



WorleyParsons
resources & energy



ESMAP
Energy Sector Management Assistance Program

acclimatise
managing your climate risks

Climate Change Vulnerability and Adaptation Assessment **Workshop 2: Adaptation to meet the demands of the future**

Tashkent - April 20, 2010





An Example Project





▶ Framing Workshop

- Agreed on a core objective
 - “Identify the most environmentally, socially and economically optimal greenhouse gas management policy for the Water Corporation of Western Australia”
- Defined the approaches
 - Analysis of 11 GHG abatement trajectories
- Defined the externalities to be examined
- Defined the major assumptions and analysis parameters





• Business as Usual

Carbon Neutrality Measures

- Linear path to CO_{2-e} neutral by 2020
- Linear path to CO_{2-e} neutral by 2030
- Shallow path to CO_{2-e} neutral by 2030
- Steep path to CO_{2-e} neutral by 2030

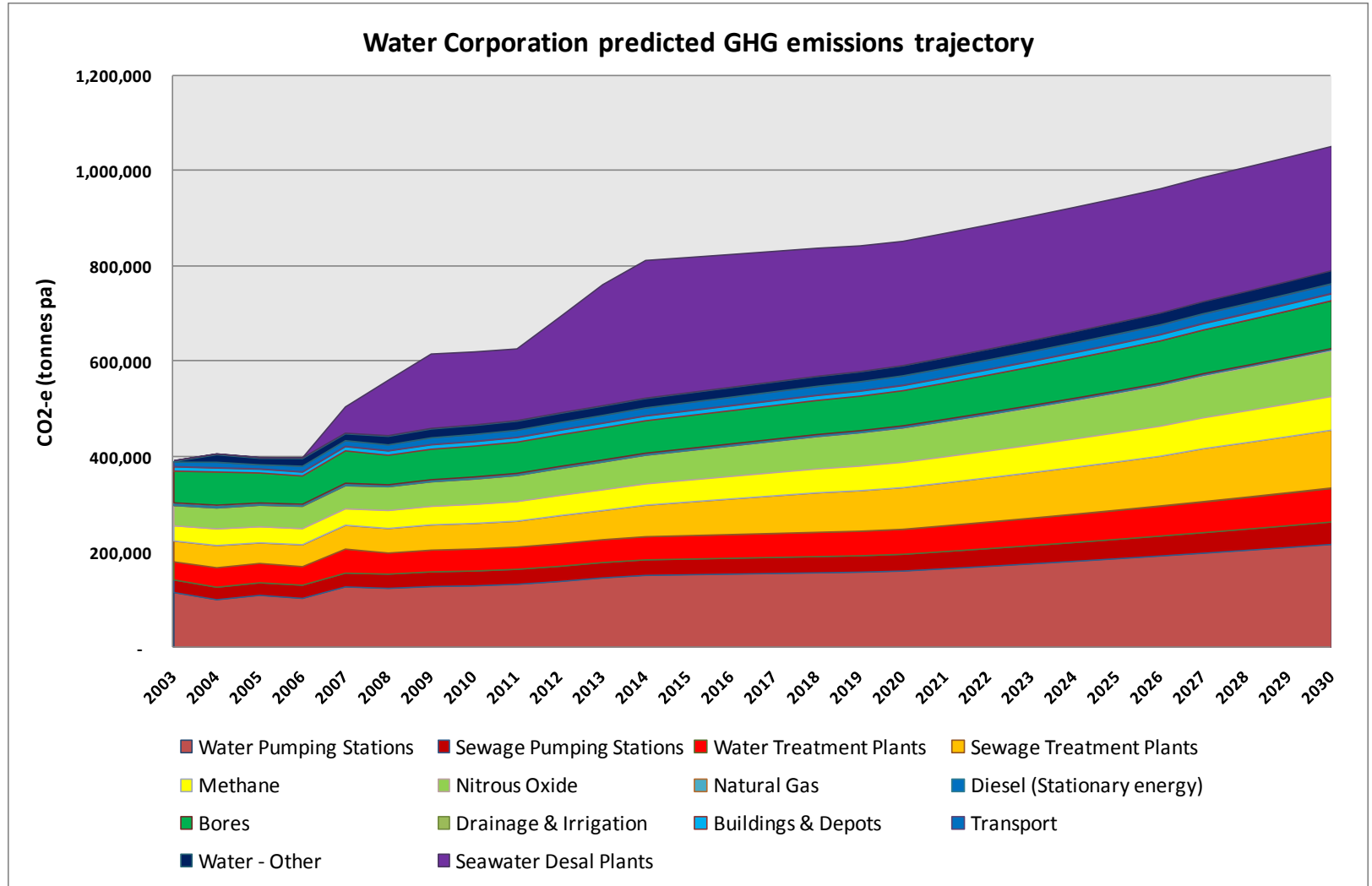
Government Target Measures

- Match 5% reduction target by 2020
- Match 25% reduction target by 2020
- Exceed Govt. target by 10%: 35% reduction target by 2020

CO_{2-e} Intensity Measures

- Maintain current CO_{2-e} intensity
- 10% pa reduction in CO_{2-e} intensity
- 80% reduction in CO_{2-e} intensity by 2030
- Zero net GHG emissions







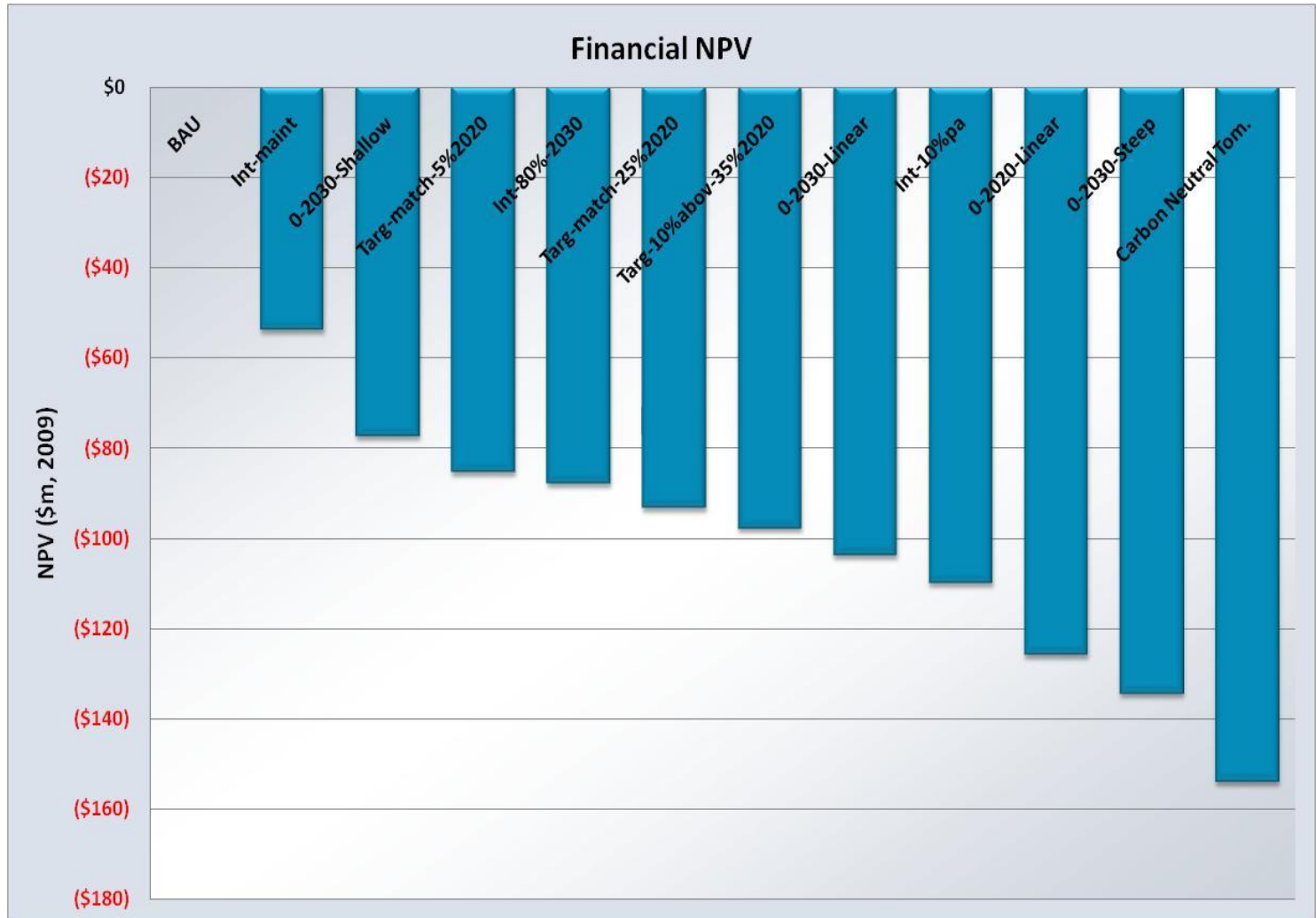
▶ Financial

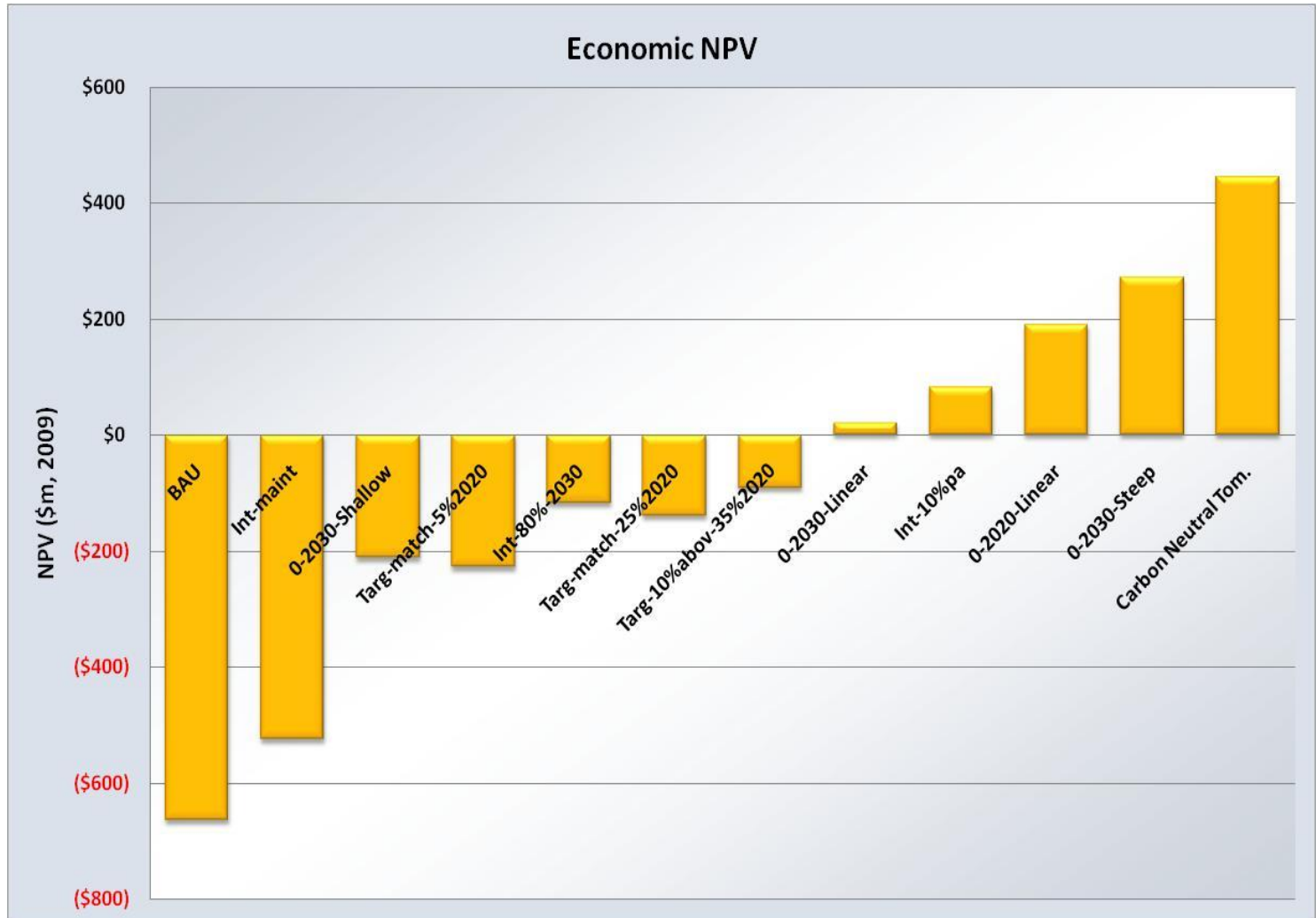
- CAPEX
- OPEX
- Energy costs / cost savings (from energy use)
- Carbon credits

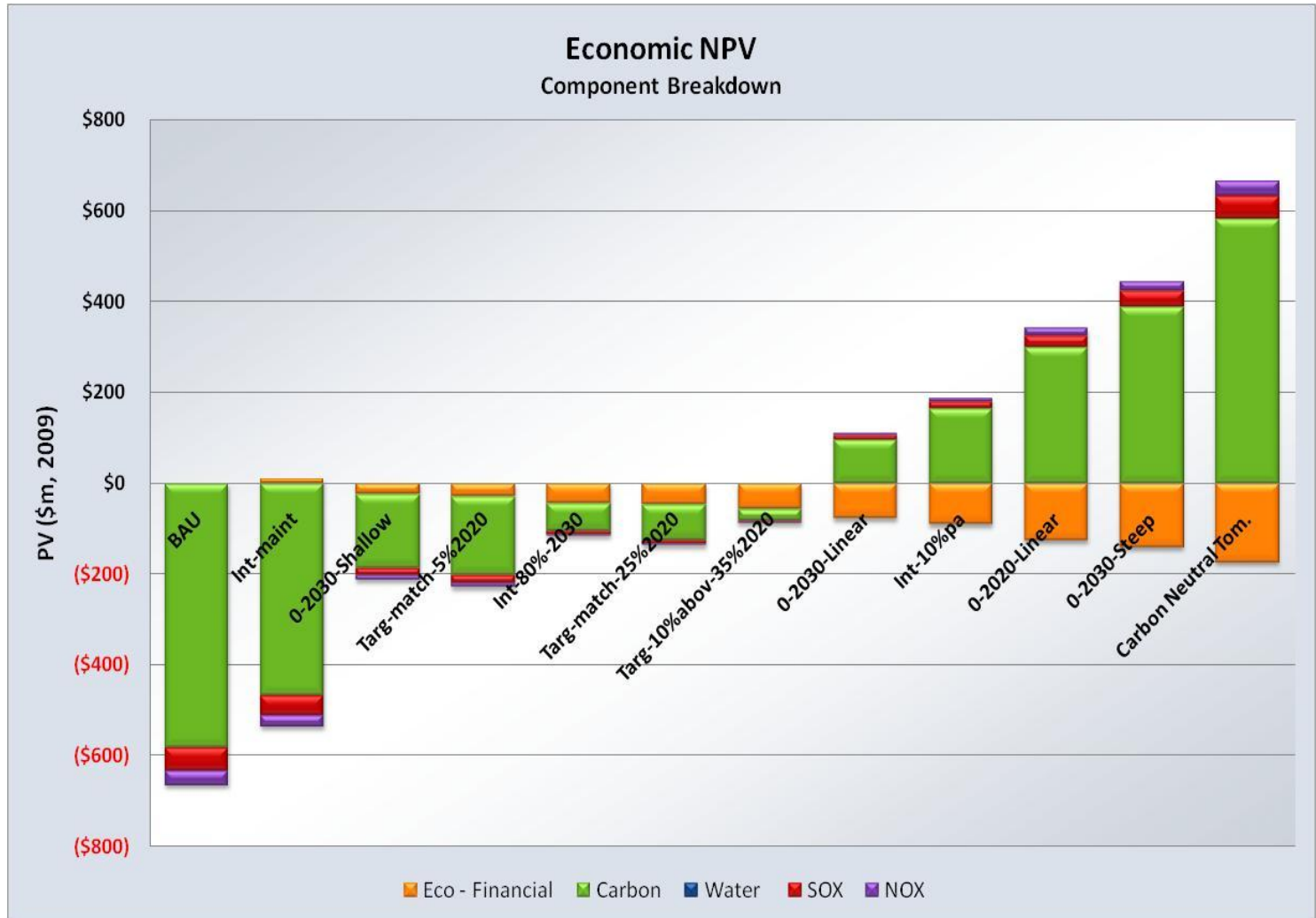
▶ Externalities

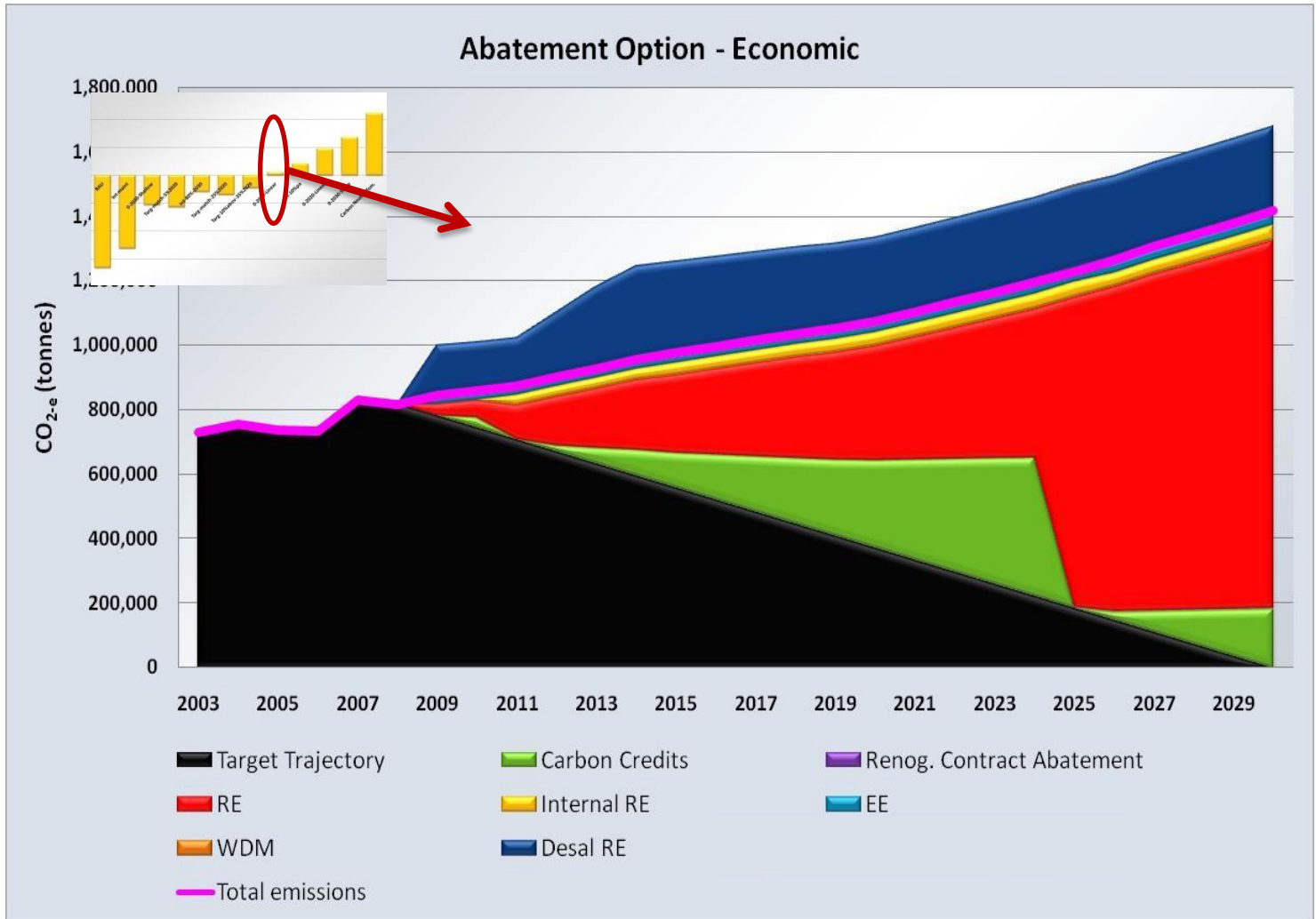
- CO_{2-e}
- SO_x and NO_x
- Total Economic Value of Water













Thank You

