

# Towards Sustainable Energy Systems: The IEA's Energy Technology Perspectives



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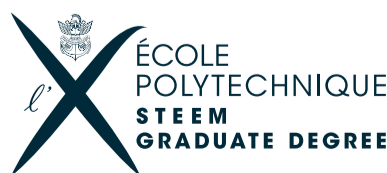
**École polytechnique**  
Amphi. Becquerel  
**16h 00**

Départements de Mécanique

**C**ities drive economic growth but can also drive sustainable change. As the share of the world's population living in cities rises, ambitious action in urban areas can be instrumental in achieving long term sustainability of the global energy system – including the carbon emission reductions required to meet the climate goals reached at COP21 in Paris. Support from national governments is a strategic prerequisite for leveraging the potential for sustainable energy technology and policy in cities that too often lies untapped.

With global energy demand set to become even greater over the coming decades, the International Energy Agency (IEA), through its *Energy Technology Perspectives (ETP 2016)* has evaluated the technology and policy opportunities available for accelerating the transition to sustainable urban energy systems. Such potential could be the key to successfully driving an energy transition that many still think impossible, provided that local and national actions can be aligned to meet the sustainability objectives at both levels. Indeed, policies still have a long way to go in this regard.

The presentation will give an energy outlook between now and 2050 for urban systems, under different scenarios (a business-as-usual case, one that includes the NDC's pledges in Paris, and ones that lead to a less-than-2 degree scenario). It will also highlight the implications for urban energy production and use in different sectors (transport, buildings, ...)



Conférence de l'Institut Coriolis pour l'Environnement de l'École polytechnique