



WORLD ENERGY COUNCIL
COMITATO NAZIONALE ITALIANO
For sustainable energy.



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ASSOCIAZIONE ITALIANA di
Elettrotecnica, Elettronica, Automazione,
Informatica e Telecomunicazioni
SEZIONE DI MILANO

Le risorse energetiche mondiali: ieri, oggi, domani

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Milano, FAST, 7 aprile 2014

The energy challenge : rising demand, supply pressure

- ✓ 9 Billion of People, $\frac{3}{4}$ leaving in big cities
- ✓ 2 Billion of vehicles (today 800 millions)
- ✓ Many millions of people will rise out of poverty; with higher living standards energy use rises

- ✓ Energy demand could double from 2000 level while CO2 emissions should be reduced (to half?) to avoid serious climate change
- ✓ Twice as efficient, using half the energy to produce each dollar of wealth

Energy “4 A”

- ✓ **Availability:** identify the mix able to satisfy the demand for a sustainable development
- ✓ **Accessibility:** fight the energy poverty
- ✓ **Acceptability:** cost/benefit of infrastructures, avoiding the NIMBY (Not In My Back Yard) and BANANA (Build Absolutely Nothing Anywhere Near Anything) syndromes
- ✓ **Accountability:** responsibility and transparency of costs for the industrial system and the society