



Australian Government

Department of Innovation, Industry, Science and Research

OECD Council Working Party on Shipbuilding –

**Australian Government presentation to workshop on the
*Shipbuilding sector's response to the Green Growth
challenge***



1. Introduction

This presentation will cover:

- Australian shipbuilding
- Approach to green growth issues
- Environmental issues in Australian shipbuilding
- Technological developments
- Regulatory issues impacting on shipbuilding
- Future WP6 work program
- Conclusions





2. Australian shipbuilding

- World leader in lightweight high-speed multi-hull aluminium craft
- Australian –made *mv Accolade II* still operates, a 1981 CNG-powered bulk carrier
- R&D and the evolution of modern energy-efficient multi-hull vessels





3. Approach to green growth issues

- Framework for informed policy choices should maximise the combined economic, social and environmental wellbeing of current and future generations
- WTO consistency of green growth strategy
- General economic reforms – targeted policies
- Alignment between green growth strategy and innovation strategy
- Measurement and indicators



4. Environmental issues in Australian shipbuilding

- Support for research projects and studies that inform environmental policy decisions and industry responses to changes in policy
- EMS approach used to identify and manage environmental impacts, including emissions and discharge of wastes from shipyards
- Impact on shipbuilding of measures to deal with climate change





5. Technological developments

- Existing fleet of vessels under pressure from increased fuel prices, and regulatory requirements to reduce emissions and manage waste disposal
- Increasing market and regulatory demands for more fuel efficient ships
- Implications for linking ship design, development, manufacturing, use of inputs and raw materials, operation of the vessel, and eventual retirement
- Australia builds smaller ships that use less fuel because of lightweight aluminium and composite materials, innovative design techniques and advanced construction technology



6. International regulatory issues impacting on shipbuilding

- International regulatory decisions impacting on shipping and shipbuilding
- Such decisions may impact unknowingly on the efficient aluminium ship construction industry, and unwittingly eliminate the environmental advantages of lightweight ship construction
- Issue needs to be kept in mind as international regulations are developed by the IMO



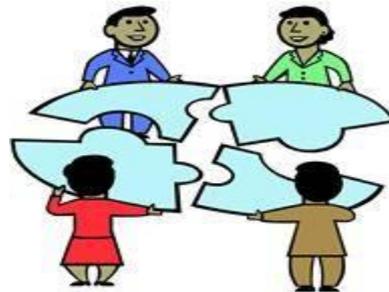
7. Future WP6 work program

- Australia would support further WP6 work program covering:
 - cataloguing Government and shipbuilding industry response to environmental and climate change challenges, and impact of responses on shipbuilding industry;
 - identifying best-practice case studies; and
 - comparisons of carbon dioxide emissions between different modes of transport (ships, road, rail and air), highlighting favourable environmental outcomes achieved by shipping



8. Conclusions

- Collaborative approach
- Incremental innovation
- Measurement and indicators
- International regulatory decisions - IMO
- Australia supports further work on environmental issues within the WP6 work program





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