

WORLD ENERGY OUTLOOK

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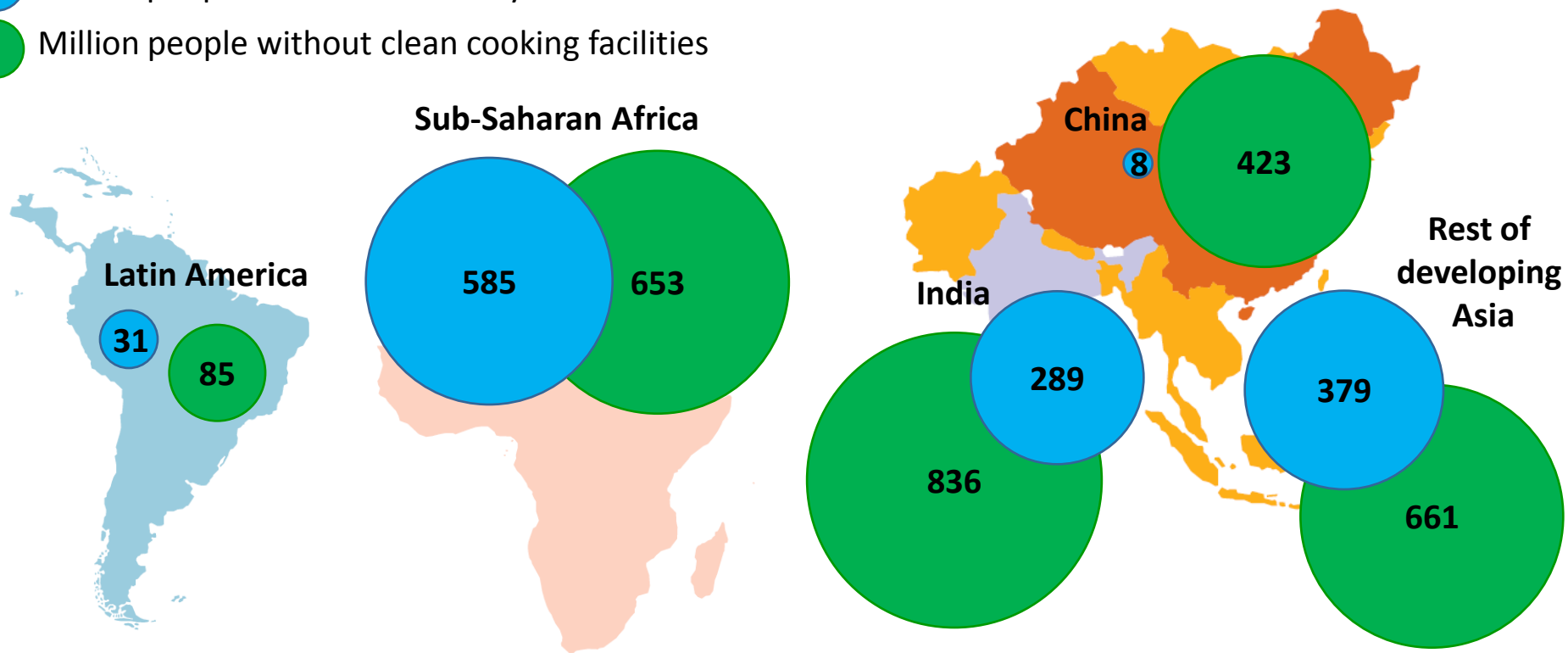
Special Report

Energy for all: financing access for the poor

Dr. Fatih Birol
Chief Economist
International Energy Agency
Energy for All Conference
Oslo, 10-11 October 2011

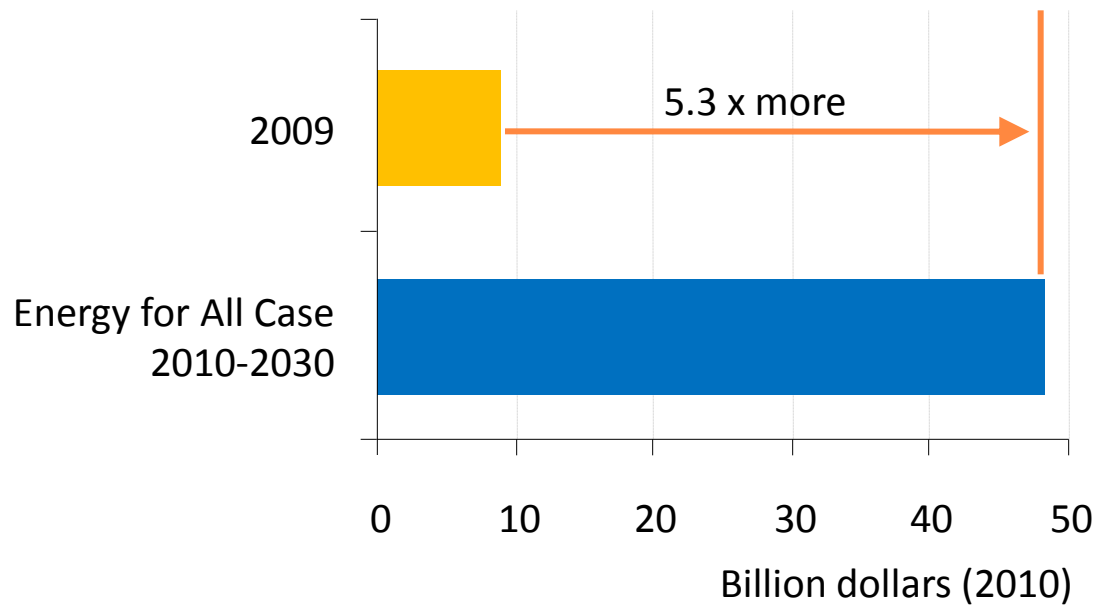
Energy poverty is widespread

- Million people without electricity
- Million people without clean cooking facilities



**1.3 billion people in the world live without electricity
and 2.7 billion live without clean cooking facilities**

Giving modern energy to the world will not cost the earth

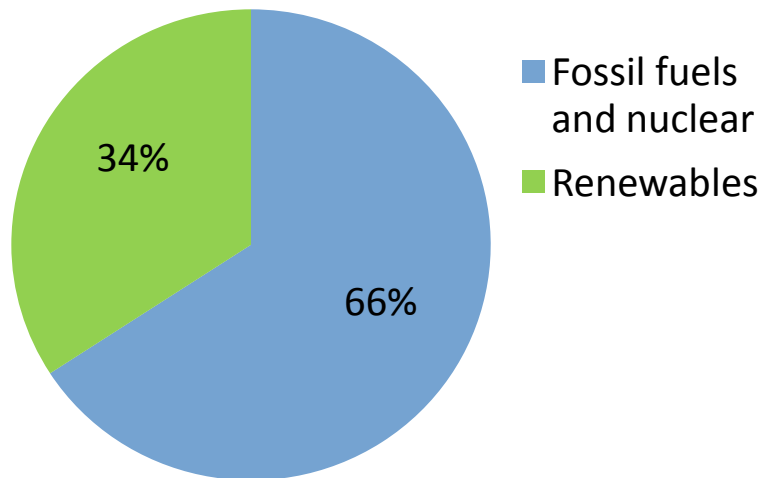


**Investment needs to grow by more than five-times to \$48 billion a year
– equivalent to around 3% of global energy investment**

All fuels have a role to play

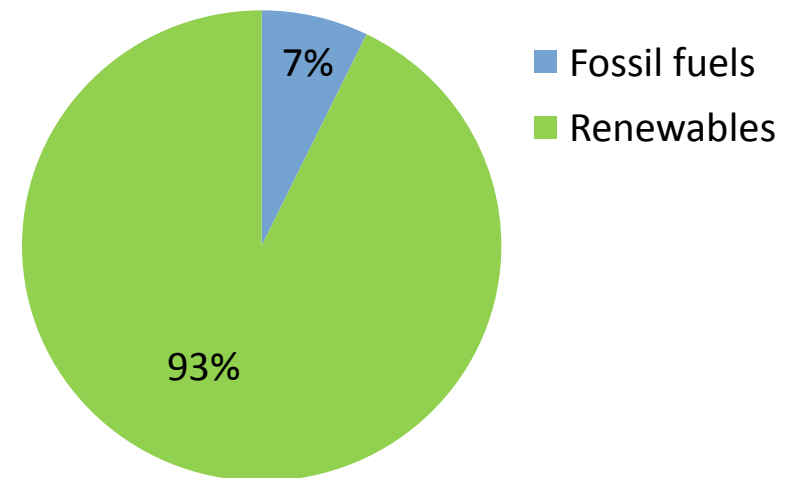
On-grid electricity generation

368 TWh



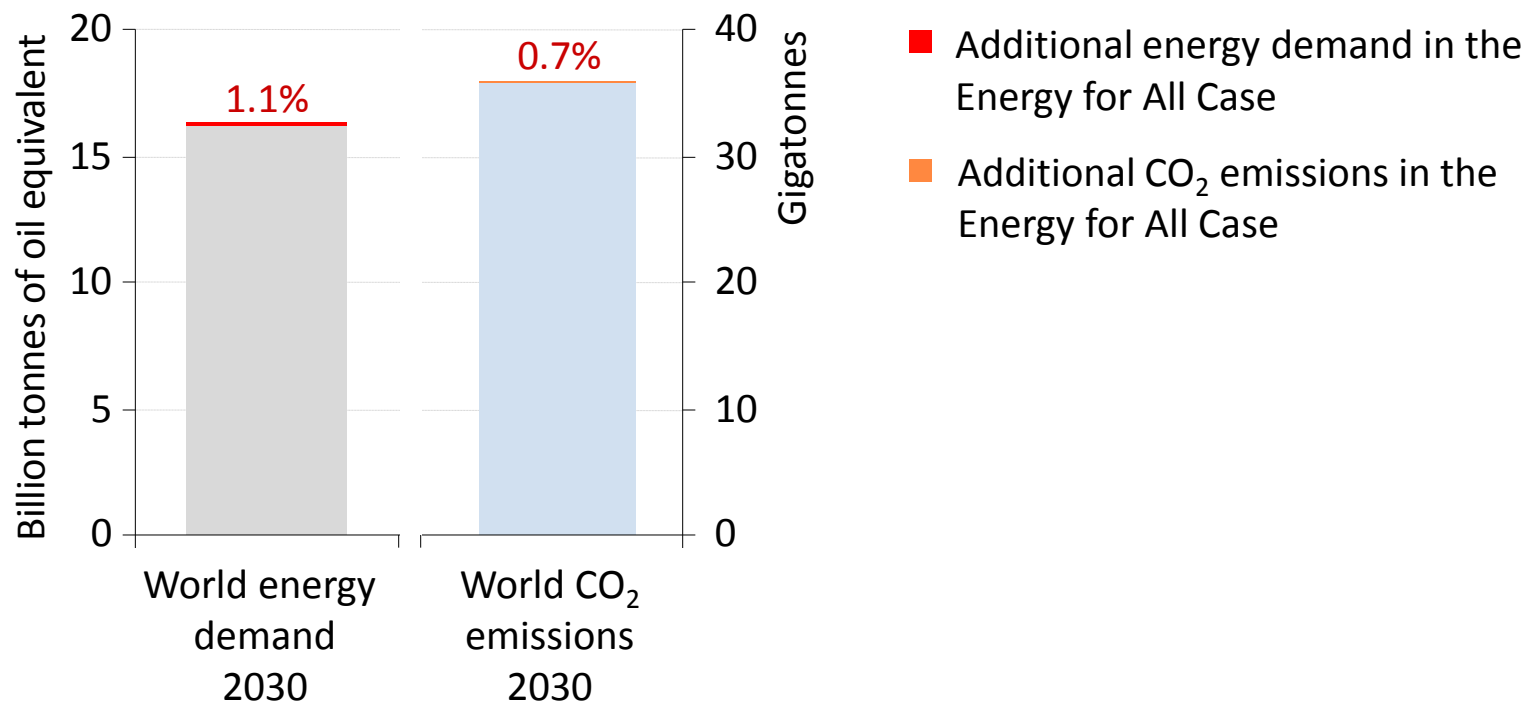
Mini-grid and off-grid electricity generation

470 TWh



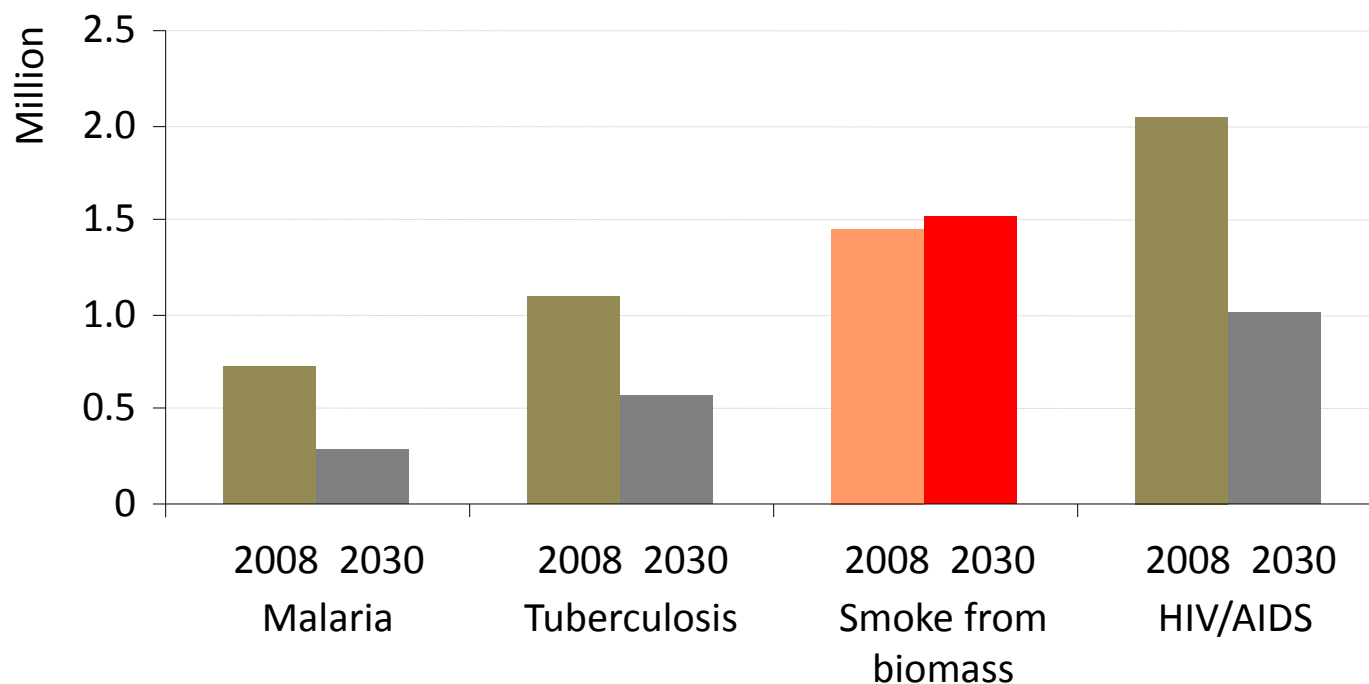
A range of technical solutions using different sources of energy is required

Implications of modern energy for all



Achieving modern energy for all would only have a negligible impact on energy security and climate change

Premature annual deaths from household air pollution and selected diseases



Clean cooking facilities would prevent the majority of deaths attributable to indoor air pollution from burning biomass

- *Modern energy is critical to social and economic development goals*
- *Affordable and reliable modern energy for all by 2030 is achievable*
 - *Adopt a clear statement that modern energy access is a political priority*
 - *Mobilise additional public and private investment in universal access*
 - *National governments need to adopt strong governance and regulatory frameworks and invest in internal capacity building*
- *The IEA is proud to co-organise this event; the World Energy Outlook has highlighted energy access for a decade and will continue to do so*