



CLEANHORIZON
Detect, analyze, monetize

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Press release

Most cities can simultaneously reduce their carbon dioxide emissions and their final heat and electricity generation costs

The variety of renewable technologies available and the questions regarding future energy pathways for cities led Clean Horizon to build a tool to allow decision makers to assess the economic and environmental benefits of various technologies depending on their specific urban area.

Paris, March 2017 – A recent study realised by Clean Horizon as part of the “future of energy” program of the Tuck foundation shows that cities not only have a great potential for renewables, but renewable sources are cheaper than conventional oil-fired power plants up to a certain penetration.

The IDEpolis tool was built to help communities in the decision making process regarding their future electricity and heat generation. Testing the model on specific European cities showed that there were energy pathways that allowed to both decrease the current gas and electricity bills while increasing the renewables penetration.

This confirms that the energy policies need to be taken at a community level to enable urban areas to choose the most relevant energy pathway depending on their specific characteristics. Empowering communities regarding their electricity and heat generation would allow community projects to rise and specific urban constraints to be considered regarding renewables installation.

Several technologies were flagged as key on a technic economic basis to provide energy to cities: energy from waste plants constitute a cheap and reliable source of heat and electricity especially when coupled with district heating networks. Photovoltaic panels on rooftops can significantly contribute to the end user electricity use and thus reduce cities requirements for fossil fuel fired power plants. Finally, wind turbines are an efficient and cheap way to provide electricity in rural areas.

As the development of electric vehicles has started to increase drastically cities energy consumptions and prove the limits of the existing network infrastructure, distributed renewables and storage gain relevance in urban areas.

About Clean Horizon

Clean Horizon is a consulting company founded in 2009 and dedicated to energy storage. It has thus developed a deep expertise in electricity storage for grid and end-user applications. Clean Horizon also analyses the market by conducting permanent market and regulatory watch, as well as tailor-made market analysis adapted to each client's needs.

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