

e7 open forum



**Private-public
Partnerships:**

**e7's Contribution
to Sustainable
Development**

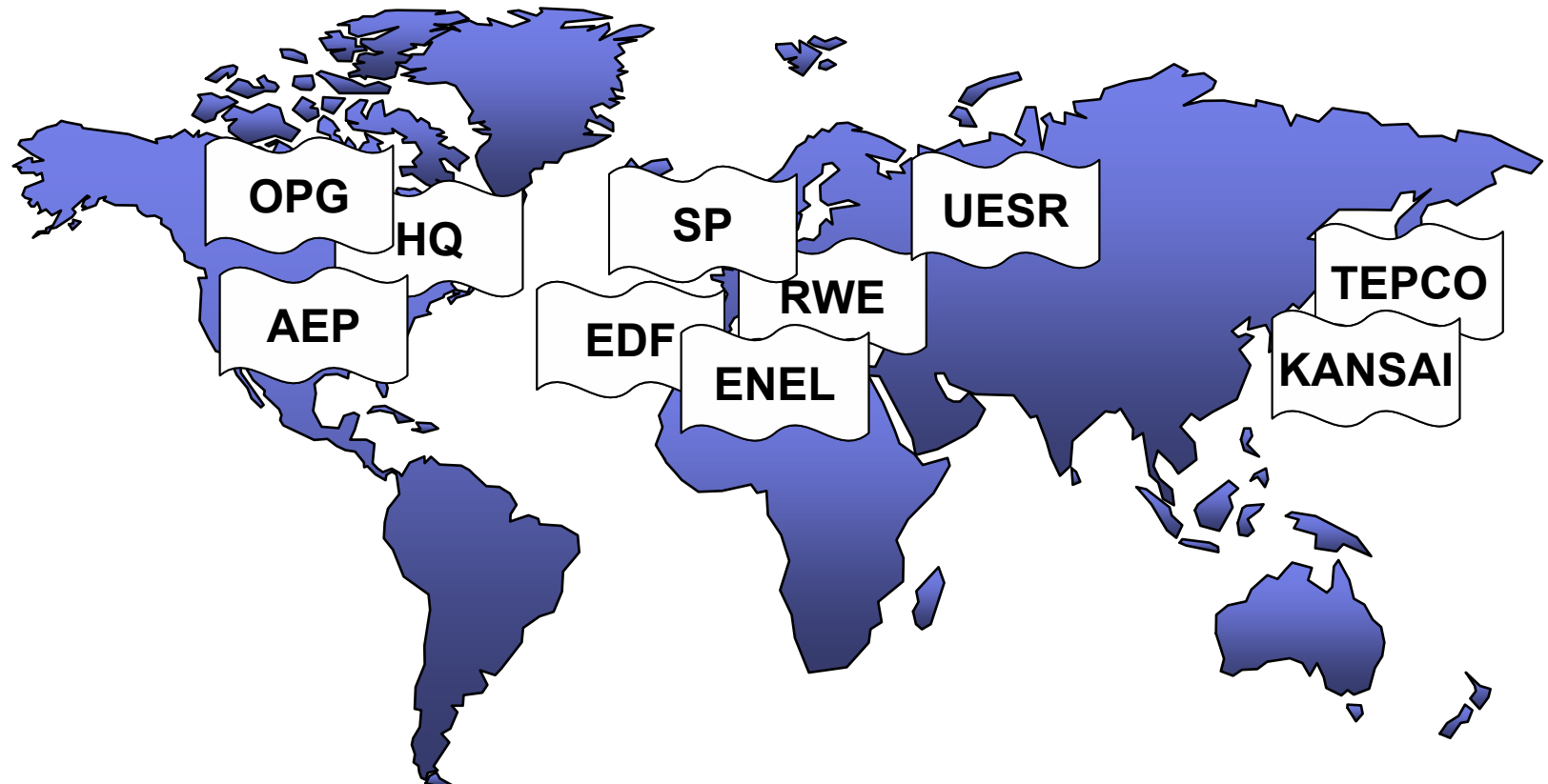
Opening address

**J.P. Bouttes,
e7 sherpa**

The e7 Member Companies



- 10 major electricity utilities from the G8 countries



The e7 Strategic Objectives



- **Develop joint policy frameworks and implement related initiatives**
- **Take joint positions on global electricity-related issues**
- **Provide human capacity building assistance on the efficient generation and use of electricity**
- **Demonstrate small-scale renewable energy projects**

A new context for electricity (\neq 90s)



- **Electricity and climate change**
 - ↳ Power generation: nearly 40% of global CO₂ emissions linked to energy use
- **Electricity and economic development**
 - ↳ Huge new investments in developing countries
- **Electricity in OECD**
 - ↳ Investments required to replace existing equipment
- **Electricity security of supply**
 - ↳ Rely on imported exhaustible resources
 - ↳ With higher gas prices, gas is no longer the miracle solution
 - ↳ Need to open generation options: diversification

With available technologies, electricity can contribute to reduce CO₂ emission

- **Demand side: significant potential for energy efficiency and energy savings**
 - ⇒ Building rehabilitation & insulation
 - ⇒ Energy efficiency labelling
 - ⇒ Development of innovative technologies like geothermal heat pumps
 - ⇒ Better consumer information and appropriate pricing
- **Supply side: opportunity of investment natural pace**
 - ⇒ Coal & gas plants: new equipment have lower CO₂ emitting rates
 - ⇒ Diversity of available CO₂-free technologies: large hydro and other renewables, nuclear

To prepare for the long term: increased effort in R&D



- **Expansion of low & CO₂ emission generation facilities**
↳ generation 4 nuclear, thin-layer photovoltaic...
- **Development of CO₂ capture & storage technologies**
- **Development of new efficient end-use technologies**

The electricity is capital-intensive with long life cycles assets



- **Time constraints**

- ✓ 3-10 years to build a plant, lifespan is 30-60 years

- **Financial requirements from now to 2030**

- ✓ US\$ bn 5000 in developing world ? US\$bn1400 in Europe? (IEA)

⇒ **Our energy mix can be transformed... progressively**

⇒ **Requirement for a favorable investment climate**

- ✓ long term visibility of objectives

- ✓ clear, coherent & stable regulations & market designs

Transfer of technology is key for economic development



- **Contribution of electricity to promoting the deployment of low & zero emitting technologies and other efficient technologies to the developing world**
- **Actively sharing knowledge can allow developing economies to leapfrog technology steps**
- **CDM can be an excellent and powerful tool but implementation to date has been limited**
 - ↳ Necessity to streamline the procedures
 - ↳ And to broaden the field of application

e7 commitment to sustainable development



- **30 human capacity building activities**
- **AIJ and CDM projects in Jordan, Indonesia and Bhutan**
- **Education for Sustainable Energy Development Scholarship Programme**



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