two digital workshops entitled "Knowledge Sharing without borders" "Architecture & Engineering for Covid-19 proof Hospitals: the Italian experience", to share Politecnica's Italian project experience regarding the Covid-19 health emergency with the National Order of Engineers and Architects of Belize and Jamaica, the International Financial Institutions for the Caribbean and the National Health Authorities.



This initiative of technical and professional solidarity, which was highly appreciated by the beneficiaries, aimed at transforming the difficult pandemic situation experienced in Italy into an opportunity to make practices available, create connections and provide useful tools to tackle the emergency in fragile environments.

The future is in the hands of young people

We are an intergenerational company and one of our strengths is the continuous inclusion of young professionals among our Staff: **in the last three years we have started about 100 new collaborations with professionals under 40.**

We do care for professional development, being aware of its potential role in the interested area and the Italian professional scene.



We are investing in people and training, with the purpose of creating a working method focused on **collaboration, multidisciplinary** and the **management of complexity** that is clear and comprehensible to the new resources, who will contribute to enhancing Politecnica's consolidated experience with their innovative contents and digital skills.

We constantly cooperate with several vocational training schools, technical institutes and universities.

In 2020, we collaborated with the Universities of Florence, Genoa, Molise, Naples, Padua, Parma, Perugia, Pisa, Milan, Reggio Emilia, Bologna, Modena, San Marino, IUAV Venice, Ferrara for the activation of 17 curricular and extra-curricular procedures and sections (post-graduate traineeships), 14 of which resulted in an actual working collaboration between Politecnica and the new graduate/student.

By 2030, we envisage to set up the **"Politecnica Academy"**, which will promote initiatives to:

- Contribute to the training of young vocational school resources;
- Developing vocational training through stages and direct experience in the international projects in which the company is engaged;
- Start collaborations with a leading Italian university to support the development of a doctoral programme in BIM technology.

To meet new challenges

Politecnica is a company founded on respect for people and the planet, values that have guided us since we established, acquiring renewed sense in today's world.

Our engineers, architects and technicians share a vision of design at the service of man, where design challenges face the needs of communities with the aim of creating works that contribute to improving the quality of life.



Social responsibility

As a cooperative society, our founding values are primarily social responsibility and solidarity. People have always been at the heart of our work and all our projects: we are responsible and in solidarity with our clients, with the people and communities who will be using our work, with the territories we operate in, as well as the planet with its precious resources.

▲
Via Mercalli 23 Complex
University of Milan



Sustainability

People designing for people. We intend sustainability primarily as taking responsibility for designing structures and buildings for people's use. Our projects are focused on the ultimate goal of the work, which shall be specifically designed for its use: infrastructures offering exchange and relations opportunities to the communities, or technologically innovative, inclusive and safe buildings for health care and education.

▲
Piave River Bridge
Contest



Cooperation

The humanism has always distinguished us, we have been promoting it since our establishment between the associates, the employees, our customers and all stakeholders; this sense of the common good allows us to be always people-oriented, thus meaning to focus on our staff and the future users of the works we design.



Project culture

The culture of the project has been characterizing and distinguishing us from the start: we are engineers, architects and specialized technical experts. This allows us to tackle a project with an integrated vision for the benefit of the final result and the client, who finds in Politecnica a single interlocutor able to manage the complexity of a work.



Independence

A distinctive feature of Politecnica, which makes us the best partner for a client; our independence allowed us to develop projects all over the world and in every field, both public and private, in schools and healthcare, in industry, services and infrastructure.

A year of further growth projects us towards a new development plan

Financials and global thinking 2020

18,3 Mln€

turnover

18,8 Mln€

acquired projects 2020

41 Mln€

order backlog compared to 2019

30%

foreign market presence

10 Mln€

projects acquired by tender

8 Mln€

projects acquired private market

Solid results in 2020 despite the Covid-19 pandemic context

The year 2020 completes the three year period of Politecnica's 2018-2020 business plan, whose objectives have been fully achieved, and confirms the consolidation of our Company.

Specifically, despite the market context being profoundly affected by the Covid-19 Pandemic, Politecnica has managed to achieve significant growth and development with a turnover exceeding **€18 million**, an order book over **€41 million** and a net assets increase by **more than 10%** over the three-year period 2018-2020.

A solid income and capital situation that allows us to face the future with confidence and aim for significant growth over the next three years.

In 2020, foreign production was **30%** of the turnover, in line with the Company's objectives, which see overseas projects contributing a physiological share of one third of revenues, despite a slight decrease versus 2019, due to the suspension of international tenders from large Donors providing Politecnica's reference acquisition market.

In Italy, we continue to invest in the Lombardy area, where **Milan office** remains central to Politecnica's growth policy, in order to seize the opportunities offered by that live market, thanks to important development projects underway and planned for the coming years.

This is confirmed by the acquisition, in the early months of 2021, of orders in the public and private health care market in Lombardy, in continuity with the strategy of strengthening Politecnica's presence in the area, also through an increase in the professionals employed in the office.

In terms of sectors, the year that ended reported a further strengthening of the infrastructure, hospital and large private clients markets.

With the need to make intensive use of smart/agile working, which was already a modus operandi of the Company in the past, in 2020 Politecnica further increased its **investments in digital infrastructure** (hardware and software) compared to 2019, with a percentage equaling 5% of its turnover (almost €900,000), thus allowing over 250 people to work remotely by using state of the art IT and network equipment.

Best-of-breed technology is one of the distinctive assets of our work. Thanks also to the fruitful dialogue with Partners and Clients, we have continued our commitment to promoting and supporting large scale national and international projects, where **BIM technology** is applied according to the most recent regulatory standards, enabling us to further improve our management system with a view to multidisciplinary and an ever increasing focus on the aspects related to the timing and cost of works (4D and 5D).

Economic and financial dimension

Revenues

2020		18,4 mnl €
2019		18,2 mnl €
2018		19,1 mnl €

Operating costs

2020		12,9 mnl €
2019		12,7 mnl €
2018		12,7 mnl €

Salaries and benefits

2020		5 mnl €
2019		5 mnl €
2018		5 mnl €

Government payments

2020		120.400,0 €
2019		154.000,0 €
2018		554.000,0 €

Remaining economic value

2020		350.000,0 €
2019		256.000,0 €
2018		757.000,0 €

Main asset aspects

Reserves/Earnings

2020		1.781.000,0 €
2019		1.627.702,0 €
2018		1.422.015,0 €

Reserves/Earnings

2020		3.812.000,0 €
2019		3.612.269,0 €
2018		3.391.088,0 €

Net assets

2020		5.593.000,0 €
2019		5.239.971,0 €
2018		4.813.103,0 €

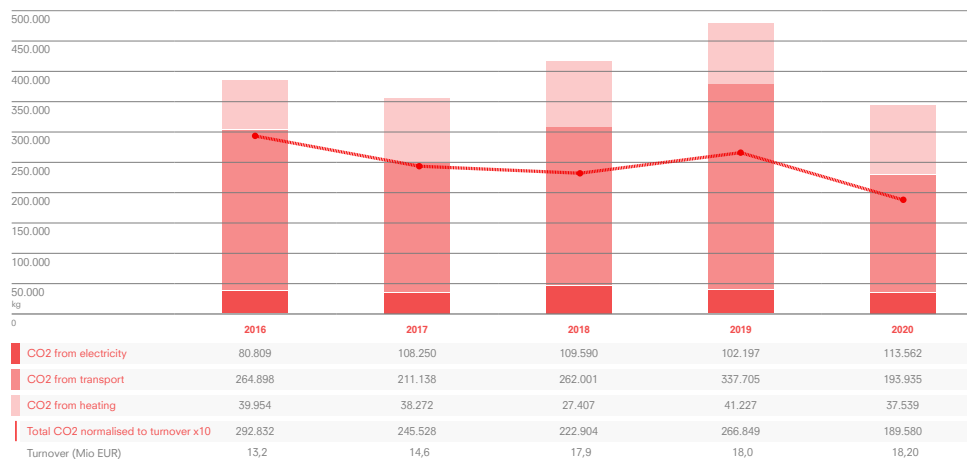
Sustainable future

Direct and indirect impacts

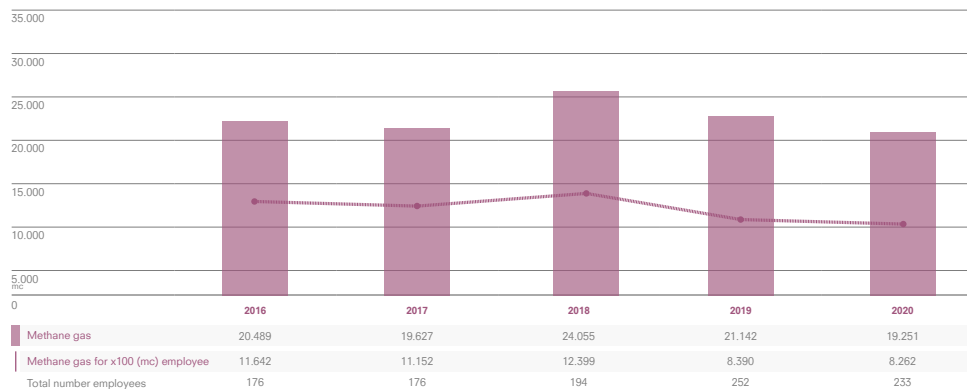
Since 2014, Politecnica has been recording its energy performance by developing an accurate **Environmental Analysis** project that is renewed and improved every year. Within the Analysis there are charts inherent to the direct and indirect impacts of Politecnica, which are derived from an in-depth study of the **relationships** between our production activity and the environment that surrounds it, depending on the constraints to which the company is subjected, including the legislative, socio-economic framework and the market in which it operates.

Politecnica identifies the **environmental quality of its services** as a fundamental and integral part of its mission and is committed every year to procedures, training and opportunities for improvement aimed at protecting the environment and oriented towards ever greater **energy saving**.

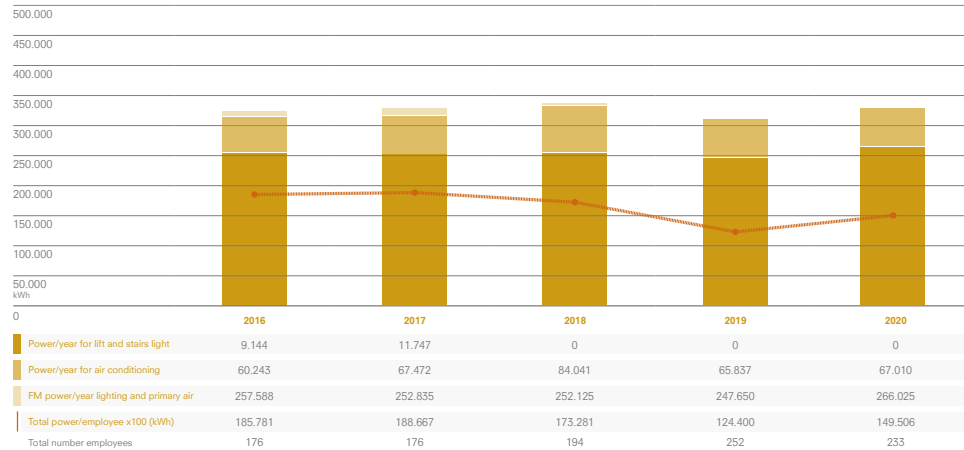
CO₂ DIRECT IMPACTS CONSUMPTIONS



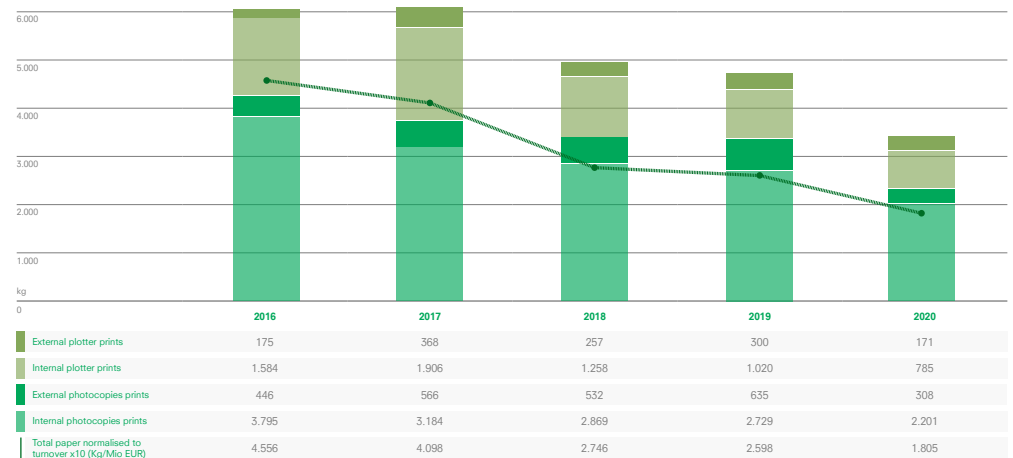
METHANE GAS DIRECT IMPACTS CONSUMPTIONS



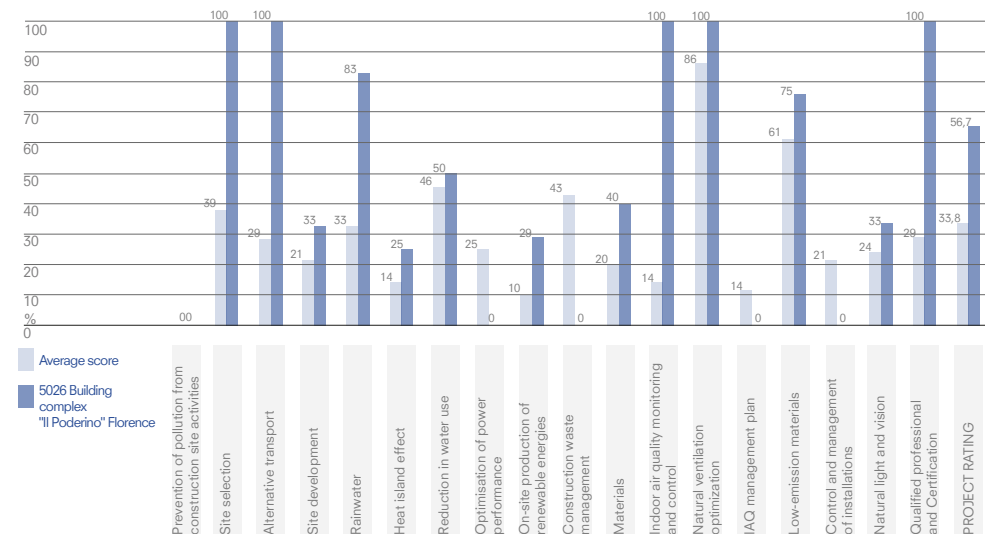
POWER DIRECT IMPACTS CONSUMPTIONS



PAPER DIRECT IMPACTS CONSUMPTIONS



2020 DIRECT IMPACTS ENVIRONMENTAL ASSESSMENT SHEETS



2020 INDIRECT IMPACTS ENERGETIC PERFORMANCE

		Useful surface energy (sqm)	Gross redemption volume (cbm)	Epgl,nren (kWh/sqm/year)	Epgl,lim (kWh/sqm/year)	Reduction	
2016	4701	SASSATELLI ELEMENTARY SHOOOL REFECTORY	497,65	3738,96	123,82	224,24	44,78%
2016	4445	STUDENTS RESIDENCES - BUILDING M7	27264,24	6173,91	93,82	130,44	28,07%
2016		Average percentage reduction					36,43%
2016		Percentage reduction weightihg by heated volume					34,38%
2017	4742	RESTORATION EX ESTANCO ZIRULIA UNIVERSITY* OF SASSARI	8282,91	36387,25	128,2	242,21	47%
2017	4732	"ANTICA SCUOLA DEI BATTUTI" HEALT CARE RESIDENCE	1571,77	6679,25	159,35	342,12	53%
2017	4790	UNIVERSITY OF VERONA		19037,99	76,5	130,18	41%
2017	4670	WORK SUPERVISON ZOOPROPHYLACTIC INSTITUTE OF VERONA		7478	10,3	16,3	37%
2017	4641	EXTENSION OF VARIGNANA RESORT & SPA	16673,7	16673,7	38,31	63,75	40%
2017		Average percentage reduction					43,69%
2017		Percentage reduction weightihg by heated volume					44,00%
2018	4846	GUIDOTTI GYMNASIUM	4822,06	12706,4	119,51	180,42	34%
2018	4860	COLOMBARA	1062,83	1849,1	191,40	241,41	21%
2018	4860	RIO ROSSO	862,09	1235,03	104,65	124,57	16%
2018	4883	EX ALGHERO COTTON FACTORY	8474,16	16069,5	237,94	283,78	16%
2018	4850	WURTH	11737,68	52838,18	102,16	114,1	10%
2018		Average percentage reduction					19,425%
2018		Percentage reduction weightihg by heated volume					15,34%
2019	4831	REMS CSP STELLINI-NOVARA VR	34939,28	16103,98	309,4	455,15	32%
2019	4883	FORMER COTTON MILLS EX TRA.L.TE	1960	117365	313,08	388,14	19%
2019	4920	ARBOREA BOOK CENTER	1722,92	6937,04	61,47	95,1	35%
2019	4925	MUSEUM EX PIVA FURNACE	1209,3	6330	147,47	292,71	50%
2019	4946	REAL ESTATE REDEVELOPMENT VIA TORTONA 31 MILAN	1200	6173	303,35	616,15	51%
2019		Average percentage reduction					37,42%
2019		Percentage reduction weightihg by heated volume					23,92%
2020	4917	POLITECNICO DI MILANO - INTERVENTION 2	4605,5	21606,7	574,4	1042,4	45%
2020	4950	HERA - BO	3699	15148,8	329,5	514,3	36%
2020	4975	NEW COOP RENO HEADQUARTER	3393,1	17532,4	96,3	149,8	36%
2020	4991	NEW SCHOOL IN THE CENTRAL PARK OF FOLLONICA	6759,9	31075,3	82,9	146,3	43%
2020	4997	COOP PALAGETTA	4567	25128	92	164,1	44%
2020		Average percentage reduction					40,76%
2020		Riduzione percentuale ponderata al volume riscaldato					41,55%



Main projects acquired in 2020

Pirelli skyscraper Milan

Intervention

The functional and regulatory adaptation of the building includes, in addition to the initial survey and investigation phases, the restoration of the façade and the upgrading of the exhibition areas with particular attention to the internal comfort of the rooms and their management and maintenance.

Customer

ARIA S.p.A.

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Pool Milano S.r.l.

Service

Technical and economic feasibility project | Detailed project
Final project | Health and safety design phase | Operating management

Assignment

Project coordination | Restoration | Systems | Health and safety



Former Fonderie Corni Modena

Intervention

After an initial evaluation phase on an urban scale, which envisages the establishment of different functions within the former industrial area, Politecnica is now developing the design of Lot 9 for the construction of a new student hall, car parks and commercial areas.

Customer

MO.RE. S.r.l

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Heliopolis S.p.A.

Service

Detailed project

Assignment

Project coordination | Architecture | Systems



Former Perfosfati factory Portogruaro

Intervention

The manufacturing buildings and boundary areas represent the hystorical symbols for the 50s local community's industrial development. These buildings will be completely redeveloped and secured to perform the recovery of 96.000 square metres area.

Customer

Municipality of Portogruaro

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Coopprogetti S.C.R.L.

Service

Site supervision | Health and safety executive phase

Assignment

Architecture | Decontamination and environment | Geology



University Campus ex Artillery Nuoro

Intervention

The listed buildings of the former barracks will be renovated and will house student accommodation, a university library with study room, teaching laboratories and an exhibition space. The existing green areas will be revitalised and enriched with outdoor sports facilities and paths.

Customer

Municipality of Nuoro

Team

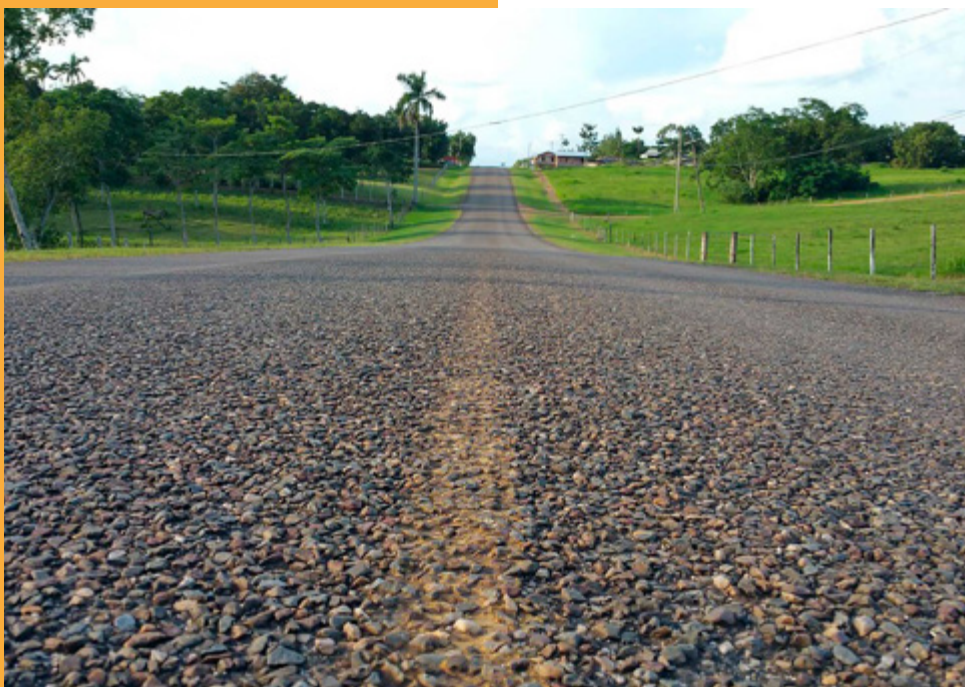
Politecnica Ingegneria ed Architettura Soc. Coop.
IANUS Soc. Coop. | Nicola Graniglia

Service

PUA Urban Implementation Plan | Technical and economic feasibility project | Detailed project | Final project | Health and safety design phase
Site supervision | Health and safety design phase

Assignment

Project coordination | Architecture | Structures | Systems | Sustainability
Hydraulics | Urbanism | Fire prevention | Acoustics | Geology
Health and safety



Philip Goldson Highway (Mile 8.5-24.5) Belize

Intervention

The Philip Goldson Highway upgrade project is part of Belize's national Climate Resilient Infrastructure Project (CRIP) and aims to adapt the infrastructure to the continuing risk of flooding, mitigating the impacts of climate change.

Customer

MIDH Ministry of Infrastructure Development and Housing
with funding from World Bank

Team

Politecnica Ingegneria ed Architettura Soc. Coop.

Service

Technical and economic feasibility project | Detailed project
Final project | Climate vulnerability analysis | Environmental, social and
landscape impact analysis | Topographical surveys

Assignment

Project coordination | Structures | Infrastructures | Systems | Hydraulics



Walls of the Castello Visconteo Novara

Intervention

The interventions aim at preserving the material and the original structural functioning of the walls of the Castle and the bastions of San Luca and San Giuseppe, recovering the functions of overlook and privileged viewpoint of the landscape.

Customer

Municipality of Novara

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Area Progetti S.r.l. | SAMA Scavi Archeologici Soc. Coop.

Service

Technical and economic feasibility project | Detailed project | Final project | Health and safety design phase

Assignment

Project coordination | Structures | Geology



Student Housing U10 Building Milan

Intervention

A new university building, located in the centre of the larger Milan-Bicocca campus. Once completed, it will provide all the urban functions necessary for the development of the district: housing, commercial spaces, offices, public buildings, squares and equipped open areas.

Customer

University of Milan-Bicocca

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Pool Milano S.r.l. | Coprat Soc. Coop.

Service

Project & Construction Management | Site supervision
Health and safety executive phase

Assignment

Project control | Quality | Health and safety



Main work in progress in 2020

Townsquare Sliema Malta

Intervention

A new multi-use district with residential, commercial and social spaces connected within 7,500 square metres of open areas with gardens and paths open to all. The new tower, designed by MXA-Martin Xuereb & Associates, will have 27 levels, all for residential use.

Customer

Townsquare Sliema Ltd.

Service

Technical and economic feasibility project

Assignment

Structures | Systems | Fire prevention | Infrastructures and networks



Sea Museum Trieste

Intervention

The "Magazzino 26" in Trieste's Porto Vecchio, which has been restored through important work to protect and enhance the existing areas, will house a new 8,500 square metre museum, organised with new exhibition routes with a strong multimedia imprint.

Customer

Municipality of Trieste

Team

Guillermo Vázquez Consuegra Arquitecto
Politecnica Ingegneria ed Architettura Soc. Coop. | Coopprogetti S.C.R.L.
Consilium S.r.l. | Mads & Associati | RE.TE. Realizzazioni tecniche S.r.l.
Filippo Lambertucci | Monica Endrizzi | SGM Consulting S.T.P. S.r.l.

Service

Detailed project | Final project | Health and safety design phase

Assignment

Restoration | Structures | Sustainability | Health and safety | Acoustics
Hydraulics | Infrastructures and networks



North Project Sant'Agata Bolognese

Intervention

A new industrial building, located within the historical site of Sant'Agata Bolognese, which will contain the production and logistic functions necessary for the implementation of new car models for a total of more than 10,000 square metres of useful surface area.

Customer

Automobili Laborghini S.p.A.

Team

Politecnica Ingegneria ed Architettura Soc. Coop.

Service

Technical and economic feasibility project | Detailed project
Final project | Health and safety design phase | Site supervision
Health and safety executive phase

Assignment

Project coordination | Architecture | Structures | Installations
Infrastructures and networks | Hydraulics | Fire prevention | Health and safety



ARS District Austrian Arsenal Lot 2 Verona

Intervention

The "Franz Joseph I" Arsenal will become a meeting place for Veronese and tourists alike and will house the Academy of Fine Arts, a large park and an urban market, as well as new exhibition and event spaces for young people, innovation, technology and the environment.

Customer

Municipality of Verona

Team

Politecnica Ingegneria ed Architettura Soc. Coop.
Studio De Vita & Schulze Architetti | F&M Ingegneria S.p.A.
Coprati Soc. Coop. | SAMA Scavi Archeologici Soc. Coop. | Monica Endrizzi

Service

Detailed project | Final project | Health and safety design phase
Site supervision | Health and safety executive phase

Assignment

Project coordination | Surveys | Systems | Sustainability
Relations with authorities | Geology | Infrastructures and networks
Hydraulics | Acoustics | Decontamination and environment



JRC corporate restaurant Ispra

Intervention

The new building will be able to serve over 1,500 meals a day and, thanks to specific architectural and environmental criteria, will provide new ways of using the service based on interaction and aggregation of the community throughout the JRC.

Customer

European Commission Joint Research Centre

Team

Politecnica Ingegneria ed Architettura Soc. Coop.

Service

Technical and economic feasibility project | Detailed project
Final project | Health and safety design phase

Assignment

Project coordination | Architecture | Structures | Systems | Sustainability
Interior design | Acoustic | Fire prevention | Health and safety



Former STA.VE.CO. barracks Bologna

Intervention

The project constitutes the starting point for the definition of the state of consistency and conservation of the entire area of the former Barracks, a necessary starting point for the development of future scenarios of redevelopment and transformation into the New Citadel of Justice in Bologna.

Customer

Agenzia del Demanio, Emilia Romagna Regional Administration

Team

Politecnica Ingegneria ed Architettura Soc. Coop. | Abacus S.r.l.
Studio Mattioli S.r.l. | LIFE Laboratori Ingegneria Ferrara S.r.l.
CFR Consorzio Futuro in Ricerca Ferrara | Ante Quem S.r.l.

Service

Seismic vulnerability | Urban integration | Documentary-archival research campaign | Integrated laser scanner, drone, topographic station and GPS surveys | Investigations of soils, structures, archaeology and environment
Data acquisition and BIM restitution

Assignment

Project coordination | Structures | Surveys



New Wismar-Mackenzie Bridge Guyana

Intervention

The project, based on the Envision® principles for sustainable infrastructures, involves the construction of a new infrastructure linking the Georgetown-Brazil route, which is essential for the growth and social and economic development of the entire region.

Customer

MIDH Ministry of Infrastructure Development and Housing, Government of the Cooperative Republic of Guyana with funding from CDB Caribbean Development Bank

Team

Politecnica Ingegneria ed Architettura Soc. Coop.

Service

Technical and economic feasibility project | Detailed project | Final project
Climate vulnerability analysis | Environmental, social and landscape impact analysis | Geognostic and topographical surveys
Environmental, bathymetric and traffic analyses

Assignment

Project coordination | Structures | Infrastructures | Systems

An aerial photograph of a dense forest. The left half of the image is faded, showing a mix of green and yellow foliage. The right half is in sharp focus, revealing a dense canopy of trees with vibrant green and bright yellow leaves, suggesting an autumn scene. The word "Highlights" is centered in white text over the right half.

Highlights

Economic

18,2 Mln €

turnover

30%

foreign market presence

10 Mln €

projects acquired by tender

8 Mln €

projects acquired private market

18,8 Mln €

acquired projects 2020

41 Mln €

order backlog compared to 2019

Sustainability

Consumption

345t

amount of CO2
produced in 2020

1,43ml

amount of water
used (megalitres)

3,7t

amount of paper
used in 2020

People

47%

of staff are women

53%

of staff are men

Certification

ISO
9001

Quality Management System:
extension of certification
to the use of BIM methods

ISO
14001

Environmental Management System
for the Modena and Florence sites

ISO
45001

Occupational Health and Safety
Management System for the Modena
and Florence sites

Training & Technology

2.309

training hours

5%

of 2020 turnover
invested in
new equipment







Building for Humans

Our stories

Politecnica is a company made up of engineers, architects and technical experts, women and who create projects for people and share the vision of an integrated design of works respecting the communities: "Building for Humans".

Politecnica's projects are at the service of people.

41

members

156

collaborators

38

employees

47%

women

53%

men

Training and exchange of expertise

2.309

total training hours

10

average hours per employee

14

collaborations with organisations and training institutions



Welfare initiatives

100%

Supplementary Contract
coverage

Bank

Solidarity Time Bank

100%

workable time in agile mode

Flexible

entry/exit times







DIGITAL FORMAT

Our Annual Reports are documents designed with the aim of telling all our Stakeholders, in full transparency, “**who we are**” and “**what we do**”.

They are a sharing tool of Politecnica’s values, which we have decided to publish also in **digital format** as from 2019, to make it fully and easily accessible to all Stakeholders, in line with changing times.

HEAD OFFICE

Modeana
Via Galileo Galilei 220
41126, Italy

CONTACTS

Tel: +39 059 356527
Fax: +39 059 356087
Email: info@politecnica.it

WHERE WE ARE

Milan, Florence
Bucharest, Copenhagen
Malta

POLITECNICA.IT

