Industry Roundtable – Careers in Sustainable Energy
EPFL – 3rd December 2015

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Growing opportunities in renewable energies: PV and wind mostly, plus hydro, biomass, CSP…

- Yearly installed new capacity and total installed new capacity between 2006 and 2030 by technology (2013 estimate)

The business model for power generation & distribution is changing and all the energy players need to re-invent themselves.
Many different players are involved in energy projects. All of them require highly diversified profiles for their experts.

- Equipment supplier
- Technical advisor
- Legal and Tax advisor
- Environmental and Social Impact Assessment
- Environmental & Permitting
- Energy Project Owner
- Banks
- Lender’s advisor
- Due diligence
- Legal and tax reviews

Requirements:
- Mechanical
- Electrical
- Civil
- Process / Chemical
- I&C
- Environment
- Project finance
- Generalists
- Legal / taxes
- Finance
- PhDs
- MBAs
- MSc
- BSc

- Market study
- Feasibility study
- Design & Engineering
- Tendering
- Implementation
- Construction supervision
- Engineering, Procurement, Construction (EPC)
Selected Projects Examples

**Floating and rotating PV plant >100 MW in Tunisia**
- Technical pre-feasibility study
  - Optimisation of PV plant configuration
  - Optimisation of rotation angle
  - Energy yield assessment over lifetime of the plant
  - CAPEX and OPEX estimation
  - Conclusions on the technical feasibility

**Electrification of Cameroon with Natural Gas**
- Pre-feasibility study
  - Situation Analysis of power sector in Cameroon
  - Assessment of different alternatives for power production and distribution
  - Cost comparisons
  - Selection of one solution
  - Assistance to client for project implementation

**Market study CSP vs. oil prices**
- Market study to assess the impact of dropping oil prices on the development of CSP

**Karadeniz Power Ships**
- Risk assessment for lenders
  - Review of technical concept
  - Review of project contracts
  - Review of business model
  - Red flag report
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