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# Expert Committee for Prime Minister Abe

*November 19, 2018*

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Executive Vice President*

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**ENGIE**



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Achieving the objectives of the Paris agreement and succeeding in the energy transition require to take 3 steps, in the right order:

- Increase energy efficiency (consumption side, production + T&D infrastructure).
- Decarbonate
- Electrify.

Market design and energy policy must be defined in order to permit these steps.

- Power is only part of the problem and of the solution.
- Green gas makes the systems cheaper and more resilient.

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Cooling and Data Centers are major issues coming.

- 3,740 Mt : world total emissions of cooling sector (Green cooling initiative).
- Cooling is set to expand 625% by 2050 in selected regions of Asia & Latin America (IEA).
- Data Centers will account for 13% of the world's total electricity in 2030.
- NRDC estimates that half of this energy is going to waste.

Urban solutions is District Heating & Cooling Systems.

- 50% improvement in energy efficiency (vs stand-alone systems).
- 50% less CO2 emissions.
- 65% less water consumption.
- 35% less electricity consumption.

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In Japan, ENGIE can deliver fit-for-purpose integrated offers and operate systems in:

- DHC
- Energy efficiency
- Renewables including offshore wind
- Hydrogen



**Thank you**

