

OECD Green Growth Strategy Grantham Research Institute London





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- Multi-disciplinary inter-governmental process, involving 25 OECD
 Committees: delegates from Ministries of Finance, Economy, Environment,
 Agriculture Development Co-operation, Industry, etc.
- Our work starts with the premise is that there is *no necessary conflict* between pursuing economic growth and doing so in a green way.
 - We need growth and it needs to be green.
- Key deliverables at the 2011 Ministerial meeting:
 - Synthesis Report: Towards Green Growth
 - Toolkit: Tools for delivering on green growth
 - Indicators Report: Towards Green Growth: Measuring Progress OECD Indicators



What is green growth?



Green growth means fostering economic growth and development while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies. Catalyses investment and innovation underpinning sustained growth and gives rise to new sources of growth.

Green Growth and Sustainable Development:

- —Green growth as a flexible means to accelerate progress towards sustainable development: an operational policy framework to help achieve concrete, measurable results across the economic/environmental pillars
- —Green growth focus on fostering innovation, investment and competition that can give rise to new sources of economic growth
- Green growth strategies pay attention to social issues and equity concerns as a result of greening growth



Green growth can address economic and environmental challenges and open up new sources of growth

Expanding economic opportunities for a growing global population

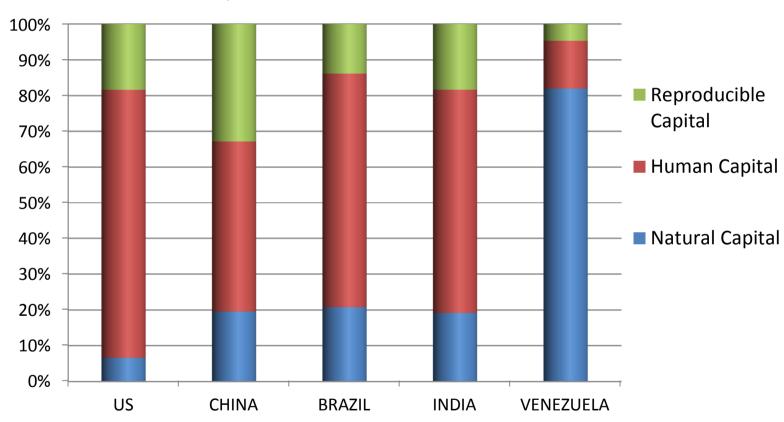
- $\sqrt{}$ Enhanced productivity
- **√** Innovation
- **√** New markets
- $\sqrt{}$ Boosting confidence
- **√** Macroeconomic stability





Better measurement: the capital base of economies





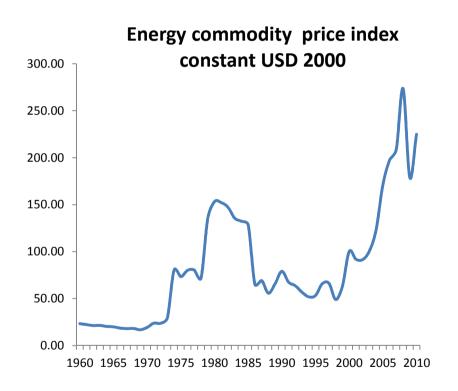
Source: Arrow et al (2009) in NBER WP 16599



Reducing risks of negative shocks to growth

√Resource bottlenecks

√Imbalances in natural systems



Food Price Index



Source: OECD

Source: World Bank

Green growth initiatives around the world



Green growth initiatives



UK: green investment bank. The Bark will be laundred in 2012, with GBP 3 billion of public money to provide funding for tow-carbon polects. that would be too risky or whose returns are too long-term for the marked to invest in.



GEFMANY: green ploneer. The National Strategy for Sustainable Development (2002) defined targets for 21 different sectors. In 2010 nearly 17% of electricity supply was generated from renewable sources, suipassing the target value of 12.5%.



DENMARK: tomorrow's agriculture. Denmark's Agreement on Green Growth (2009) combines ahigh level of environmental, nature and climate protection with modern and competitive agriculture and food industries.



CHINA: renewable energy. China aims to produce 16% of its primary energy from renewable sources by 2020.



KOREA: national green growth plans. Korea's Nastonal Strategy for Green Growth and the Five-Year Plan (2009-2013) provide a comprehensive policy framework for green growth. Under the plan, the government will spend about 2% of annual GDP on green growth programs and projects.



JAPAN: green innovation Japanis National Strategic Projects Related to Green Innovation aim to actieve a JPY 50 trillion environment-related market and to create 1.4 million new environment-related jobs.



UNITED STATES: long-term growth. The American Recovers and Peinvestment Act (2009) aims to create and save jobs, jumpstart the economy, and build the foundation for longterm economic growth.



EUROPEAN UNION: monitoring progress. The EUIs Europe 2020. Strategy for a smart, sustainable and inclusive economy monitors macroeconomic factors, growth-enhancing reforms, and public finances.



ecosystems.

Rwanda's initiative to preserve the mountain godila's habitat has boosted fourism, which now accounts for the biggest share of national GDP.

Note: This map is for Bustrative purposes and is without prejudice to the status of or sovereignty over any tent ory covered by this map.



SOUTH AFRICA: new growth plan. In 2011, the Economic Development Ministry said that the Industrial Development Corporation has committed ZAF 25 billion to new investments in South Africa's "green economy" over the next fee years.



INDONESIA: reducing subsidies. Indonesia plans to reduce overall energy subsidies by 10-15% a year until 2014.



AUSTRALIA: efficient infrastructure. Infrastructure Australia is priorities are expected to bring economic, social and environmental benefits with significantly lower costs than investment in new capacity.



NEW ZEALAND:

advisory group on green growth.
Ministers of Finance, Economic Development, and Environment Jointly established a high-level private sector advisory group to look at how to add value to the export industry, ensure smarler uses of technology and innovation and assist SMEs to become more energy efficient.

Source: OECD

cities. Curitiba has the

highest rate of public

transport use in Brazil

and one of the lowest

rates of urban air

pollution thanks to

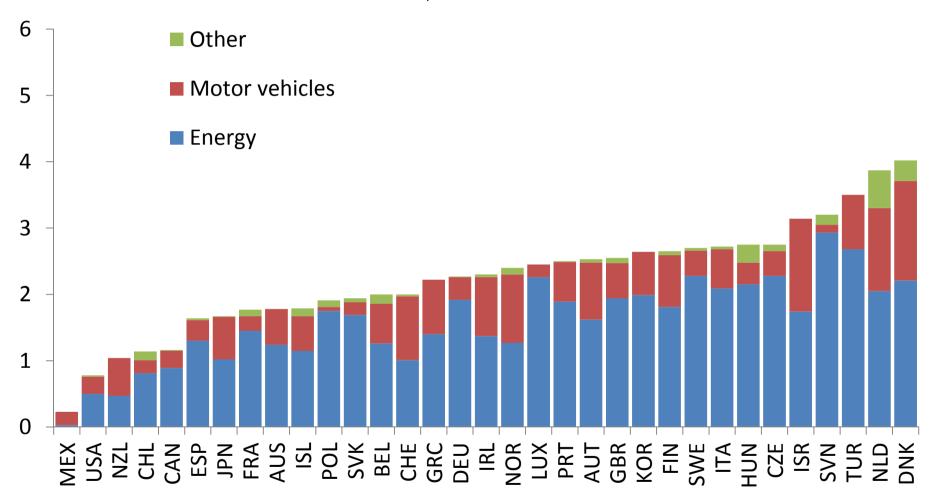
integrated urban

planning.

The modest claims of environmental taxes



Revenue, % of GDP

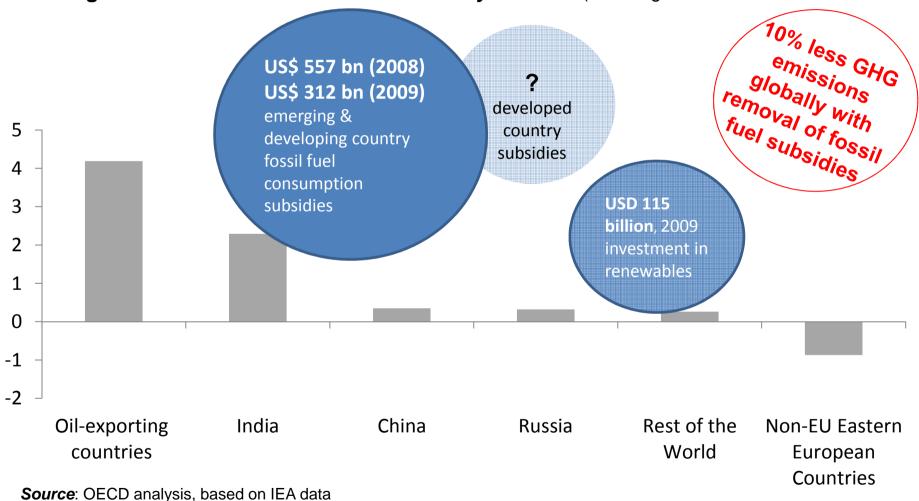


Source: OECD/EEA database on instruments for environmental policy.

Fossil fuel subsidies: subsidising CO₂ emissions

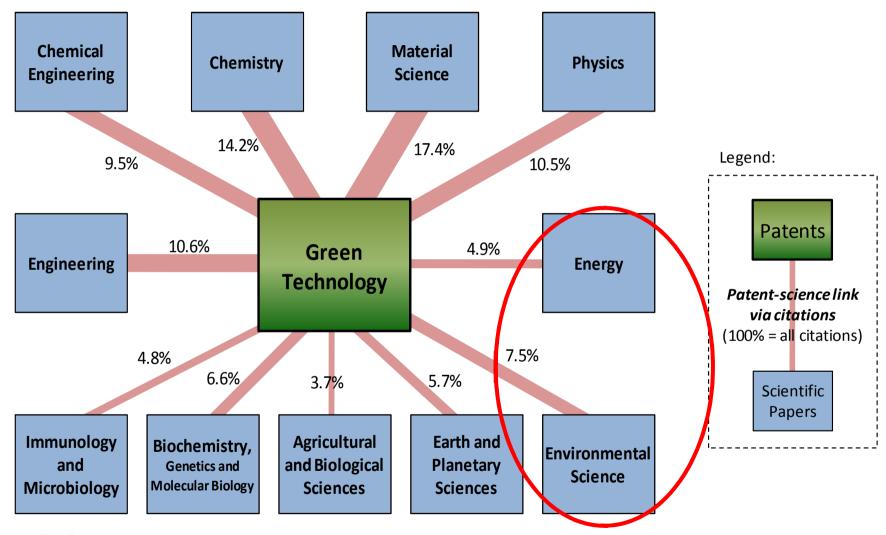


Income gains from unilateral fossil fuel subsidy removal (% change in household income vs BAU)



Innovation in unexpected places



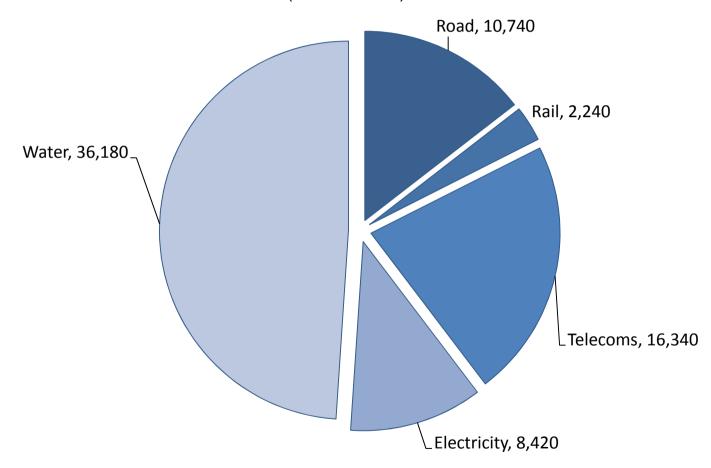


Source: OECD





Global investment 2010-2030 (USD millions)



Source: OECD

What are the implementation challenges?

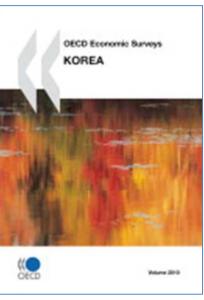


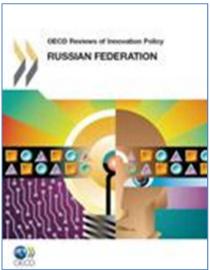
- **Distributional impacts:** e.g. from taxes on energy used for heating and cooking can have significant impacts on low-income households.
 - Distributive impacts are better addressed through broader means, such as lowering personal income taxes, supplementing low-income supports or providing *cash* payments to the most affected low-income citizens.
- Competitiveness concerns: changes in competitiveness in the transition, ought to be addressed through multilateral policy coordination. Compensatory schemes can be justified but they come with their own costs.
- **Employment effects**: the scale of adjustment should not be overstated. *E.g.* significant reductions of GHG emissions can be achieved with only limited effects on the pace of employment growth/ LM performance can improve if revenues from carbon pricing used to promote labour demand
 - Need for inclusive and dynamic package of LM policies



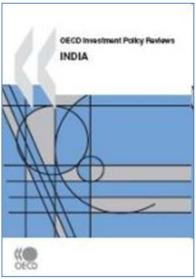


- **&** Economic Surveys
- Environmental Policy Reviews
- Innovation Reviews
- Investment Policy Reviews









Green Growth in multilateral policy surveillance



Incorporating GG objectives into Going for Growth:

- ❖ Medium term goal for two parallel surveillance exercises:
 Greening Growth and Going for Growth
 - ⇒ Need to build a sound basis for empirical analysis and benchmarking

Transition period:

- ⇒ GfG to systematically assess the side effects of growth-enhancing policy priorities on the environment (and income distribution).
- ⇒ Data gathering and indicators on environmental policies and outcomes
- ⇒ New research on the links between environmental policies and outcomes and on the effects of environmental policy tools on growth





Green Growth Indicators



1	The environmental and resource productivity of the economy	Carbon and energy productivity Resource productivity: materials, nutrients, water Multi-factor productivity
2	The natural asset base	Renewable stocks: water, forest, fish resources Non-renewable stocks: mineral resources Biodiversity and ecosystems
3	The environmental dimension of quality of life	Environmental health and risks Environmental services and a 06 07 08 09 10
4	Economic opportunities and policy responses	Technology and innovation Environmental goods and se International financial flows Prices and transfers Skills and training Regulations and management
	Socio-economic context and characteristics of growth	Economic growth and struct Productivity and trade Labour markets, education a Socio-demographic patterns





Mission:

- ✓ enhance and expand efforts to identify and address major knowledge gaps in green growth theory and practice
- ✓ help countries design and implement green growth policy







