

Shell energy scenarios to 2050

An era of revolutionary change

energy

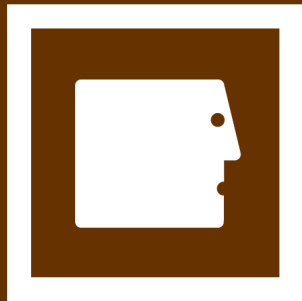
Shell Nederland B.V.
Ewald Breunese

10th March 2008



Scenarios explore alternative futures

The present



The path

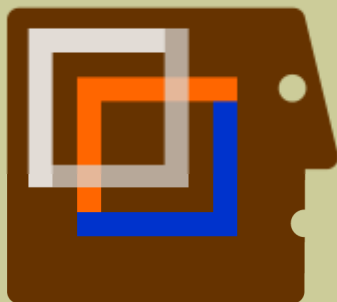


The future

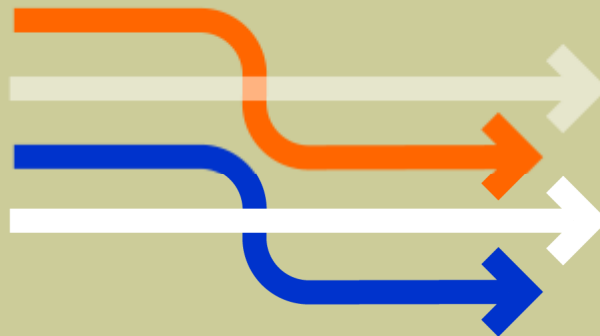


Forecast

Current realities (mental maps)



Multiple paths



Alternative futures

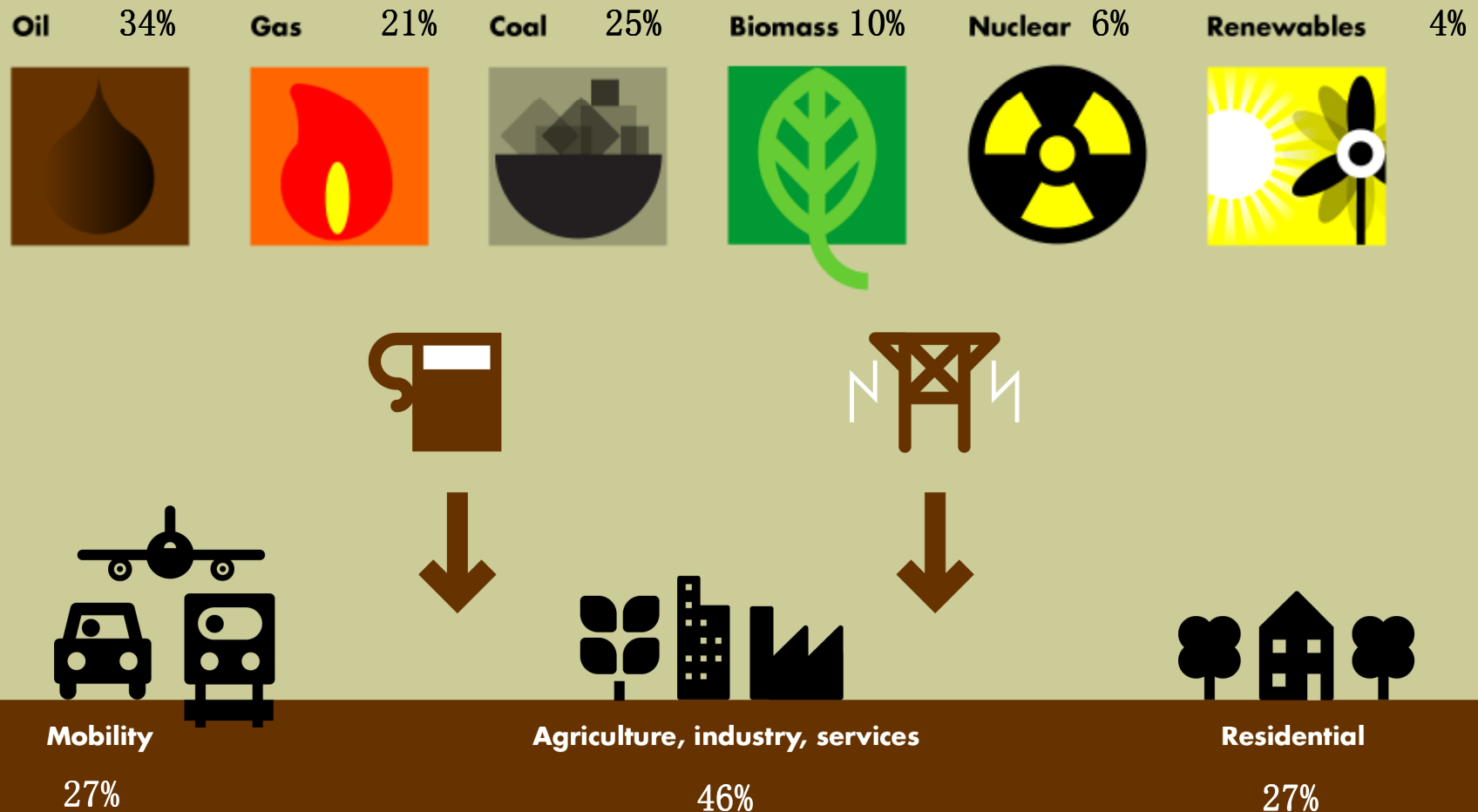


Scenarios

Disclaimer statement

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The energy system today sets the context for the future



Three Hard Truths

SECURITY

CARBON

- Step-change in energy use

RESOURCES

- Supply will struggle to keep pace

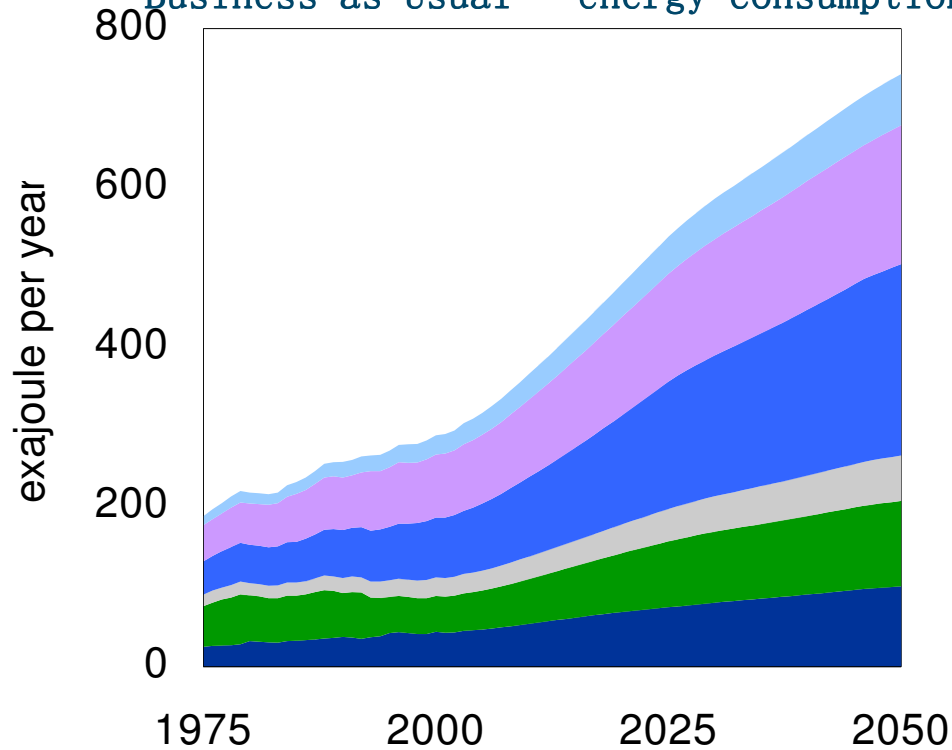
TECHNOLOGY

ENERGY

- Environmental stresses are increasing

“Business as Usual” : energy demand is set to increase dramatically

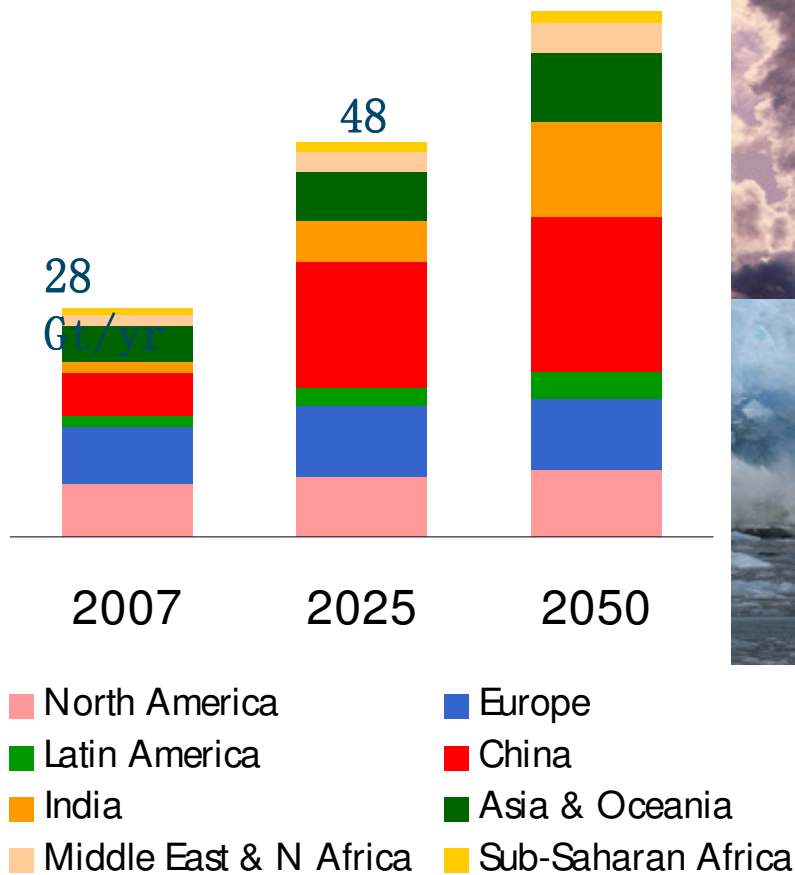
“Business as Usual” energy consumption by sector



- Heavy industry
- Agriculture & other industry
- Services
- Transport
- Residential
- Non energy use

Environmental stresses are increasing

If “Business as usual”,
Direct CO₂ from energy
could rise dramatically



There are choices to be made and actions to be taken to tackle the challenges

Emission reduction



A further shift
to natural gas power



Nuclear power



Renewables

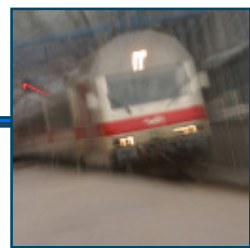


Bioproducts



Carbon capture
and storage

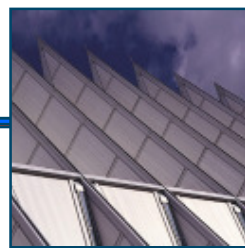
Energy conservation and efficiency



Mass
transportation



Road
transport



Buildings

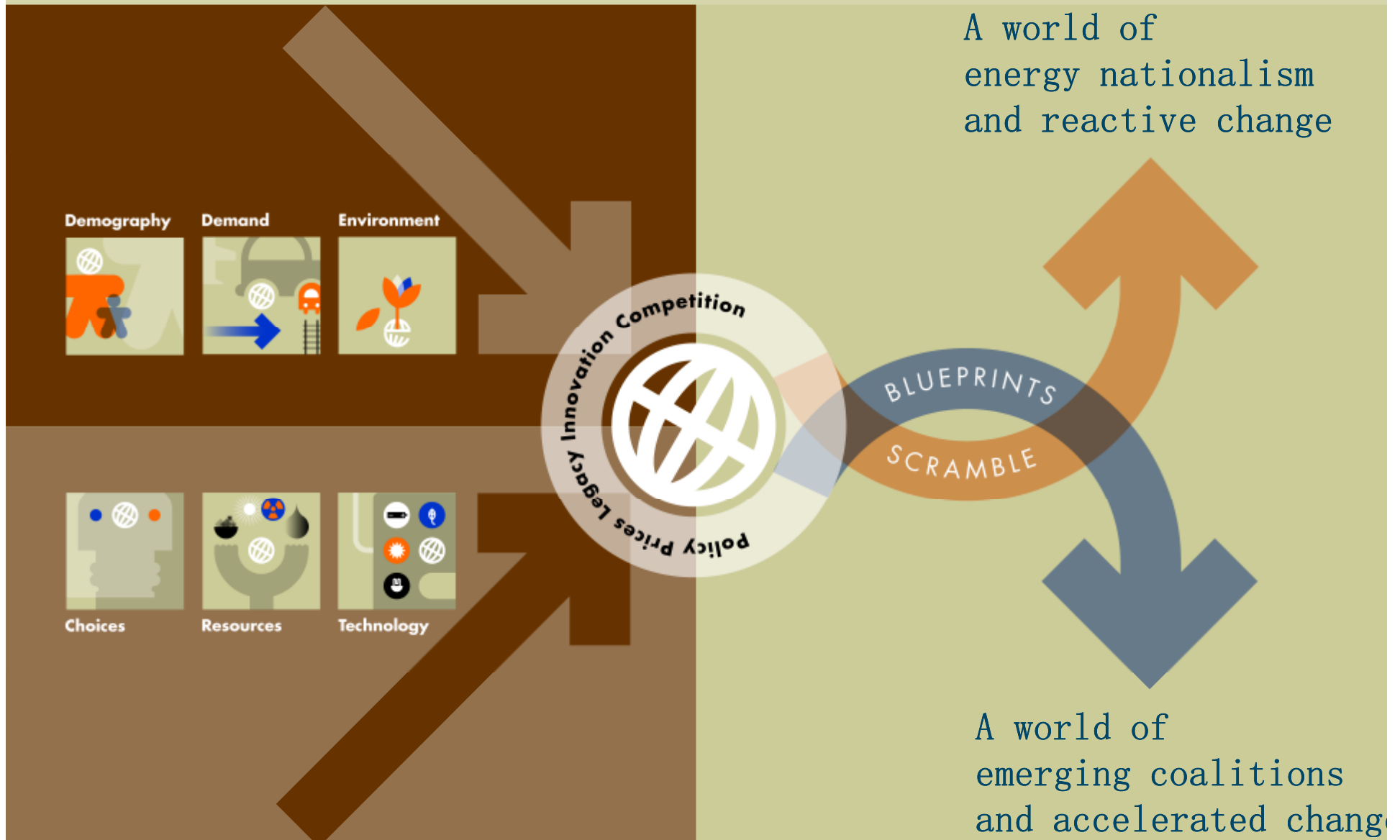


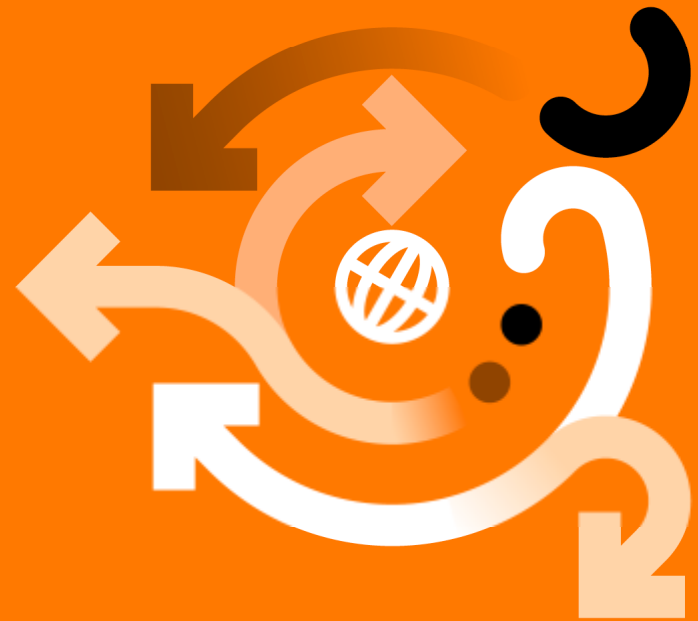
Low energy
appliances



Doing things
differently

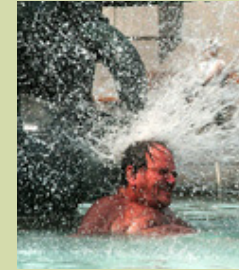
Shell energy scenarios help us to imagine alternative futures



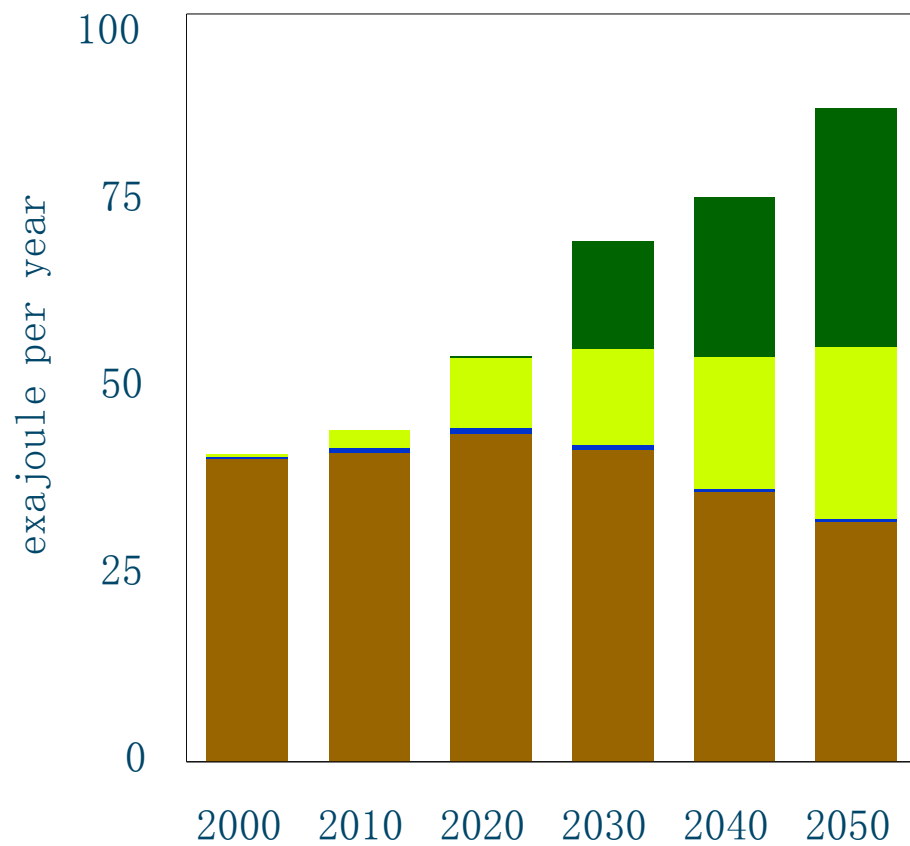


SCRAMBLE

Scramble - Security of supply and fear of losing economic growth



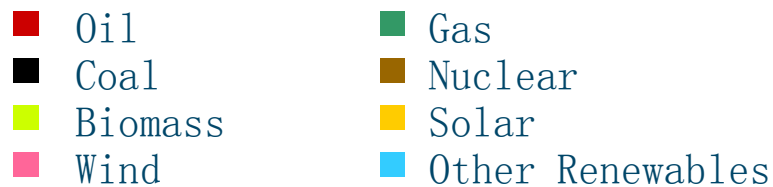
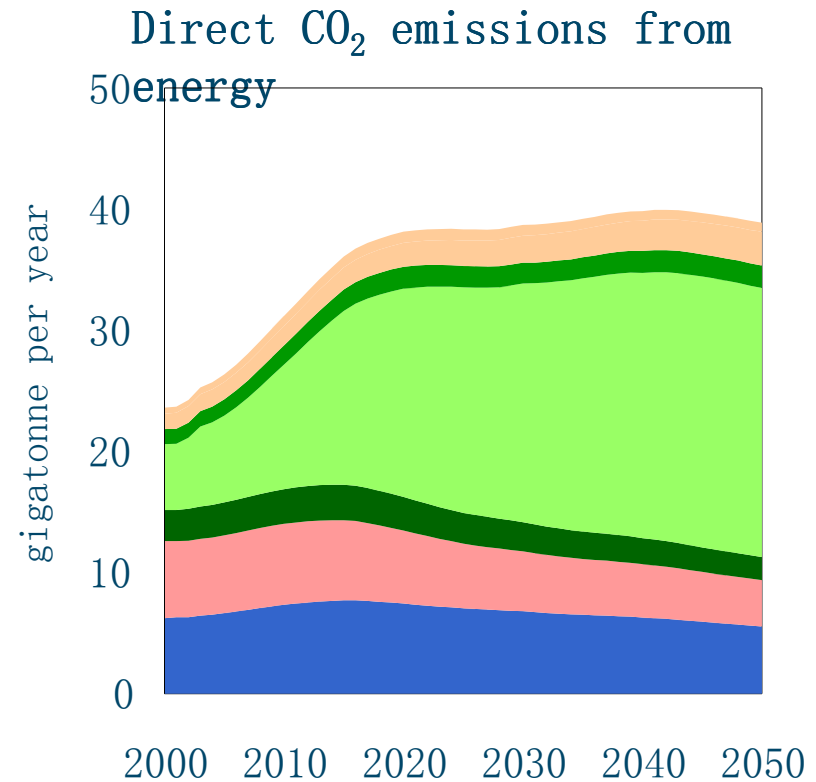
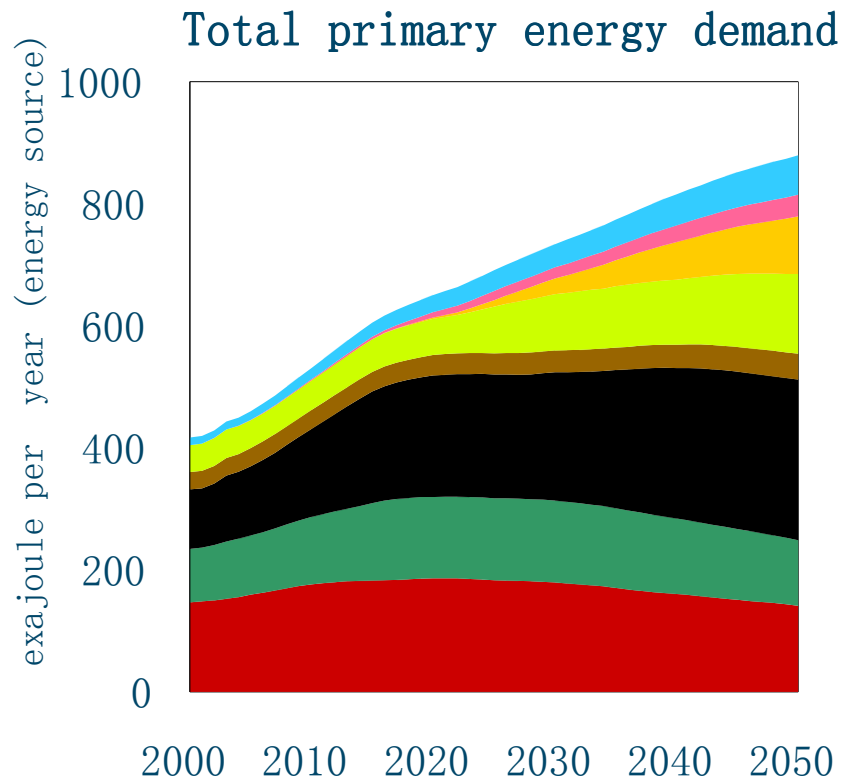
Scramble - Biomass diversifies liquid fuel mix



■ Traditional ■ Biofuels - 1st generation
■ Electricity ■ Biofuels - 2nd generation



Scramble - supply side focus but hits constraints





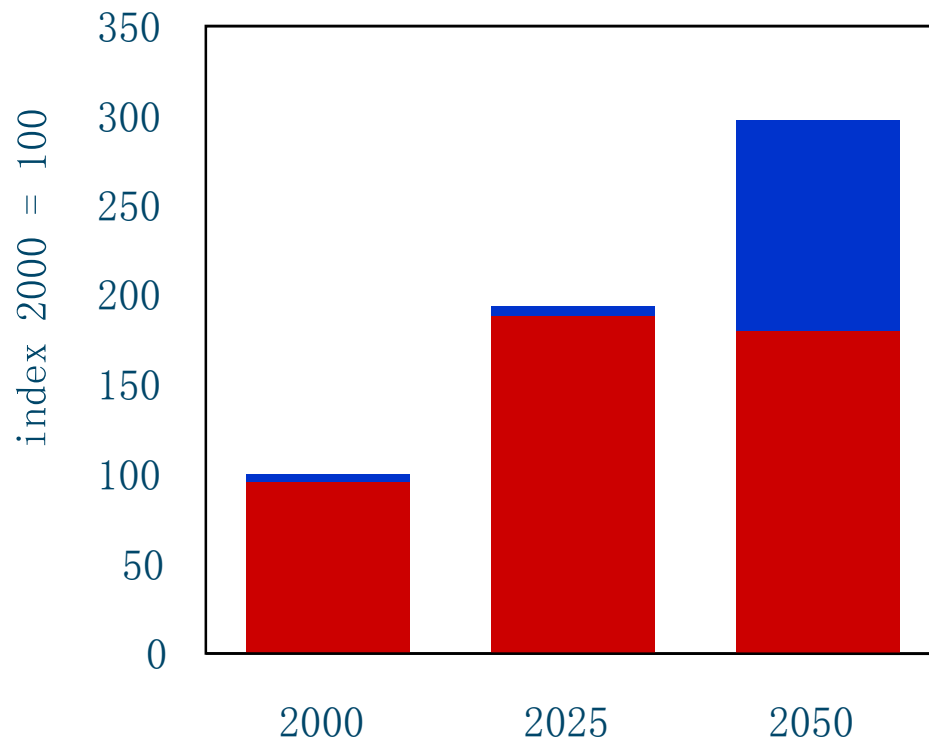
BLUEPRINTS

Blueprints – Energy security and sustainability



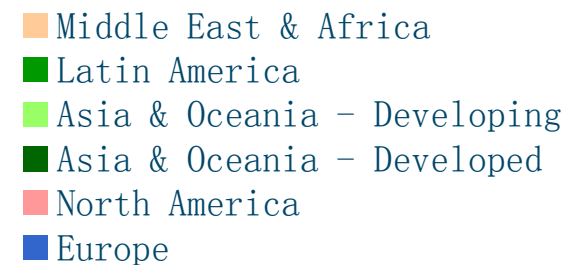
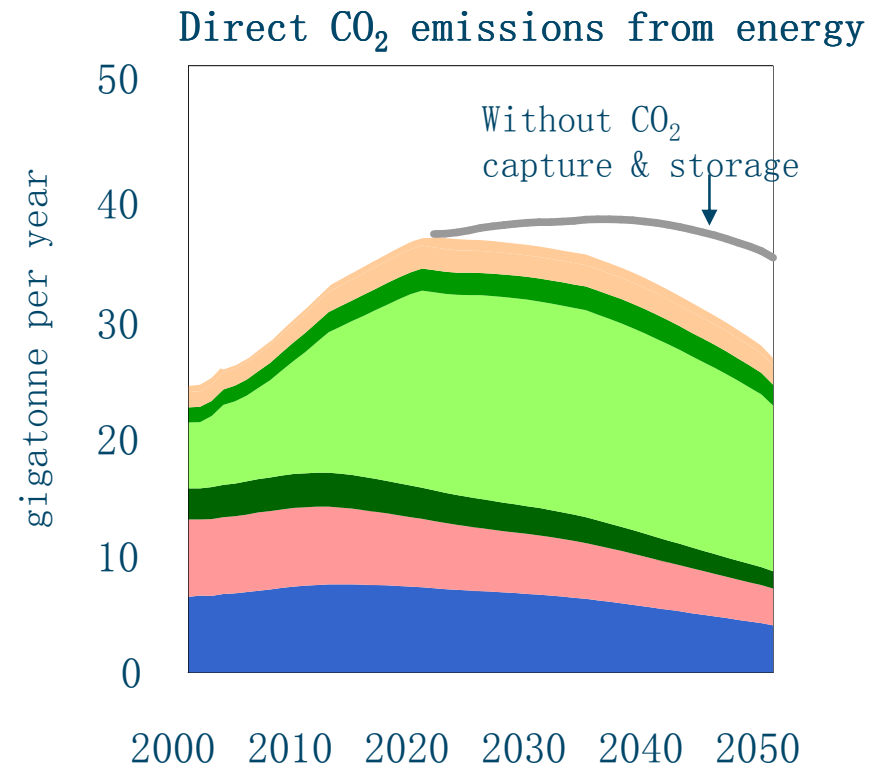
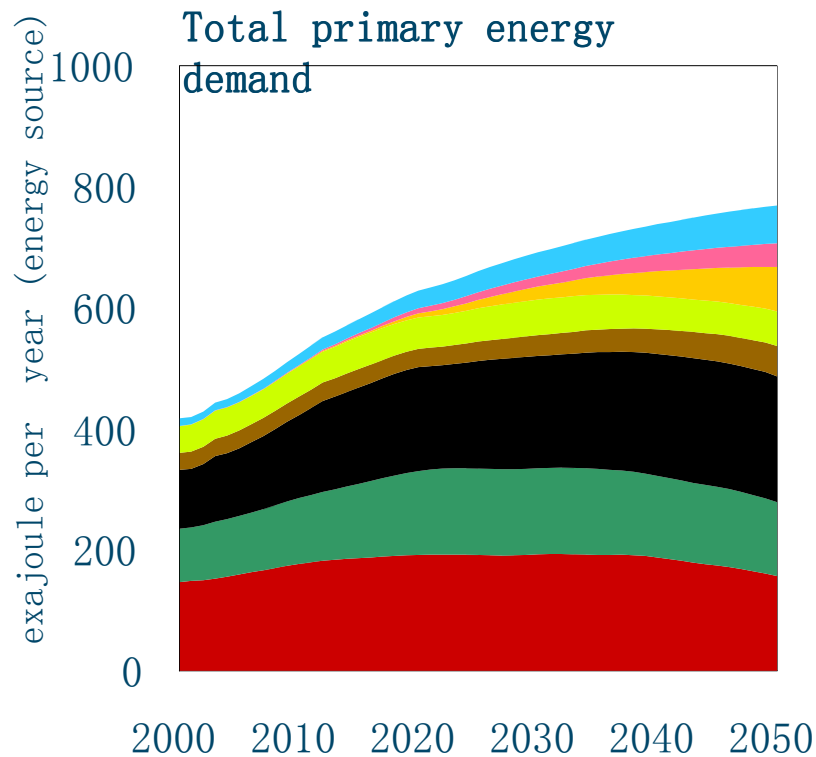
Blueprints - Efficiency and innovation in transport

Passenger distance travelled (world)

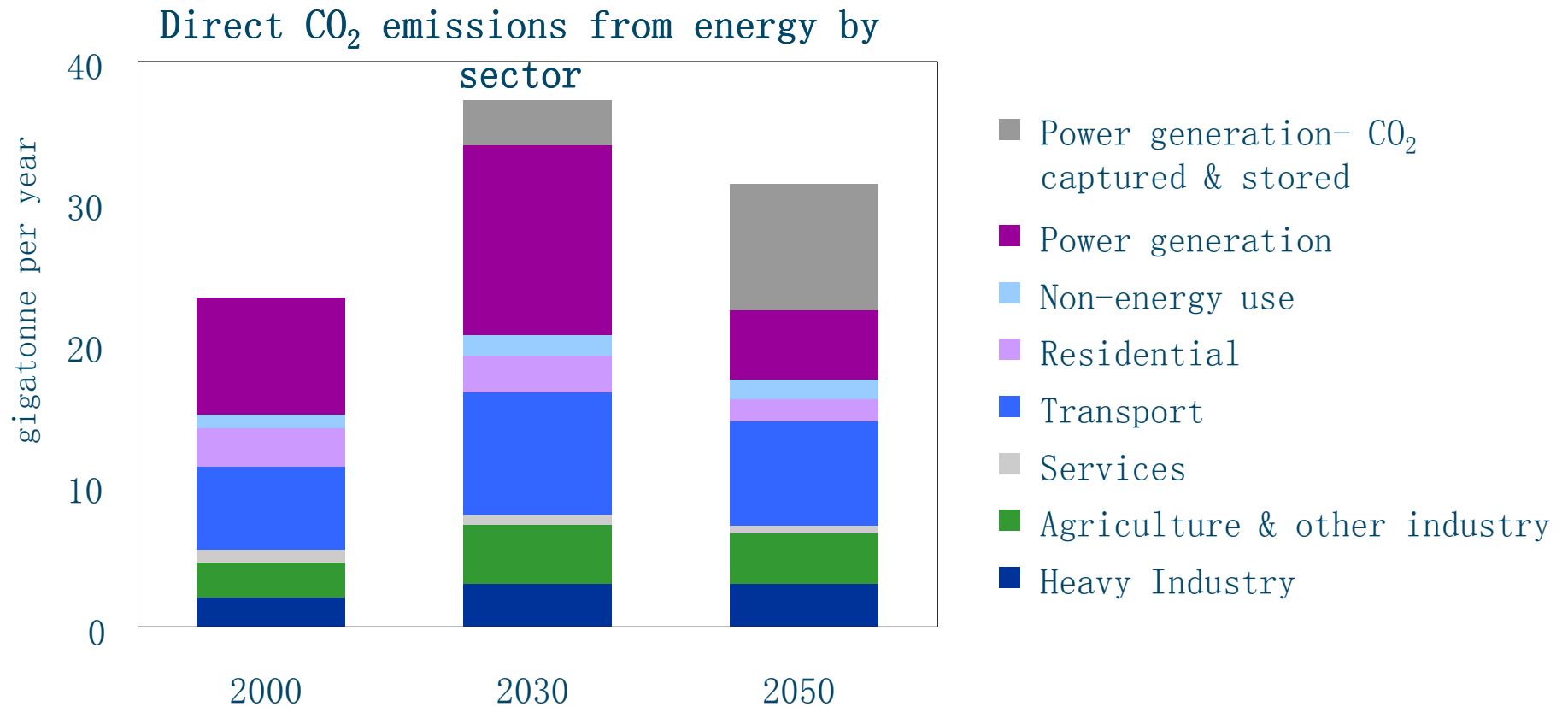


■ Liquid fuels ■ Electric transport

Blueprints – GHG pricing stimulates efficiency and technology development



Blueprints – CO₂ capture and storage abates ~30% of total emissions by 2050



Source: Shell International BV and Energy Balances of OECD and Non-OECD Countries©OECD/IEA 2006

Sustainability will require a revolution in energy use

