

Industry Roundtable – Careers in Sustainable Energy

EPFL – 3rd December 2015

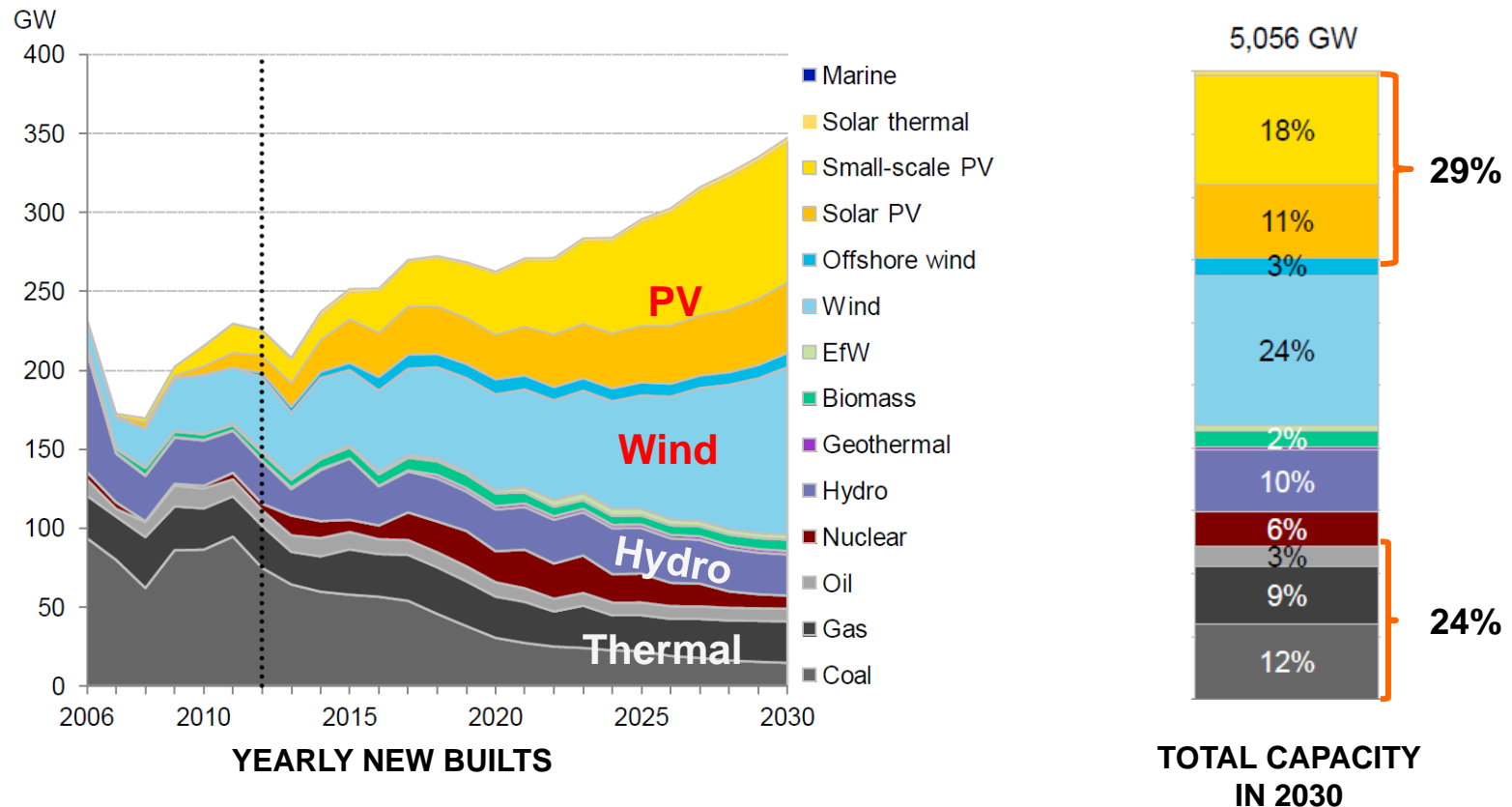


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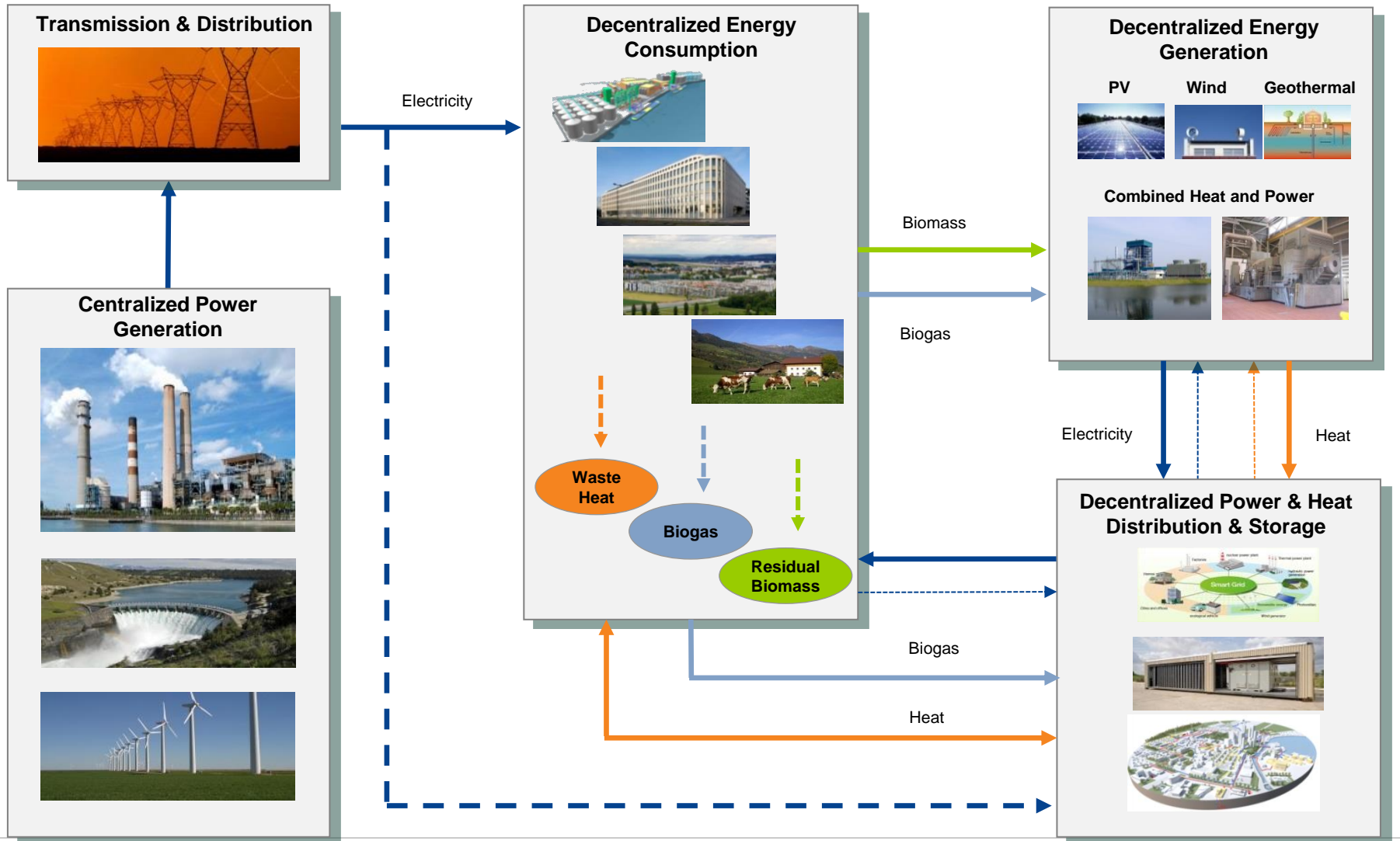
Growing opportunities in renewable energies : PV and wind mostly, plus hydro, biomass, CSP...

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

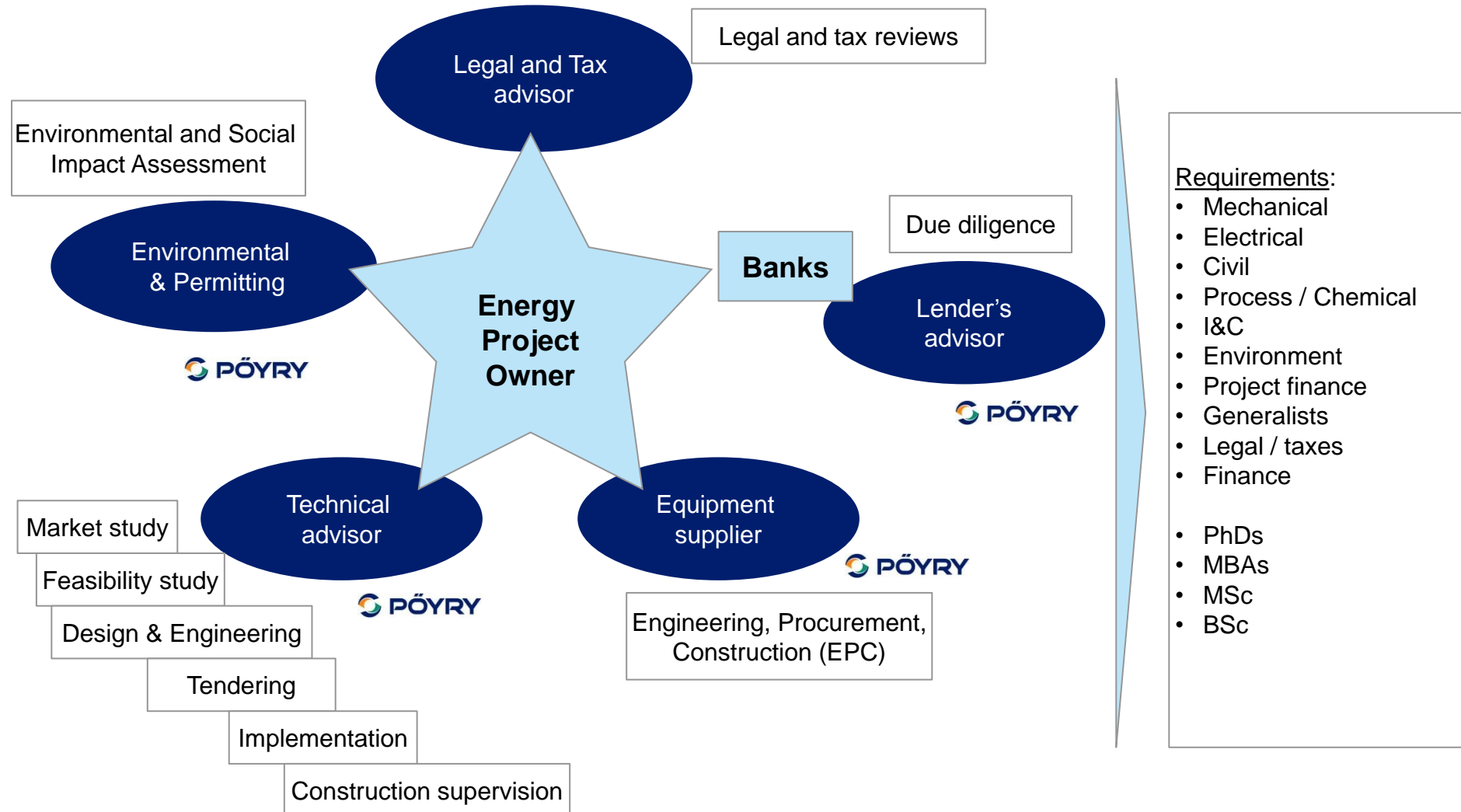


Source: Bloomberg New Energy Finance, Global Renewable Energy Market Outlook, 2013

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



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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