THE PROGRAM

ORGANISATION OF THE MASTER'S PROGRAM

- A semester of **courses conducted in English** and structured around key **scientific themes**
- A semester-long **research internship** to be done in a public or private laboratory in France or abroad

Classes are taught by university professors, but also by professionals actively working in companies that have chosen to partner with this Master's program.

DETAILED LOOK AT THE PROGRAM STRUCTURE

Students will choose to focus on:

- **Two of the four major renewable energy themes:**

Photovoltaics:
Thin-film Photovoltaics - Photovoltaics Technologies in Industry - Polymers for Photovoltaics

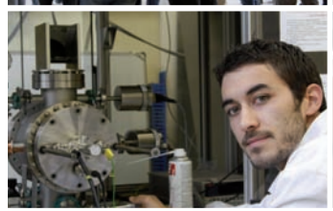
Energy Vectors and Storage:
Renewable Generation of Electricity using the Thermal Cycle-Hydrogen and Energy: Production, Storage, Fuel Cells, Economic Issues - Batteries and Energy Storage

Energy Distribution Networks:
Energy Transmission Grid Engineering - Integrating Off-Grid Energy into Smart Grids

Wind and Hydropower:
Wind Power - Fluvial and Maritime Resources for Renewable Energy

- **Cross-disciplinary courses from the following themes:**
  - **Resource Evaluation:** Energetic Potential of Wind, Solar and Hydropower Sources
  - **Biomass and Bioenergy:** Introduction to Biomass and Bioenergy - Specialization Course in Biomass and Bioenergy
  - **Socio-economic Issues:** New Energies and New Markets – Project Management, Innovation and Entrepreneurship
- **And the required courses:**
  - **Language Course:** English or French as a foreign language
  - **Topical Seminar Series** to build awareness about the various current and future technologies for generating and transporting energy



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A MASTER'S DEGREE OFFERED BY PRESTIGIOUS GRADUATE SCHOOLS AND INTERNATIONALLY RENOWNED INDUSTRIAL PARTNERS.

TOTAL

ÉCOLE POLYTECHNIQUE ParisTech

ParisTech
INSTITUT DES SCIENCES ET TECHNOLOGIES PARIS INSTITUTE OF TECHNOLOGY

EDF PSA PEUGEOT CITROËN SAINT-GOBAIN Schneider Electric

CUTTING EDGE TRAINING FOR SCIENCE AND TECHNOLOGY GRADUATE STUDENTS FROM THE WORLD'S LEADING UNIVERSITIES.

A program with a strong international emphasis

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An innovative system

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Science & Technology Excellence

ParisTech, École Polytechnique and Total, with support from EDF, PSA Peugeot Citroën, Saint-Gobain and Schneider Electric, are offering an international Master's degree program in Renewable Energy Sciences & Technologies focusing on generation, storage and distribution of energy for the future.

- **An academic program** that brings together several prestigious French graduate schools under the ParisTech banner.
- **Best-in-Class training** backed by renowned industrial partners who share with students their technical and scientific expertise as well as a professional approach.

MINES ParisTech · École des Ponts ParisTech · Chimie Paris ParisTech · TELECOM ParisTech · ENSTA ParisTech

ACADEMIC GOALS & CAREER OPPORTUNITIES

This highly scientific program is designed to:

- **Train researchers and engineers** who will help define and implement tomorrow's energy strategies and policies for major corporations, small trailblazing companies and public organizations.
- **Prepare graduate students** for careers in advanced research and management of renewable energies.

A few examples of job opportunities in research or business:

- Doctorate in an academic or industrial laboratory
- Expert and operational project manager for an energy agency or company
- Careers in technical, business and sustainable development fields for the energy sector
- Careers in energy strategies within major industrial groups
- Small business entrepreneur in the field of renewable energies

ÉCOLE POLYTECHNIQUE ParisTech · TOTAL · ParisTech INSTITUT DES SCIENCES ET TECHNOLOGIES PARIS INSTITUTE OF TECHNOLOGY

EDF · PSA PEUGEOT CITROËN · SAINT-GOBAIN · Schneider Electric

WHO IS THIS MASTER'S FOR?

Master's 2 degree in Renewable Energy Sciences and Technologies is designed for **graduates from the world's leading universities** that specialize in engineering, mechanics or physics.

Each year it trains some forty qualified students with a high level academic background from programs such as **the Master's in 21st Century Energies** at l'École Polytechnique or the **China-EU program at ICARE** (Institute for Clean And Renewable Energy).

HOW CAN I ENROLL?

Students interested in this program can submit their candidature file on-line via the program's website www.master-renewable-energy.com

Classes take place at the École Polytechnique campus in Palaiseau-Jouy.

http://www.master-renewable-energy.com
contact@master-renewable-energy.fr

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