

A glowing globe of the Earth, rendered in shades of red and orange, positioned in the upper left quadrant of the slide.

***World Energy Outlook 2008:***  
**Energy and Development in Resource-  
Rich Sub-Saharan African Countries**

**IEA/Norwegian Ministry of Foreign Affairs  
Informal Brainstorming Meeting  
Maputo, 12 May 2008**

# International Energy Agency Members



Australia (1979)



Austria



Belgium



Canada



Czech Republic  
(2001)



Denmark



Finland (1992)



France (1992)



Germany



Greece (1977)



Hungary (1997)



Ireland



Italy (1978)



Japan



Korea (2002)



Luxembourg



The Netherlands



New Zealand



Norway participates in the  
Agency under a special Agreement



Portugal (1981)



Slovak Republic



Spain



Sweden



Switzerland



Turkey (1981)



United Kingdom



United States

Additionally, Poland is in process of becoming a member

# The *World Energy Outlook*

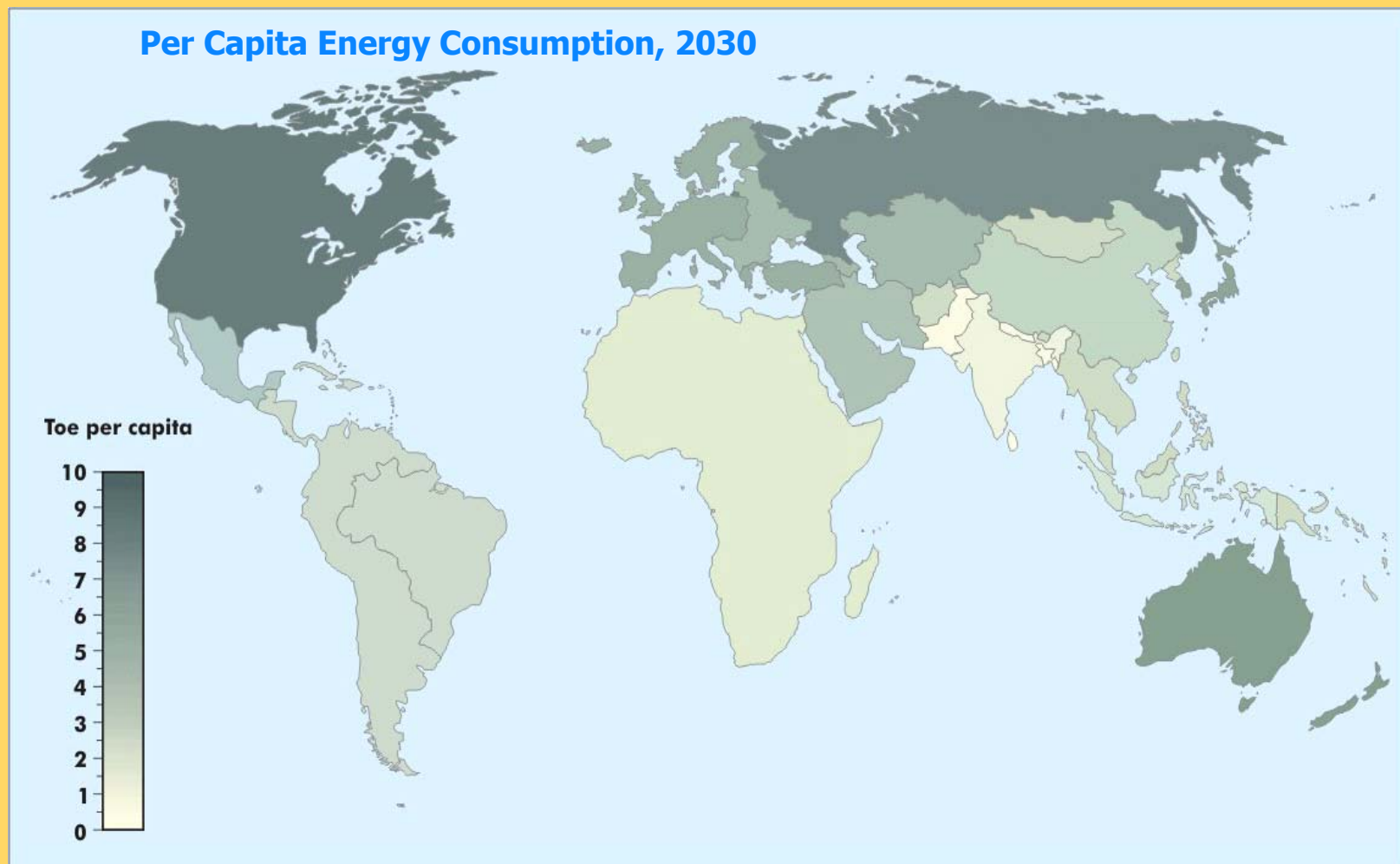
World  
Energy  
Outlook  
2008

- **The World Energy Outlook is the flagship publication of the International Energy Agency. It has long been recognised as the authoritative source of global long-term energy market analysis.**
- **In even-numbered years, the series provides energy demand and supply projections by fuel and by region through to 2030. It draws lessons for energy security, trade and investment, quantifies energy-related carbon dioxide emissions and assesses policies designed to reduce them.**
- **In odd-numbered years the series provides a systematic, objective and comprehensive analysis of a topical issue or challenge confronting the energy sector.**

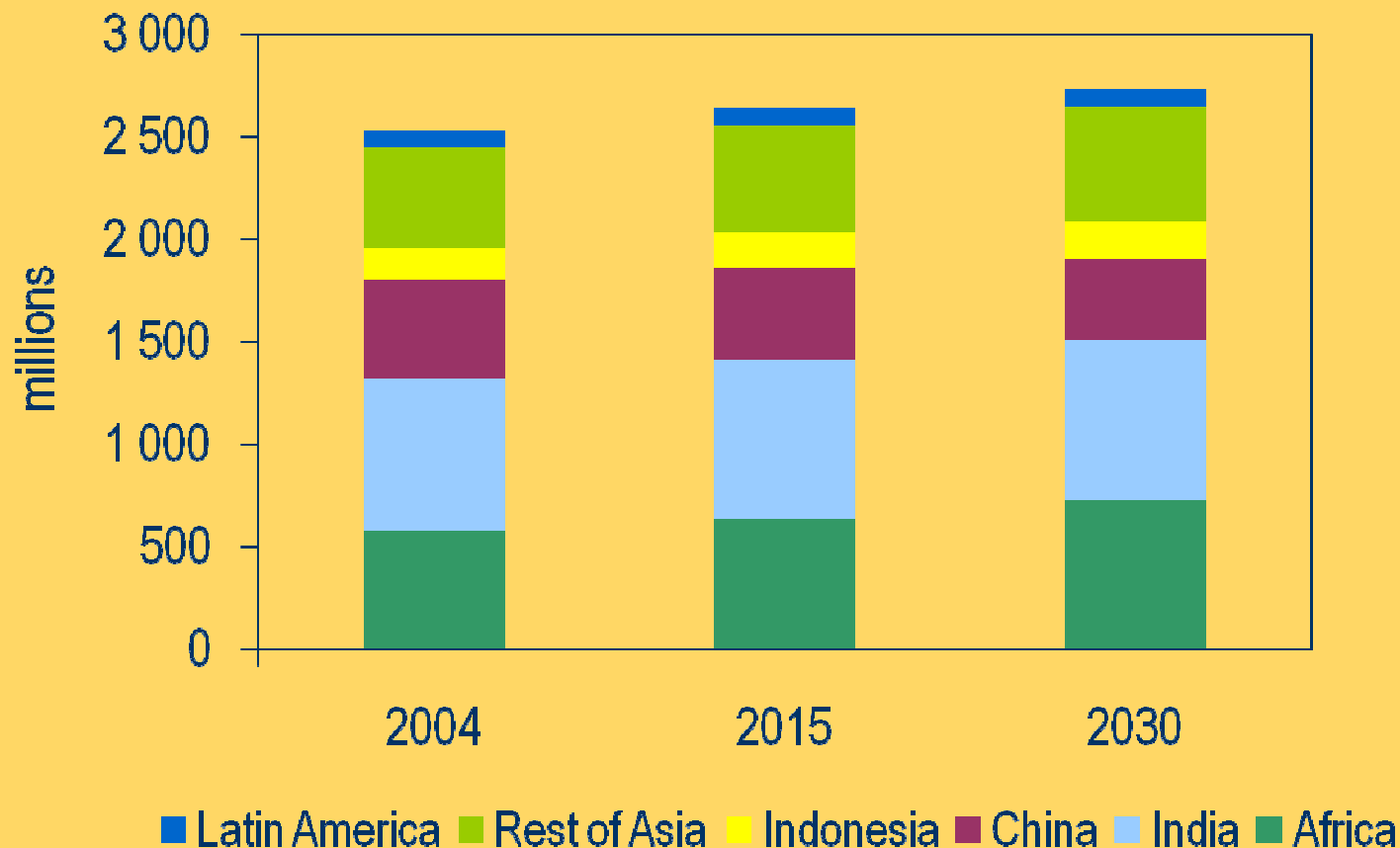
# Energy and Development in the World Energy Outlook:

- **WEO 2002: Energy and Poverty (WSSD)**
- **WEO 2003: Universal Electricity Access**
- **WEO 2004: Energy and Development**
- **WEO 2005: Electricity and Water Outlook in Middle East & North Africa**
- **WEO 2006: Energy for Cooking in Developing Countries**
- **WEO 2007: Energy Poverty in India**
- ***WEO 2008: Energy and Development in Resource-Rich Sub-Saharan African Countries (forthcoming)***

# Outlook for Energy Use in Developing Countries

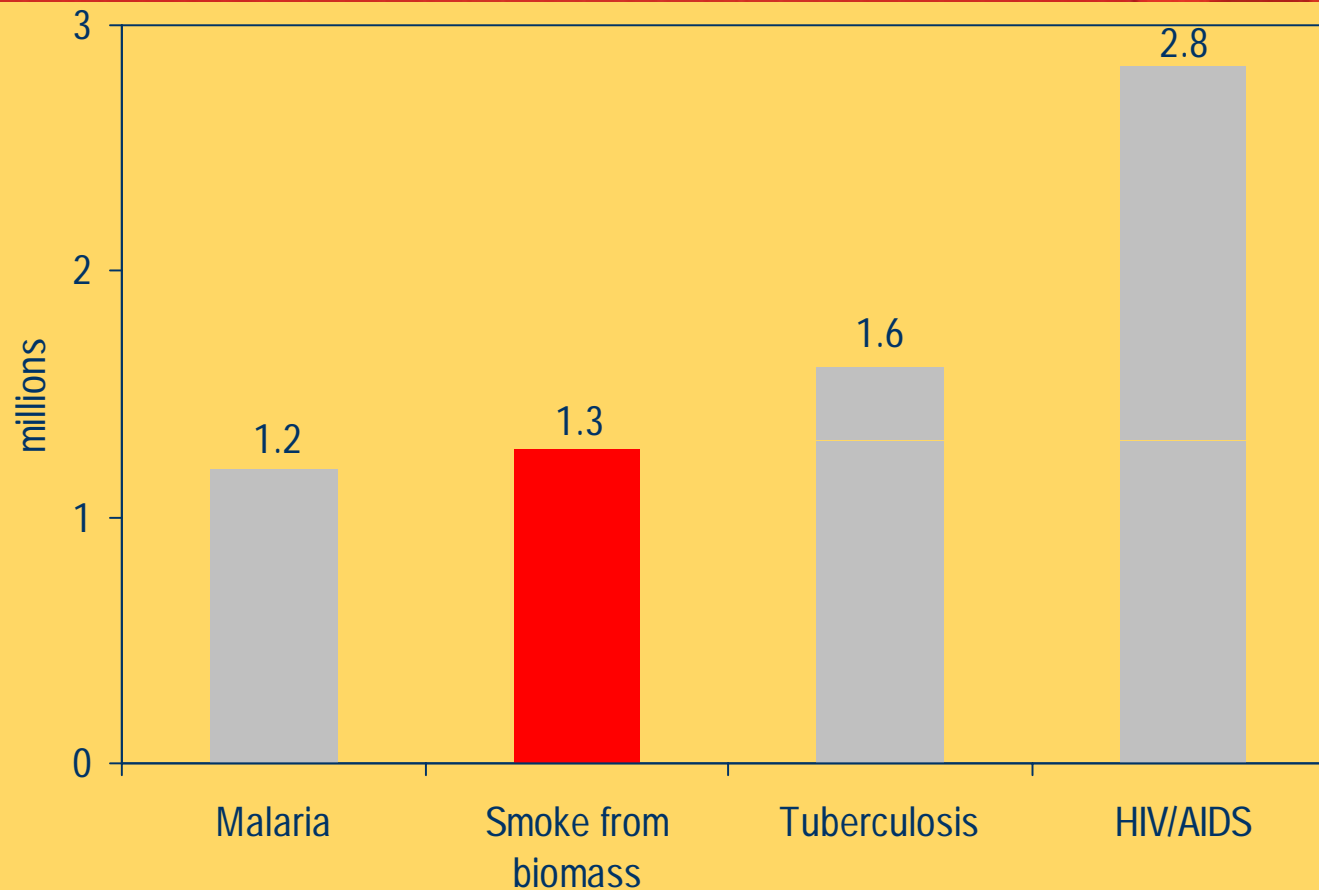


# Outlook for Number of People Relying on Traditional Biomass for Cooking



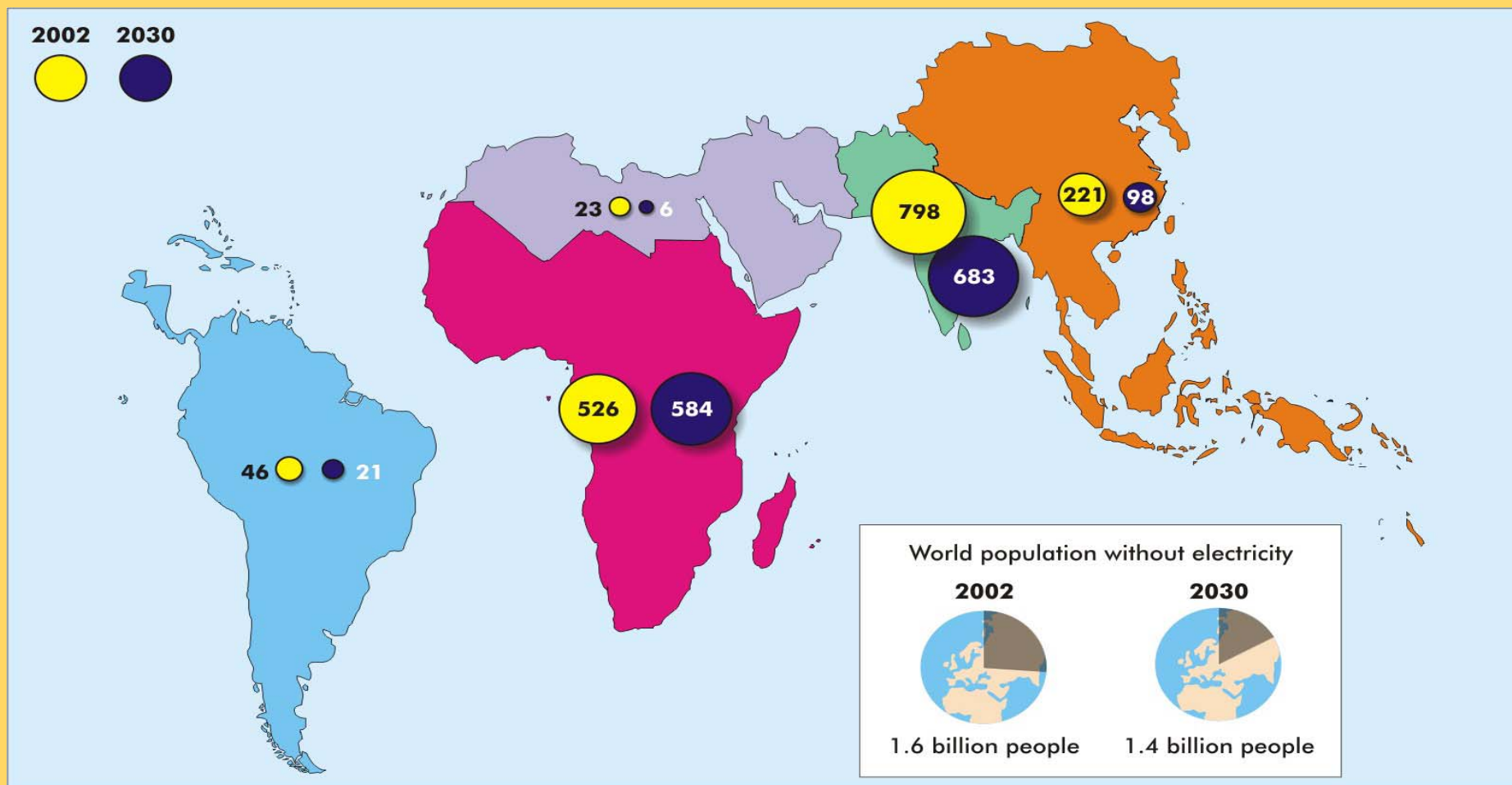
***Biomass accounts for over 90% of residential energy consumption in Sub-Saharan African countries***

# Energy Poverty & Health: Annual Deaths from Indoor Air Pollution



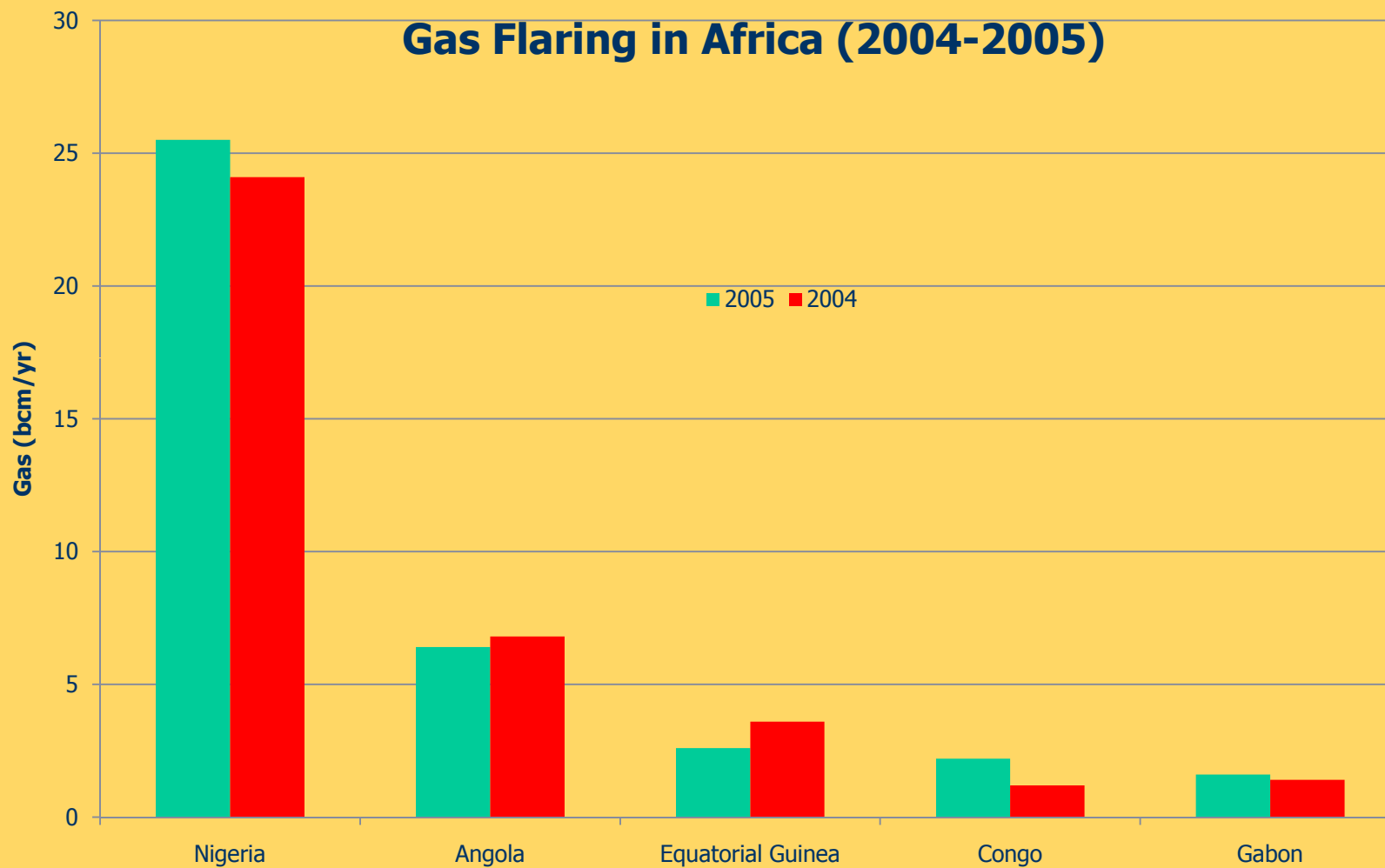
***Worldwide 1.3 million premature deaths per year are directly attributable to indoor air pollution from the use of biomass, with more than half of these deaths children under five years of age***

# Electricity Access to 2030





# Gas Flaring in Africa: One third of worldwide flaring



# World Energy Outlook 2008: outline

- **New set of projections to 2030, based on enhanced modelling capability**
  - > *Reference Scenario*
  - > *Alternative Policy Scenario*
- **In-depth analysis & modelling of headline issues**
  - > *Oil and gas supply prospects*
  - > *Post-2012 climate change policy scenarios*
  - > *Energy and development in Sub-Saharan African Countries*
- **Workplan & approach**
  - > *Close co-operation with industry, research institutes, financial institutions & other international organisations*
  - > *Brainstorming meetings (Copenhagen, Paris, Maputo)*
  - > *1st draft for peer review by 1 August, launch in London on 12 November*

# Organisation of the Meeting

- **Today's agenda**
  - > **Introduction**
  - > ***Session 1: Energy Access Needs* (Chair: S. Gitonga, UNDP)**
  - > ***Session 2: Supply, Exports and Consumption* (Chair: P. Nore, NORAD)**
  - > ***Session 3: Revenue Management* (Chair: L. Tessoro, UNDP)**
  - > ***Session 4: Structural and Financial Barriers* (Chair: K. Lissakers, RWI)**
  - > **Summary & Conclusions (Chair: K. Bennaceur, IEA)**
- **Informal meeting – Chatham House Rule applies**

A large, semi-transparent globe is positioned in the upper left quadrant of the slide, showing the continents of Africa and Europe. The background is a gradient of red and orange with a grid pattern.

***World Energy Outlook 2008:***  
**Energy and Development in Resource-  
Rich Sub-Saharan African Countries**

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**Session 1**  
***Energy Access Needs in Oil and Gas-producing Sub-  
Saharan African Countries***

# Session 1: Energy Access Needs in Oil and Gas-Producing Sub-Saharan African Countries

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- **Why is dependence on fuelwood and charcoal for cooking so high in oil and gas-rich African countries?**
- **Why is electricity access in these countries on par with oil and gas-importing countries?**
- **How can we foster regional cooperation, like the INGA projects, to facilitate energy access?**
- **What kind of subsidies are in place and have they been effective in increasing energy access to the poorest households?**
- **What is the impact of high oil prices?**
- **What role should renewable energy play in fossil fuel-exporting countries?**

The background of the slide features a stylized globe on the left, glowing with a red and orange gradient. The rest of the background is a dark red grid with a blue, glowing, arch-like shape at the bottom. The main title is centered in the upper half.

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**Session 2**

***Oil and Gas Supply in Resource-Rich Countries, Expected  
Revenues and Domestic Consumption***

## Session 2: Oil and Gas Supply, Expected Revenues and Domestic Consumption

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Outlook  
2008

- **What is the potential for oil and gas supply in Sub-Saharan Africa?**
- **How can governments and companies accelerate the ending of gas flaring?**
- **Assuming that the resources will be extracted, how do governments decide how much to consume domestically and how much to export?**
- **How do governments decide on whether to use domestic petroleum products vs. importing them?**
- **What is the role of national oil companies vis-à-vis international oil companies?**
- **What is the impact of civil unrest on investment and production?**

The background of the slide features a red-to-blue gradient with a grid pattern. A large, semi-transparent globe is visible in the upper left quadrant. The main title is centered in the upper half, and the session title is in the lower right.

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**Session 3**  
***Revenue Management: What Works and What  
Does Not Work***



# Session 3: Revenue Management: What Works and What Does Not Work?

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- **What type of fiscal regime with respect to energy production is best suited for efficient revenue management?**
- **Would distribution of revenues to local authorities be conducive to expanding energy access?**
- **What is the role for international mechanisms like EITI, Revenue Watch?**
- **What is the role for the WB and IMF?**
- **Which players should be held accountable?**

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**Session 4**

***Overcoming Structural and Financial Barriers and  
Managing Revenues to Expand Energy Access***

# Session 4: Overcoming Structural and Financial Barriers and Managing Revenues to Expand Energy Access

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Energy  
Outlook  
2008

- **What are the structural and financial impediments to the introduction of LPG?**
- **What are the costs of expanding the penetration of electricity and LPG in rural areas?**
- **What can governments do to develop local capacity, given that it is crucial to ensure that revenues benefit the energy poor?**
- **How can governments prioritise investment needs and energy production needs?**
- **What policies are most successful in expanding access?**

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***Summary & Conclusions***