

SCIENCES, TECHNOLOGIES, SANTÉ

Solar energy, law, economics and management (Droit, économie et gestion pour énergie solaire)

Master Energie solaire (Solar energy)



Durée
2 années, 4
semestres



Langues
d'enseignement
Anglais

Présentation



The Master program **SoLEM: Solar Energy, Law, Economics and Management**, is a highly innovative, new degree program preparing to tackle present and future challenges of the energy transition. It is a part of Solar Academy Graduate School recently awarded to University of Savoie Mont Blanc (USMB).

The Master program SoLEM is a two-year full-time Master's degree, composed of 4 semesters representing a total of 120 ECTS (officially integrated in the European Bologna system of higher education).

This master program is jointly developed by the School of Engineering (Polytech Annecy-Chambery), School of Business and Administration (Institut d'Administration des Entreprises IAE Savoie Mont Blanc) and School of Law (Faculté de Droit) at USMB.

Located on the Bourget-du-Lac Campus of INES (National Institute for Solar Energy), you will participate in high quality

education and multidisciplinary projects, stimulating your creativity and entrepreneurial skills.

Objectifs

The core training, based on economics, management and law, provides knowledge on how to apply the main

tools of economic analysis and develop an in-depth understanding of the energy transition, including its relationship with public policies, industrial transformations, business models, legal concepts and tools specific to the renewable energy sector, in particular solar energy.

Dimension internationale

Courses are taught, in English, by international experts and highly recognized partners from national and international research institutions and industry as well as by academic staff of USMB.

Disciplinary and international mobility, as well as immersion in an international research environment, are an integral part of the curriculum, bringing added value to students in terms of training and research. Grants for international mobility, awards for best projects as well as scholarships awarded for excellent academic results are available.

Les atouts de la formation

Innovative multidisciplinary education offers common introduction to economics and law, focusing on environmental economics and energy law (important challenges in the energy transition), and to engineering sciences, focusing on solar energy (highly growing sector of renewable energy) and on energy efficiency in building sector (responsible for over 40% of world primary energy consumption)

Projects and workshops complement this unique teaching experience.

M1 internship of 2 months.

Mandatory M2 internship of 6 months (February to July).

Excellence scholarships will be awarded to selected candidates, and funded by the Solar Academy Graduate School, in order to attract students with an excellent academic level and a real motivation (more information on the website).

Organisation

Effectifs attendus

12 students in M1 (2021)

Aménagements d'études

<https://www.univ-smb.fr/en/formation/amenagements-specifiques/>

Admission

Conditions d'admission

Bachelor's degree in economics and/or management, AES, law, geography and development.

Et après

Poursuite d'études

Ph.D. in Economics, Management, for solar energy deployment and energy efficiency, PhD in Energy Law within the Solar Academy Graduate Program or at a French university.

Poursuite d'études à l'étranger

Ph.D. in Economics, Management, for solar energy deployment and energy efficiency, PhD in Energy Law in a foreign university.

Métiers visés et insertion professionnelle

Administrative and support service activities | Specialised, scientific and technical service activities | Modelling activities
| Specialised, scientific and technical service activities

Infos pratiques

Contacts

Gestionnaire administratif

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Responsable pédagogique

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Etablissements partenaires

Partners of the Solar Academy Graduate School

🔗 <https://www.univ-smb.fr/solaracademy/partnerships/>

Campus

🏠 Le Bourget-du-Lac / campus Savoie Technolac

Programme

M1 - Solar energy, law, economics and management

Semestre 7

| | Nature | CM | TD | TP | Crédits |
|--|--------|-------|-------|-----|---------|
| UE701 Core Law | UE | | | | 4 |
| Bases of business law | EC | 10,5h | | | 2 |
| Bases of contract law | EC | 10,5h | | | 2 |
| UE702 Core Economics | UE | | | | 4 |
| Environmental economics and Externalities | EC | 21h | | | 2 |
| Economics of energy and climate policies | EC | 21h | | | 2 |
| UE703 Quantitative analysis | UE | | | | 4 |
| Advanced data analysis | EC | 15h | 15h | | 2 |
| Introduction to econometrics | EC | 19,5h | 10,5h | | 2 |
| UE704 Introduction to Solar Energy | UE | | | | 4 |
| Solar Thermal and Photovoltaic | EC | 12h | 4,5h | | 2 |
| Projet | EC | | | 4h | 2 |
| UE705 Sustainability for energy transition | UE | | | | 8 |
| International regulations | EC | 9h | 4,5h | | 2 |
| SEMINARS solar 1 | EC | 15h | | | 2 |
| Sustainability analysis | EC | 9h | 6h | 9h | 2 |
| Foreign language choice | CHOIX | | | | |
| Foreign language (French) | EC | | 30h | | 2 |
| Foreign language English | EC | | 30h | | 2 |
| Foreign language Other | EC | | 30h | | 2 |
| UE706 Introduction to research | UE | | | | 6 |
| Library research tools and methods | MODULE | | 4h | | |
| Literature review project | EC | 6h | | 24h | 6 |

Semestre 8

| | Nature | CM | TD | TP | Crédits |
|---|--------|-------|----|----|---------|
| UE801 Market and Energy Prices | UE | | | | 4 |
| Price dynamic modelling | EC | 12h | 9h | | 2 |
| International energy markets | EC | 21h | | | 2 |
| UE802 Adoption of renewables | UE | | | | 3 |
| Basics of finance fo project management | EC | 21h | | | 2 |
| Adoption of environmental innovations | EC | 10,5h | | | 1 |
| UE803 Urban planning and city | UE | | | | 2 |

| | | | | | |
|--|--------|-------|------|-----|---|
| Innovation in energy sector | EC | 15h | | | 1 |
| Urban Law, urban planning and territorial development | EC | 18h | | | 1 |
| UE804 Energy transition and public policies | UE | | | | 3 |
| Public policies assessment in econometrics | EC | 10,5h | | | 2 |
| Fiscal law and solar energy | EC | 9h | | | 1 |
| UE805 Introduction to Energy use in Buildings and Cities | UE | | | | 4 |
| Energy use in Buildings | EC | 6h | 15h | | 3 |
| Sustainable Urban Energy | EC | | | 4h | 1 |
| UE806 Energy Environment and Society | UE | | | | 6 |
| European regulations | EC | 9h | 4,5h | | 2 |
| SEMINARS Solar 2 | EC | 18h | | | 2 |
| Foreign language choice | CHOIX | | | | |
| Foreign language (French) | EC | | | | 2 |
| Foreign language English | EC | | | | 2 |
| Foreign language Other | EC | | | | 2 |
| UE 807 Innovation, creativity and research | UE | | | | 8 |
| Creativity through biomimicry for solar cities | EC | | 22h | | 2 |
| Research project | EC | | | 24h | 6 |
| Optional Internship/Work placement | MODULE | | | | |

M2 - Solar energy, law, economics and management

Semestre 9

| | Nature | CM | TD | TP | Crédits |
|--|--------|-----|-------|-----|---------|
| UE901 Advanced Business Models | UE | | | | 4 |
| Legal regim for production and use for solar electricity | EC | 18h | | | 2 |
| New Business models in energy industry | EC | 18h | | | 2 |
| UE902 Energy Efficiency and development | UE | | | | 4 |
| Energy efficiency in buildings | EC | 18h | | | 2 |
| Empirical case studies in energy efficiencies | EC | | 12h | | 2 |
| UE903 Energy transition and development | UE | | | | 4 |
| Longitudinal data models | EC | 9h | 9h | | 2 |
| Energy and sustainable development law | EC | 9h | | | 2 |
| UE904 Smart grids and smart city | UE | | | | 4 |
| Optimization of energy system | EC | 9h | 9h | | 2 |
| Smart grids and smart cities | EC | 18h | | | 2 |
| UE905 Urban development | UE | | | | 6 |
| Case study common project | EC | 9h | 10,5h | 16h | 2 |
| Urban planning and architectural integration | EC | 10h | | 3h | 1 |
| Performance indicators and information processing | EC | 6h | 12h | | 1 |
| Foreign language choice | CHOIX | | | | |

| | | | | |
|--|----|-----|-----|---|
| Foreign language (French) | EC | 30h | 2 | |
| Foreign language English | EC | 30h | 2 | |
| Foreign language other | EC | 30h | 2 | |
| UE906 Research and innovation project | UE | | 8 | |
| Research project | EC | 6h | 20h | 6 |
| Entrepreneurship, innovation challenge | EC | 6h | 4h | 2 |

Semestre 10

| | Nature | CM | TD | TP | Crédits |
|------------------|--------|----|----|----|---------|
| UE001 Internship | UE | | | | 30 |
| Internship | EC | | | | 30 |