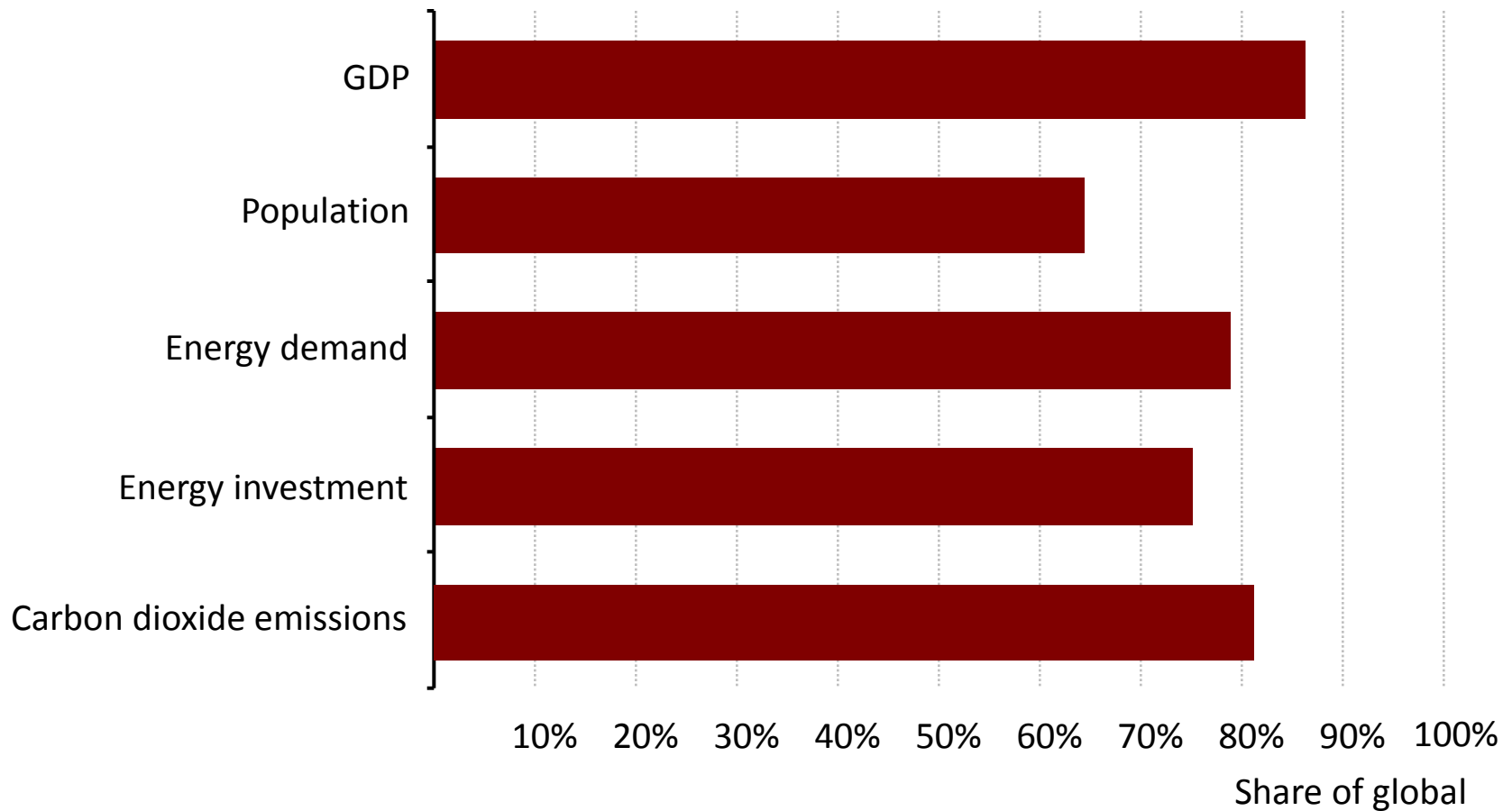


On the road to the Antalya G20 Summit

Dr. Fatih Birol
Chief Economist

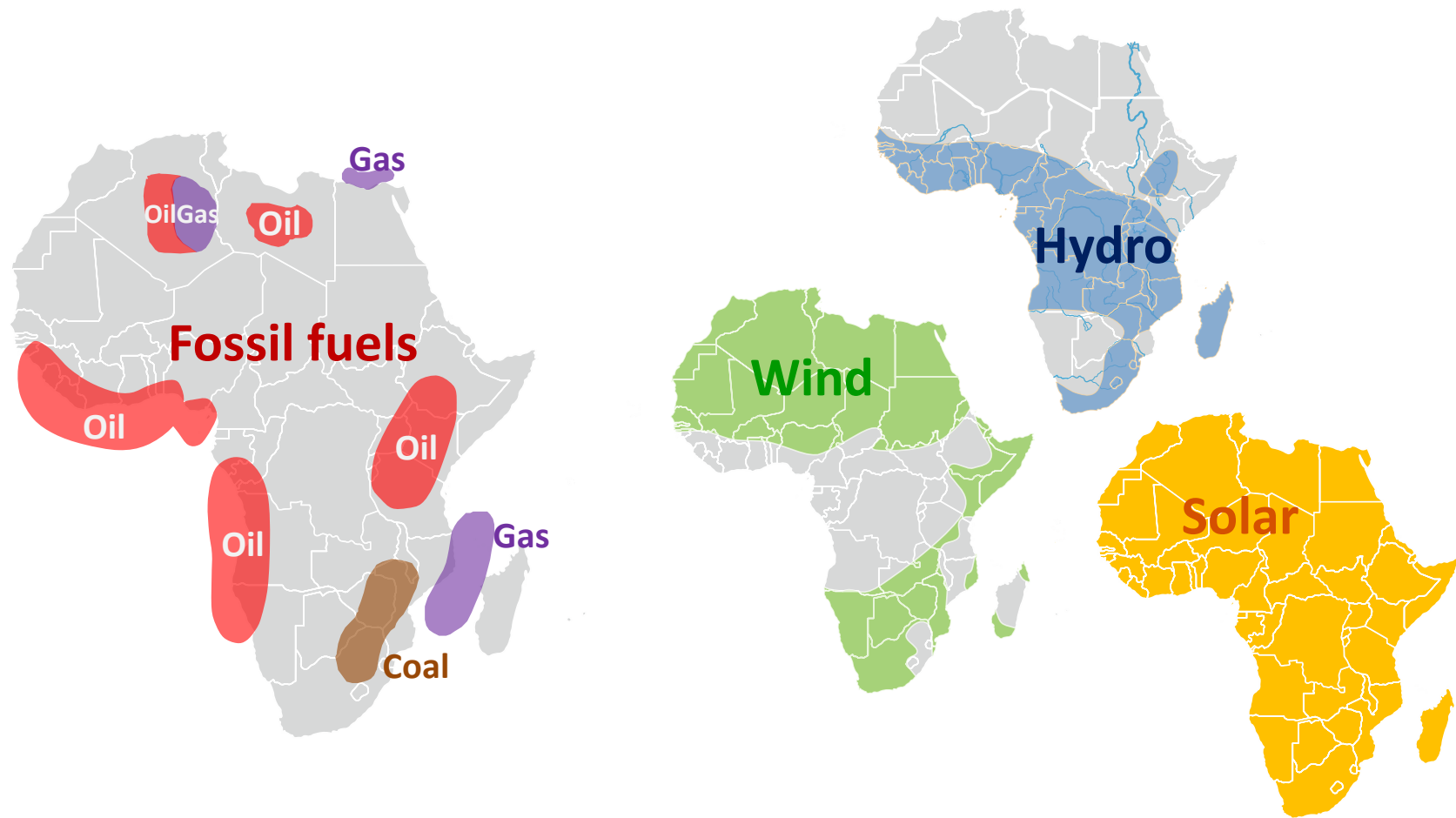
International Energy Agency
Istanbul, 15 May 2015

The G20 share of key indicators



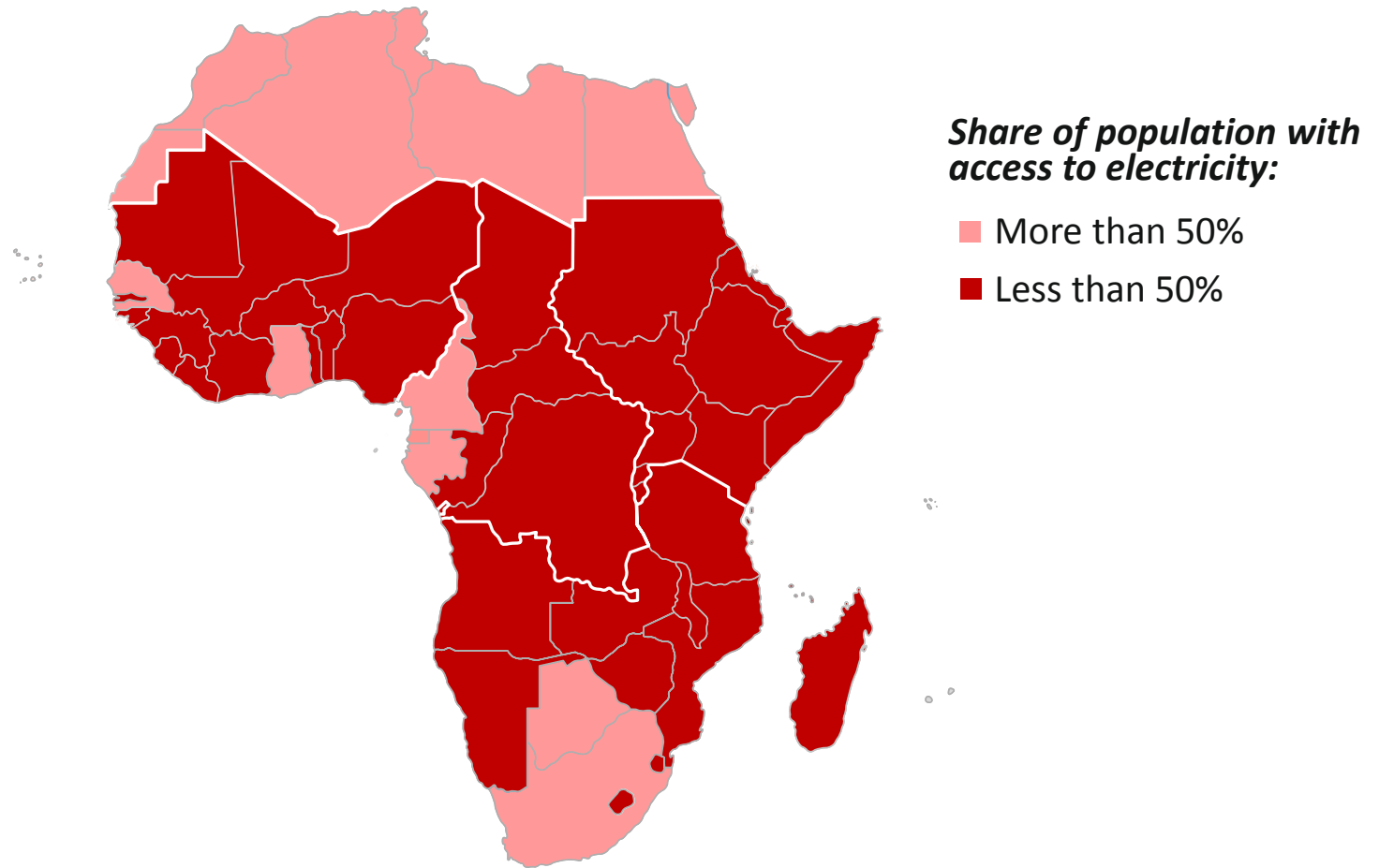
The G20 has a key role to play on energy issues due to its sheer weight in global balances and as energy security & climate challenges go beyond national boundaries

Africa: Rich in resources



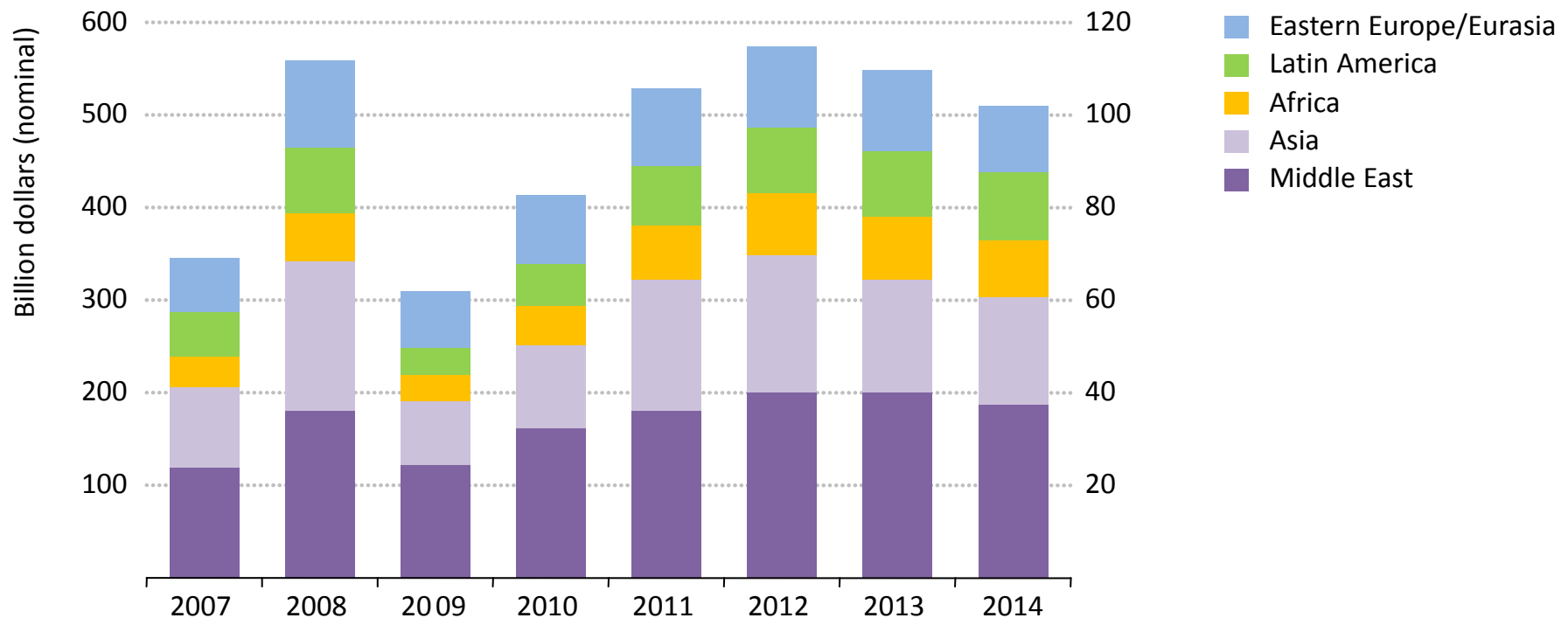
In the last 5 years, almost 30% of global oil & discoveries were in sub-Saharan Africa; the region has vast untapped renewables potential, notably hydropower & solar

Africa: Rich in resources, but poor in supply



Inclusive & robust economic growth is impossible without energy access; two-thirds of the population in sub-Saharan Africa (620 million people) still live without electricity

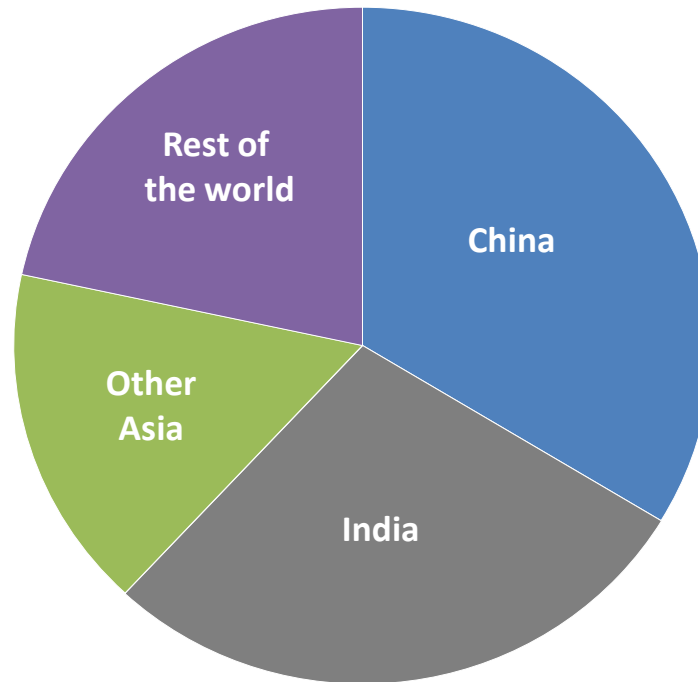
Fossil fuel subsidies impose enormous economic, social & environmental costs



Momentum for reform is building – including in India, Indonesia & Mexico – yet fossil fuel subsidies still totalled around \$500 billion in 2014, or 4 times those to renewable energy

As coal remains the backbone of many power systems, action is needed to mandate high-efficiency plants

Projected coal-fired plant additions
2014 – 2040

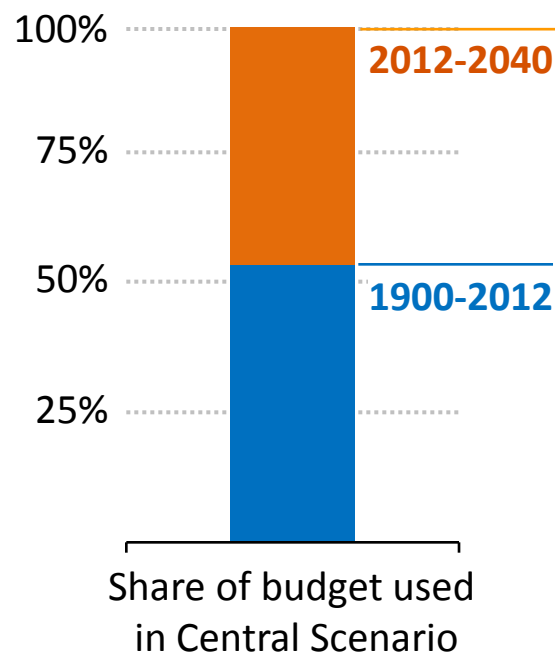


1 365 GW

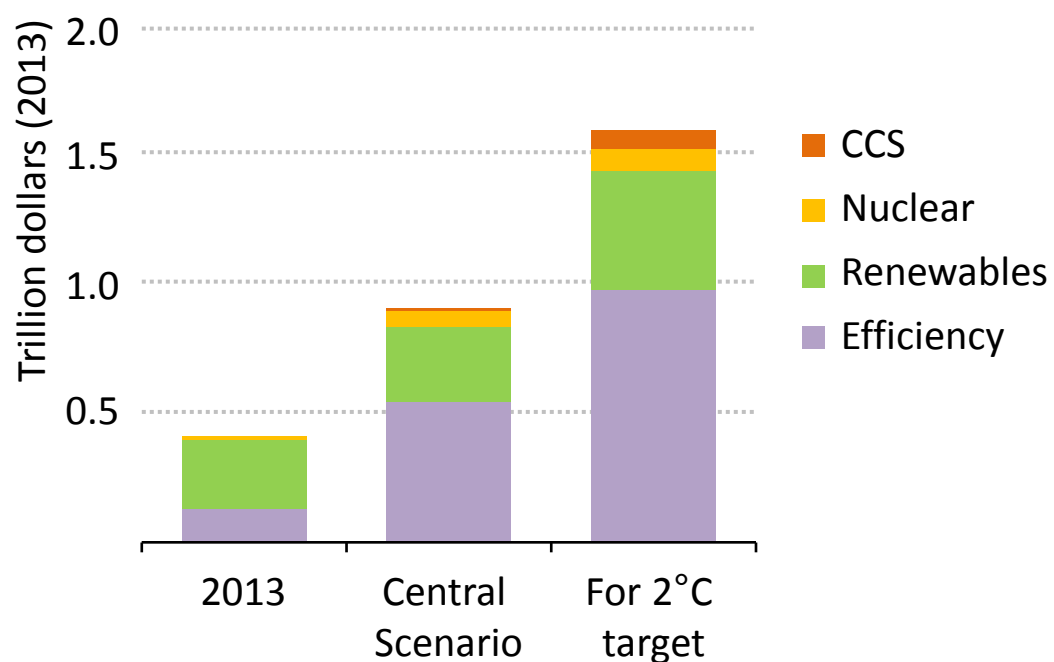
Each – and every – percentage point improvement in the efficiency of the coal-fired fleet, cuts global coal use by almost the current demand of Germany

Antalya to Paris – the last chance to reach the 2°C goal ?

World CO₂ budget for 2 °C ~2300 Gt



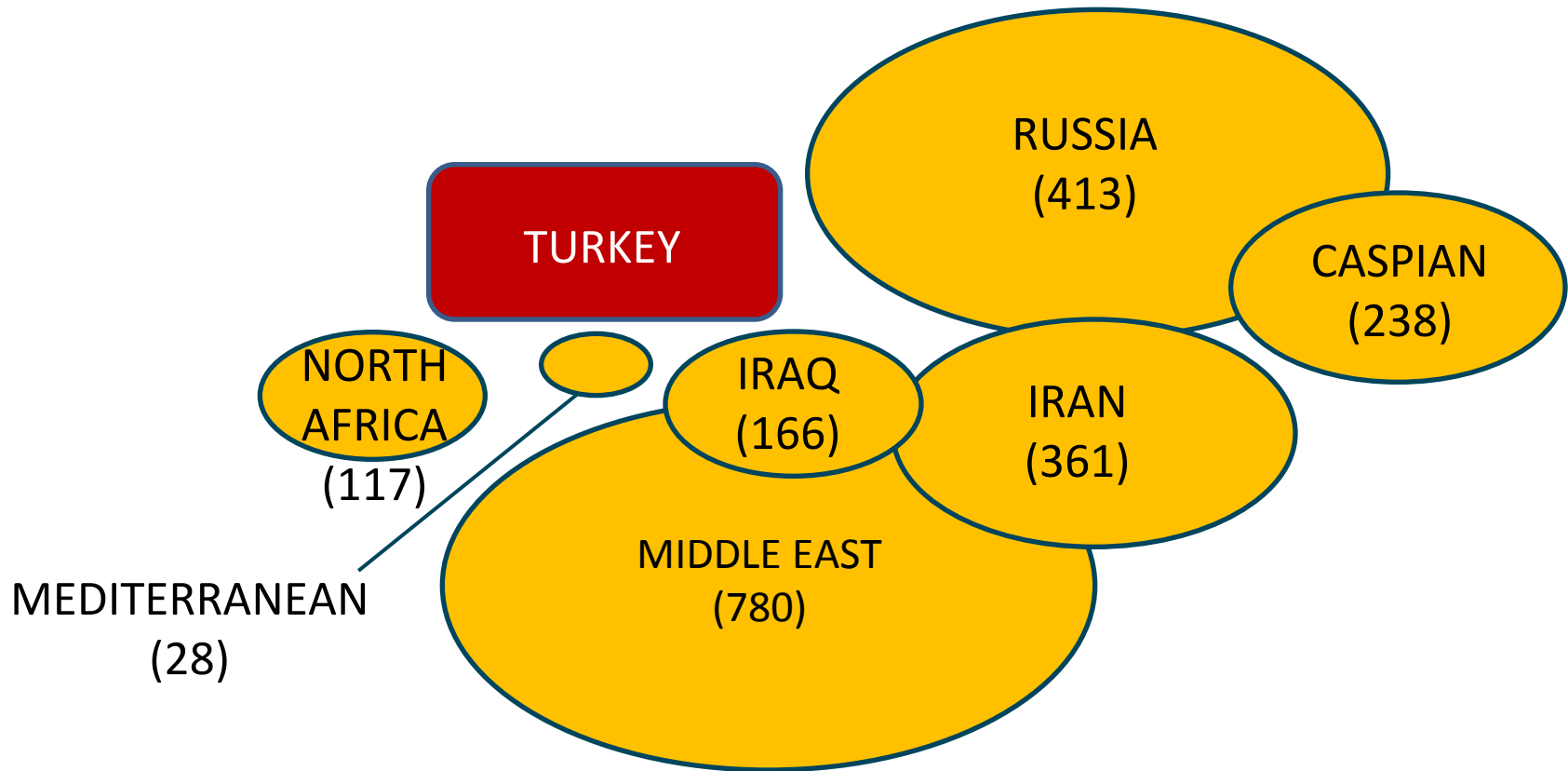
Average annual low-carbon investment, 2014-2040



Building on commitments from G20 countries gathering in Antalya, Paris must send a strong signal that increases low-carbon investment to four times current levels

In an often volatile region, Turkey plays a pivotal role in energy security

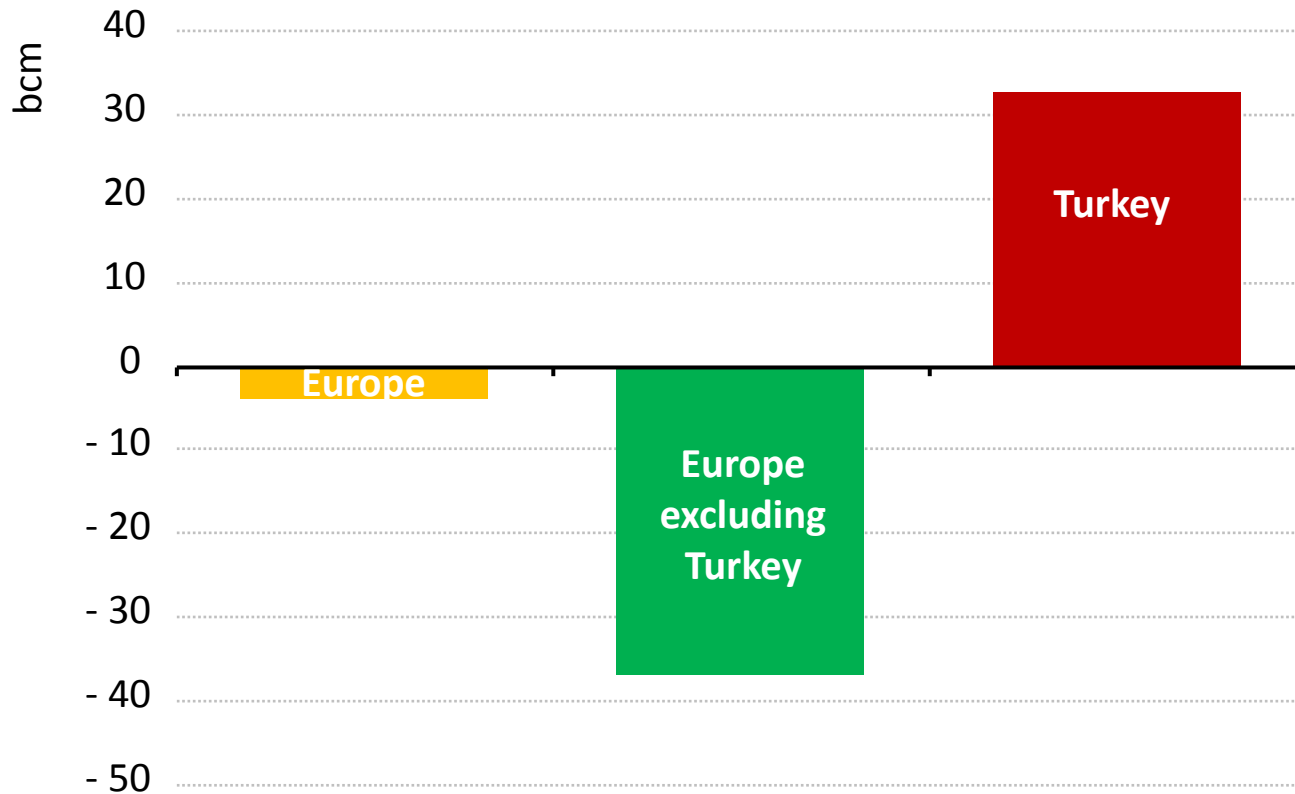
Global oil & gas reserves in proximity of Turkey (billion barrels of oil-equivalent)



Turkey's proximity to almost 70% of the world's oil & gas reserves enhances its attraction as a place to do business & as a gateway to other major consumers

Strong demand has made Turkey a bright spot in Europe's gas market

Growth in natural gas demand, 2000-2014



Natural gas demand in Turkey has more than tripled since 2000, reaching almost 50 bcm in 2014; a level higher than that of France

The need for G20 action on energy

- **Secure & stable energy markets are critical for sustained economic growth in the G20 and beyond**
- **Energy access in sub-Saharan Africa is a prerequisite for inclusive & robust growth**
- **Without clear direction from G20 economies, the world is set for warming well beyond the 2°C goal**
- **Considering the global economic & geopolitical landscape, the Turkish G20 Presidency comes at an ideal moment**
- **The IEA stands ready to continue to support Turkey**