



RRC
rrc studio architects®

INTEGRATED
BUILDING
PROCESS



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BUILDING
PROCESS

SUSTAINABILITY

Recent estimates shows that the construction sector is responsible for **over 70%** of electricity consumption and for **38%** of CO2 in atmosphere (EIA 2008): this means that a correct energy saving policy in the properties, in all industrialized countries, would have significant effects on overall consumption.*

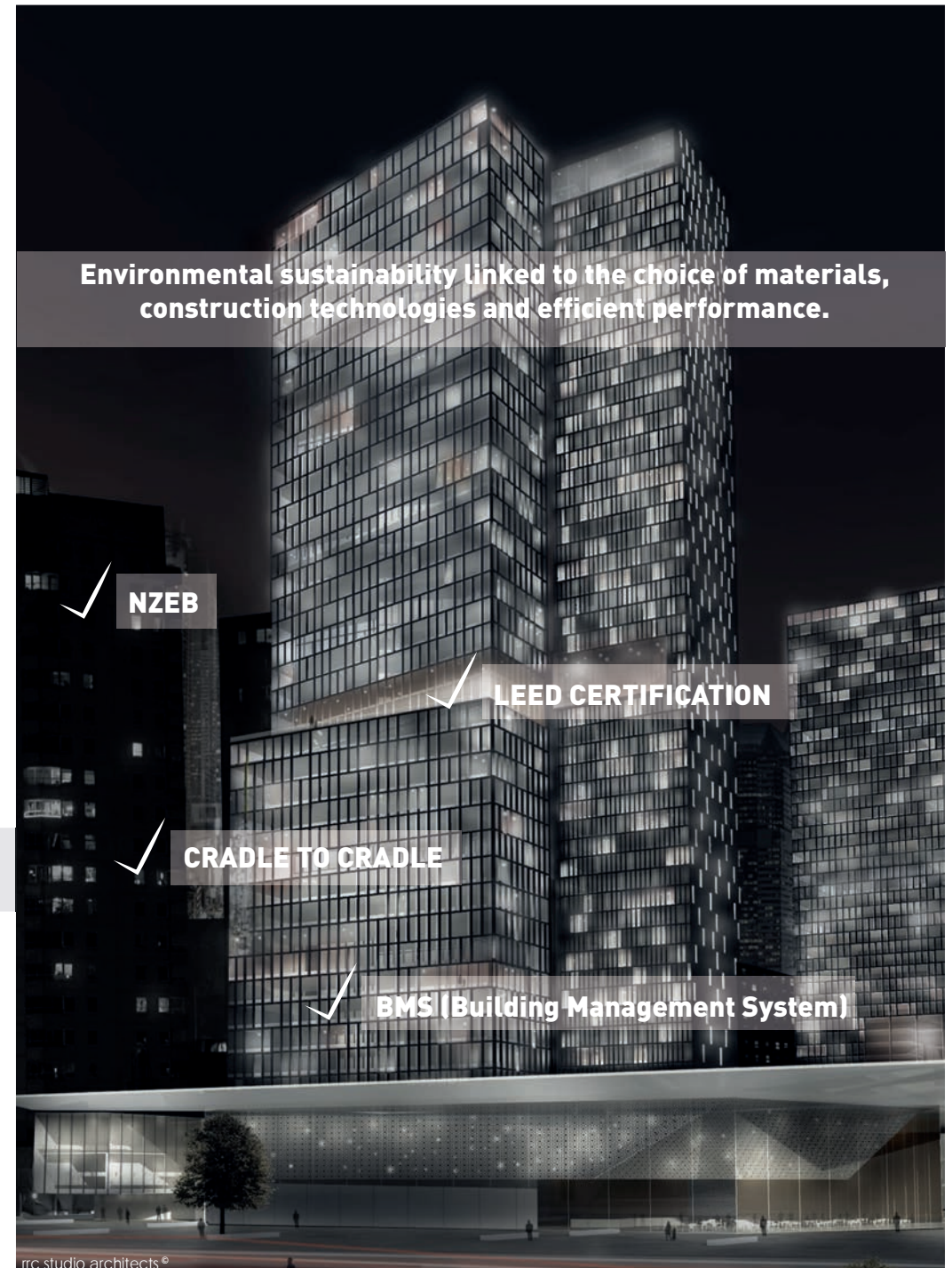
Energy and pollution are now the clusters around which will be built the future not only of the industrialized country, but also of the developing countries. Built saving energy and safeguarding the environmental well-being is the future of construction.*

The main objective in planning, design and construction of complex functional buildings is to **control energy consumption**. Therefore, it is essential to achieve high construction standards with a significant reduction in CO2 emissions, such as the **NZEB standard in Italy** (Nearly Zero Energy Building).

The minimum target of an intervention must be the provision of the **LEED® Gold Core&Shell certification**.

BMS (Building Management System) method allows monitoring and control of services such as heating, air conditioning, ventilation system, electrical systems, lighting management system, accounting and special systems, ensuring comfort and energy efficiency.

* source: certificazioneleed.com



INTEGRATED DESIGN SERVICES FOR ARCHITECTURE AND ENGINEERING

RESEARCH

RRC Studio projects are defined by an **holistic approach** allowing for enough flexibility to accommodate changes over the lifespan of a city, in order to meet market demands. The practicalities and concept of a space should be inherently flexible in order to **respond to changes**. A concept that incorporates a high level of standardised design will facilitate change.

RESPONSIBILITY

The practice endeavours to employ **technologies that sustain rather than pollute**, that are **durable** rather than replaceable, and that add value over time rather than falling prey to short term economies. Our main purpose is to integrate low energy design within the urban environment, **to design buildings to optimise passive solar energy, natural ventilation and daylight**.

COMPETENCE

RRC Studio is an **international architectural group** based in Milan, working on a range of different projects from more than fifteen years. In the practice exchange **philosophy is employed** at every level, to enable design and management leaders to collaborate and contribute their individual expertise.

RRC STUDIO develops different designs for different types of projects; each is unique and studied for a particular purpose.

We think it is essential to learn and develop the project, a dynamic process of sketches and technical drawings for the right solution

Our team guide the client to a **better understanding** of the complexity of the project



ARCHITECTURE



FACILITIES



PROJECT MANAGEMENT



INTERIOR DESIGN



ACOUSTIC



LIGHTING



MECHANICAL EQUIPMENT



LANDSCAPE



SUSTAINABLE PLANNING



MODELLING



PLANNING AND FEASIBILITY



SAFETY



AS BUILT



ENERGY PERFORMANCE

INTEGRATED BUILDING PROCESS [IBP]

IBP is an organizational technology. Controls - assists - informs - optimises. **THE BENEFITS**

1

SUSTAINABILITY

The IBP method provides for the use of materials and construction techniques sustainables; this allows to obtain solutions able to limit the impact on the environment.

2

ORGANISING

With the IBP method, the Customer is involved from the beginning and is always required his approval; this allows a better organization of all the process.

3

SPEED

The IBP method allows the elimination of all unexpected events, drastically reducing the execution times.

4

OPTIMIZATION COSTS

Cost audits during each phase of the process and the elimination of unforeseen events, allow to confirm the tender budget in the final phases, thus ensuring the optimization of all costs.

5

TRASPARENCY

The continuous involvement of the customer and his control in all the phases that make up the process, allow him to be always informed about everything that happens.

6

INTEGRATION

The IBP method involves the use of the BIM system, which facilitates the integration of the different actors throughout the construction process.

7

COMMUNICATION

Thanks to the IBP method, communication in the project is improved, keeping all the actors involved constantly updated

8

QUALITY

The best management of materials, relations with the construction company and the continuous request of the Customer's approvals, allow to obtain a high quality product.

9

SAVING

The best management of the process, guaranteed by the IBP method, ensures a reduction in the management costs of the completed work.

10

MAINTENANCE

The IBP method allows the creation of a high quality product, which reduces the costs for ordinary and extraordinary maintenance.

1

CONCEPT

The Client issues his requests and RRC STUDIO elaborates the Brief, a document containing the objectives, the general information and a preliminary cost assessment.

2

SETTING

RRC STUDIO prepares the Feasibility Study, the Initial Concept and the Preliminary Design.

3

PROCESSING

RRC STUDIO develops, through the BIM process, the Definitive and the Executive project and updates the project budget.

4

COMPANY'S CHOICE

The Client and RRC STUDIO select together the Construction Company and the Suppliers.

5

SCHEDULING

RRC STUDIO and the Construction company, through the BIM process, deepen the technical details of the Project and prepare the shipbuilding phases.

6

RISK MONITORING AND IMPLEMENTING

RRC STUDIO, together with the Construction Company, constantly monitors that the building site follows the planned schedule.

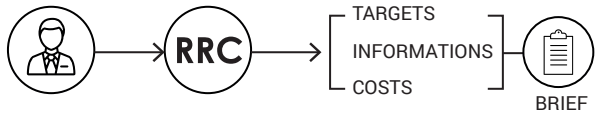
7

CLOSING AND REVIEWING

RRC STUDIO, as a result of compliance with the programming of the building site, provides for the closure of the works, preparing the necessary documentation for the testing phase.

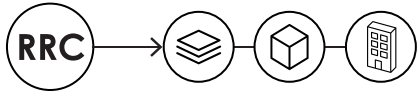


1
CONCEPT



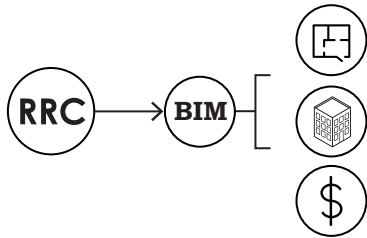
APPROVED ✓

2
SETTING



APPROVED ✓

3
PROCESSING

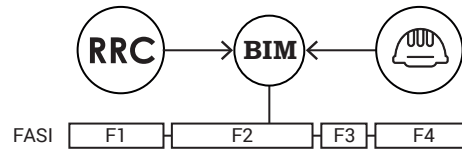


APPROVED ✓

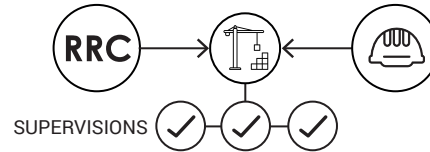
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COMPANY'S CHOICE



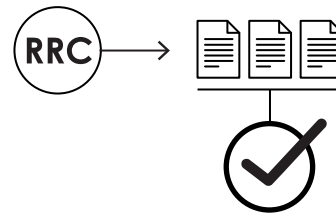
5
SCHEDULING



6
RISK MONITORING AND IMPLEMENTING



7
CLOSING AND REVIEWING



APPROVED ✓



Always aiming for perfection

The main objective in the design and construction of complex functional buildings is to control energy consumption.

Energy efficiency: NZEB _ LEED CERTIFICATION _ CREADLE TO CREADLE _ BMS (Building Management System)

RRC _ Responsibility, Research, Competence

Our team guide the client to a better understanding of the complexity of the project

BENEFITS

- | | |
|----------------------|-----------------|
| 1 SUSTAINIBILITY | 6 INTEGRATION |
| 2 ORGANISING | 7 COMMUNICATION |
| 3 SPEED | 8 QUALITY |
| 4 OPTIMIZATION COSTS | 9 SAVING |
| 5 TRASPARENCY | 10 MAINTENEANCE |

PHASES

- | | |
|----------------------------------|---|
| CONCEPT | 1 |
| SETTING | 2 |
| PROCESSING | 3 |
| COMPANY'S CHOICE | 4 |
| SCHEDULING | 5 |
| RISK MONITORING AND IMPELEMATING | 6 |
| CLOSING AND REVIEWING | 7 |



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