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Advance interviews are available. The full report, "Powering Innovation for a Sustainable Future," is available for preview at <http://bit.ly/IWAoR9W>.

Tech-related photos: <http://bit.ly/1KTYVRo>

Electricity Industry to UN Climate Conference: Combine New, Existing Technologies with Stable Policies to Reach CO2 and Energy Goals

Decarbonizing electricity: After 2 years of international consultations, world's leading utilities publish major report for Paris summit, catalog innovative means to help realize national CO2 pledges

An association of the world's leading electricity firms today lit a picture of a future high-tech enabled world energy mix that would help nations meet climate-related CO2 reduction pledges and the expanding demand for electricity.

In a report for the upcoming world climate summit (COP21, Paris, Nov. 30 - Dec. 11), the 11-member Global Sustainable Electricity Partnership catalog innovations and technologies in development industry-wide for the generation, distribution and storage of energy, as well as to reduce its use.

The report describes the outlook for some 50 existing and emerging technologies related to electricity **generation** (25), **systems** (11, e.g. grids, batteries and other means of energy storage), and **use** (14, e.g. energy efficiency, lighting).

It also outlines electricity trends in key regions and countries: Europe, USA, China, Japan, Brazil and India, stressing that an optimal combination of existing and new technologies will vary from country to country, even within geographical regions. Variables include the structure and state

of local and regional electricity systems, the availability of energy resources, the development of industry and the speed at which the less mature technologies improve in terms of performance and cost.

In an open letter, the group's top executives jointly underline four core policy-making principles needed to foster the industry innovation and investment required to meet ambitious climate and energy goals, beginning with secure, stable, clear, consistent and long-term policies and a system-wide perspective.

The report, *Powering Innovation for a Sustainable Future*, the outcome of a two year international consultation process, concludes: "Energy efficiency and technological innovation in the electricity sector are essential to both reduce emissions and improve the quality of life of citizens around the world. COP21 policymakers are well positioned to help accelerate the development and deployment worldwide of energy efficiency measures and of innovative technologies with effective policies."

With a combined total of 1.2 billion customers, the 11 GSEP utilities — American Electric Power (USA), Électricité de France, Eletrobras (Brazil), ENEL (Italy), EuroSibEnergó (Russia), Hydro-Québec (Canada), Iberdrola (Spain), Kansai Electric Power Company (Japan), RusHydro (Russia), RWE (Germany) and State Grid Corporation of China — delivered about one third of the world's electricity last year, of which approximately 60% was generated with no direct carbon emissions from hydro, other renewables, and nuclear.

The group has 2.4 million employees, 4,000 of them dedicated to research and development, and invests roughly \$3 billion in R&D each year.

In their open letter, the top executives urge policy makers to embrace four core principles:

1. Establish secure, stable, clear, consistent and long-term policies that address critically important energy, legal/regulatory economic development, financial and environmental matters with the goal of ensuring an adequate supply of cleaner, secure, reliable, accessible and affordable electricity to tackle climate change.
2. Develop a systemic approach to electricity systems which takes into account the interrelations and synergies between the various elements of the electricity value chain, in order to enable electricity providers to plan, design, construct and operate the most advanced electricity systems with the goal of providing cleaner, reliable, sustainable, secure, flexible, and resilient electricity infrastructures.
3. Promote and engage in public-private partnerships that facilitate decision making among electricity providers, government representatives, and private stakeholders and that foster the development and deployment of new commercially available technologies.
4. Make urgent progress with innovative research, development and demonstrations of advances economically viable technologies that will stabilize and reduce greenhouse gas emissions (GHG) and accelerate the efficient generation, delivery and end-use of electricity.

“Together, we are leading the way in the global effort to avoid, and reduce carbon dioxide emissions by optimising technologies in the right mix, amount, time and place,” the executives say. "By systematically optimising and applying the full portfolio of advanced technologies as they become commercially available, we believe that sustainable progress can be made over time to help meet global climate challenges.”

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About the Global Sustainable Electricity Partnership (GSEP, *globalelectricity.org*)

Based in Montreal, the Global Sustainable Electricity Partnership is a non-profit organization playing an active role on international global electricity issues and promoting sustainable energy development through electricity projects and human capacity building activities in developing and emerging nations worldwide.