

Executive Part-Time Master
Sustainable Real Estate
and Building
Energy and Digital Transitions

Formerly Real Estate, Building & Energy

Mastère spécialisé Immobilier Bâtiment Énergie

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Director et academic head

2016

Summary



- 1/ Objectives, uniqueness, target
- 2/ Active industry partnerships
- 3/ Ten training objectives
- 4/ A study trip abroad
- 5/ A professional thesis
- 6/ The 2016-2017 class

1/ Objectives, uniqueness, target



- Objective: to train management executives and future management executives in sustainable real estate and building
- Uniqueness: to combine real estate skills (finance and law) with those related to building (architecture and engineering) under the aegis of sustainability
- Target: executives in the private and public sectors + open to several trainee executives with high potential (the part-time course enables working people to participate)

1/ Objectives, uniqueness, target



- A degree awarded by the Ecole Nationale des Ponts et Chaussées, established in 1747, founding member of:
 - the Paris Institute of Technology which is made up of 10 engineering and business Grandes Ecoles (Polytechnique, Mines, Telecom, HEC...),
 - the Paris School of Economics,
 - the Paris Est University
- A mastère spécialisé® programme with 75 ECTS (European Credit Transfer System) accredited by
- Fee: 16 000 €

2/ Active industry partnerships



MS Immobilier Bâtiment Énergie

5 companies, 2 Ministries and one research centre who enrol or finance from 1 to 4 executives per year

- A housing company (subsidiary of AXA)
- A promoter, property, facility and asset manager (subsidiary of Crédit Agricole Bank)
- An energy service company (subsidiary of EDF)







2/ Active industry partnerships



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A global materials manufacturer



- Ministry of Environment,
 Energy and the Sea
- Ministry of Housing and Sustainable Habitat
- The Scientific and Technical Centre for Building



MINISTÈRE DE L'ENVIRONNEMENT, DE L'ÉNERGIE ET DE LA MER

> MINISTÈRE DU LOGEMENT ET DE L'HABITAT DURABLE



- Ten training objectives
- 385 hours of teaching
- Eleven weeks spread out over one year
- Including a study trip abroad
- Correspond to 45 ECTS



- January (Week 1) Energy transition, third industrial revolution, real estate and building Coordinators Jean Carassus FRICS (Ecole des Ponts) Jean-Christophe Visier (CSTB)
 - Objective: convince a decision-maker to put in place a sustainable real estate and building policy
- February (Week 2) Sustainable towns and neighbourhoods
 Coordinator Bernard Lensel (Grand Lyon)
 - Objective: present, for a real estate development (new and renovation),
 the factors relating to the urban context: neighbourhood and town
- March (Week 3) User behaviour Coordinateur Pascal Plotegher FRICS (Poste Immo)
 - Objective: take into account the users in the design, construction and use of a building (new build and refurbishment)



- April (Week 4) Strategy and management of a real estate portfolio Coordinators Gilles Chamignon (Mercatena Gestion), Frank Hovorka MRICS (Caisse des Dépôts)
 - Objective: construct, finance and follow an environmental progress plan on the scale of a real estate portfolio
- June (Week 6*) Financing sustainable real estate and building Coordinators Arnaud Berger (Banque Populaire Caisse d'Epargne) Jan Verschueren MRICS (Generali Real Estate)
 - Objective: understand the needs of a financial decision-maker and give support to a sustainable real estate project

^{*} Week 5 is used for the study trip to another European country



- July (Week 7) Project management and energy Coordinators
 Jérôme Mayet (SETEC) Frédéric Gal (Bouygues Construction)
 - Objective: an initiation of project management (new or refurbishment),
 from financing to the end user
- September (Week 8) Brief Coordinator Gérard Lamour (Mission Interministérielle pour la Qualité des Constructions Publiques)
 - Objective: monitor a sustainable building brief (new and refurbishment)
- October (Week 9) Architectural, technical and economic design Coordinator Bernard Sésolis (Consulting engineer)
 - Objective: provide criteria for analysing the coherence and pertinence of a high-performance in terms of energy consumption and environmental quality (new and refurbishment)



- November (Week 10) Technical solutions (new and refurbishment) Coordinators Charles Pelé et Daniel Quenard (CSTB)
 - Objective: give an overview of the technical solutions available for highperformance buildings (energy and environmental impact)
- December (Week 11) Building operation and maintenance Marc Colombard-Prout, Sébastien Illouz (Caisse des Dépôts)
 - Objective: be able to explain and appreciate different ways of integrating the energy and environmental performance in the operation and maintenance of one or several buildings



- 16 module coordinators:
 - 7 from private sector
 - 9 from public sector
- 100 lecturers (excluding coordinators): 73 from private sector, 27 from public sector, 18 foreign lecturers (Austria, Belgium, Germany, Switzerland, United Kingdom)

4/ A study trip abroad



- In partnership with Geneva University, in 2012, the Swiss "2000 Watt society" concept and the Minergie® label in Geneva and Zurich, in 2013, sustainable city and buildings: comparison Lyon - Geneve
- In partnership with Leeds Beckett University and Salford University, in 2014, 2015, 2016, sustainable city and buildings energy efficiency.

5/ A professional thesis



- Theme chosen by the company or ministry and the Ecole des Ponts ParisTech
- Presentation of the thesis to a panel including a representative of the private company or ministry
- Corresponds to 30 ECTS
- The theses are presented during the following year in a public conference

6/ The 2016-2017 class



- 18 participants
- 9 from the different partners, 7 from other companies and 2 between jobs
- Initial education: 8 from technical education (engineers, technical university ...), 8 from business and political sciences, 2 from mixed education (technical and business)

6/ The 2016-2017 class



- 8 from private sector, 8 from public sector, 2 from non profit organizations
- Aged from 23 to 54, 35 on average
- 6 women, 12 men
- 2 from banks, 1 from an insurance company, 1 from a real estate company, 1 from an urban developer, 1 from a developer, 2 from real estate consultancy companies, 1 from a energy services company, 1 from a research centre, 2 from a manufacturer, 2 from non profit organizations, 4 from ministries

Further information



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The public website (in French):

www.enpc.fr/node/2200