

## Context

- **Cop 21 objectives** include energetic transition, mobilising stakeholders : states, energy firms, territories,...
- Landscape architecture process, as a transdisciplinary method, could be interesting to manage the transition.
- The landscape architecture and energy chair was created at the National School of Landscape Architecture (ENSP) at Versailles in 2015, thanks to the french Ministry of Environment, Energy and the Sea and his founding partner, Rte.
- Studios are driven on **the topic of high-voltage power-lines**, since 2012 at ENSP.

**Hypothesis** : Landscape Architecture process, evaluated by studios, are an instrument to think the complexity of territorialised energy transition.



Figure 1 : Cover page of the studios reports from 2012 to 2016 at ENSP.

## Data and methodology

### DATA

- a studio is a pre-professional work. 2 to 5 students analyse and develop a research by design approach on a concrete topic, during 6 months.
- 6 studios, based on the topic of the renewable of high-voltage power lines, were proposed by partners from energetic firms (5 by Rte, 1 by ERDF).

### STUDY FRAMEWORK

- Text analysis with occurrence of each issue is reported quantitatively and qualitatively.
- A scoring is created to characterize the importance of issues and variables, described by adding up textual recurrences (indicators 0 to 3) of the 6 landscape studios analysed.

## Results

- High scores distinguish territorialised energy transition issues as essential focuses during the studios.
- Some participative process and programming of specific policies are less developed. This could be linked with the stage of development of the project for the professional partners.
- The studios enhance the knowledge of one another between energy businesses and landscape architects.

## Conclusion

- Energy transition interrogate **the renewal of stakeholder negotiation types** (from national infrastructures (= macro) to mixing geographic scales (micro, meso and macro) to manage production, transportation and consumption of energy.
- Landscape architecture process developed in these studios is demonstrated to be a **method well-adapted** to identify and support complex challenges of the energy transition.
- This method should be linked with other tools, to enhance and develop specific issues (e.g. biodiversity studies or participative ones). The studio evolutions, in its educational way at the ENSP, could be **more focused on the governance of spatial common goods**, objects of the landscape architecture process.

## References

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Figure 2 :Evaluation of issues treatment in publication of 6 landscape architecture studios about high-voltage power lines