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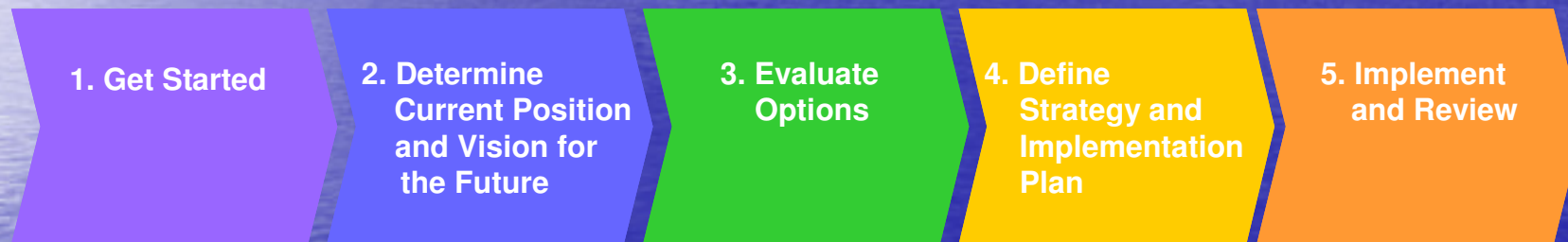
HIGHER EDUCATION CARBON  
MANAGEMENT  
STRATAGY AND IMPLEMENTATION  
PLAN

# How we started

- Vice chancellor signed agreement with Carbon Trust in May 2006
- FM to deliver a CM plan for implementation by May 2007



# Carbon Trust five step process



# Get Started

- UCLAN Carbon Management Team
- Paul Morris Project Sponsor
- Mick Errington Project leader
- Eight other members from across the University ranging from SU representatives to Professors

# Vision for the Future

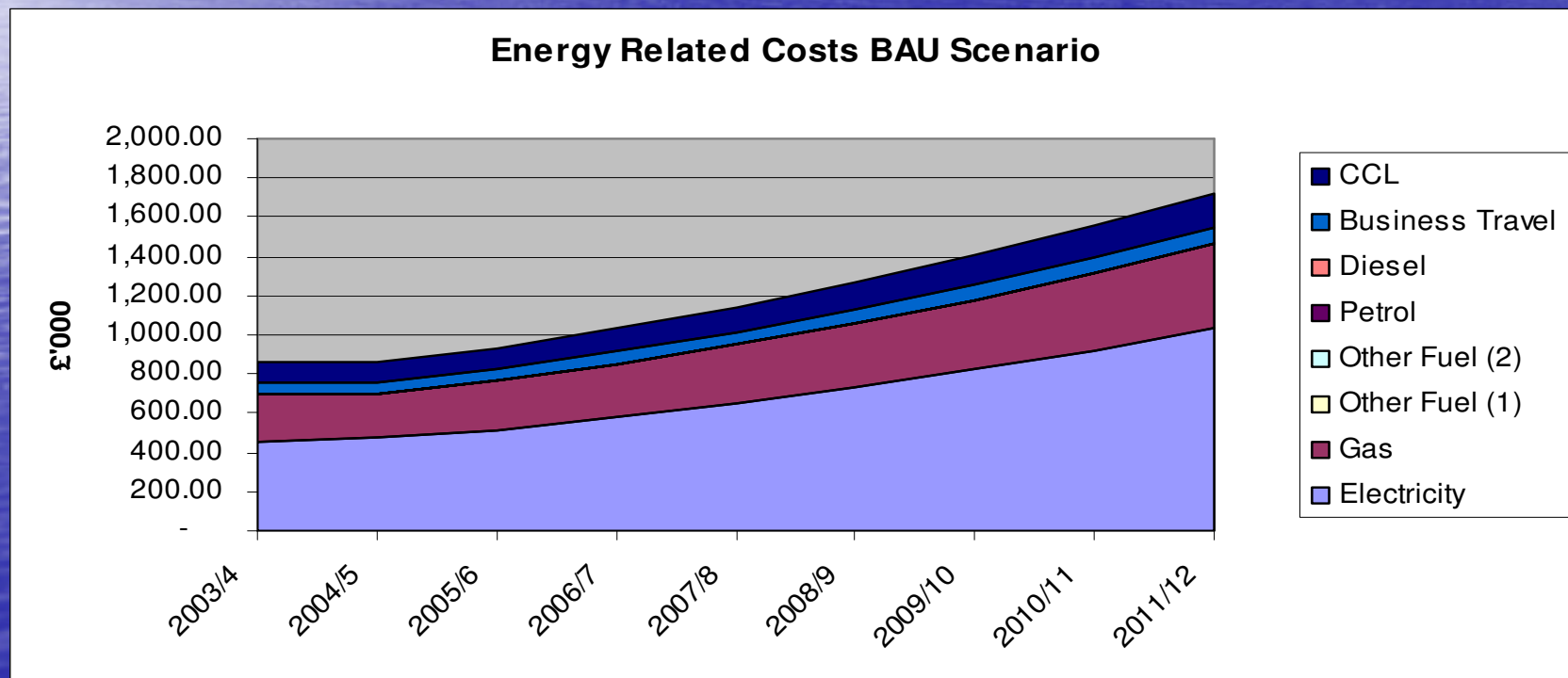
- In terms of a sustainable future:-
- Where are UCLAN now?
- Where do UCLAN want to be in the future?
- Why do UCLAN need to change?
- What are the benefits to UCLAN?
- How do UCLAN implement the plan?

# Emissions baseline

- CM Team compile emissions baseline for year 2005/6
- Emissions baseline based on utilities invoices
- Transport emissions based on campus fleet

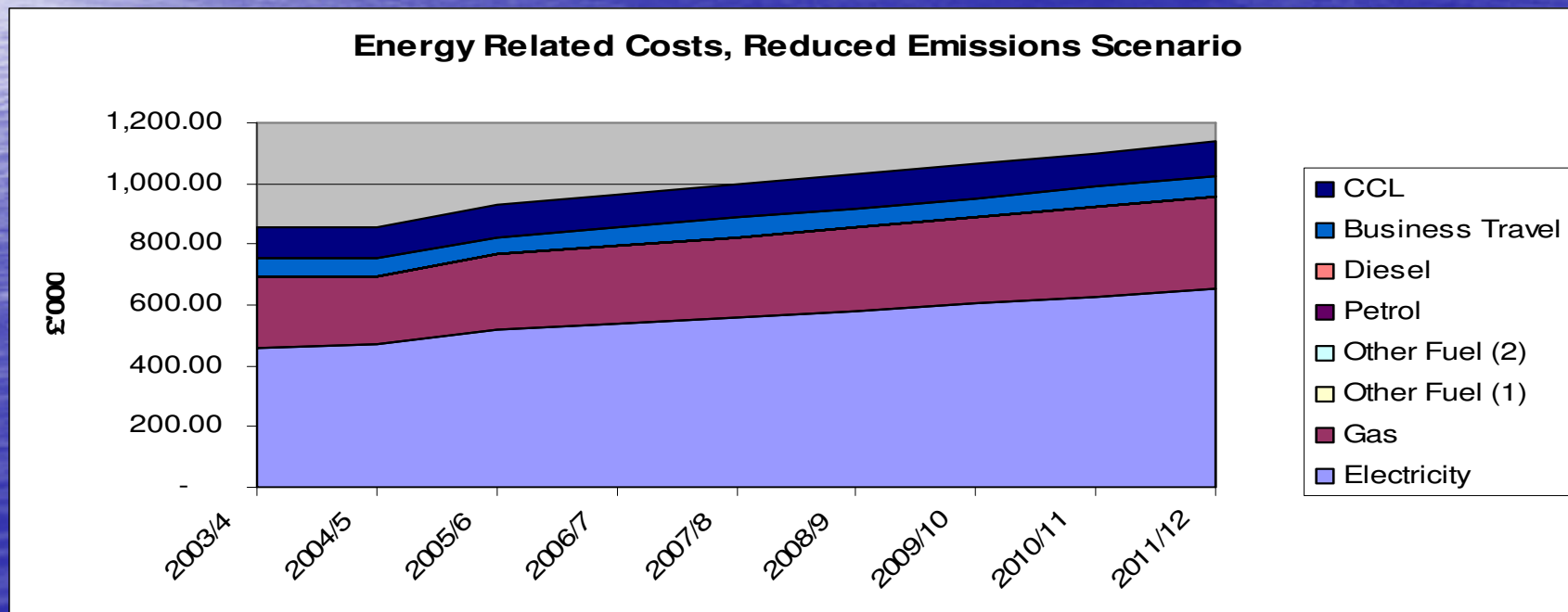
# PROJECTIONS

- CM Team predict 15% co2 savings over a five year period
- CM Team produce a Graph showing BAU



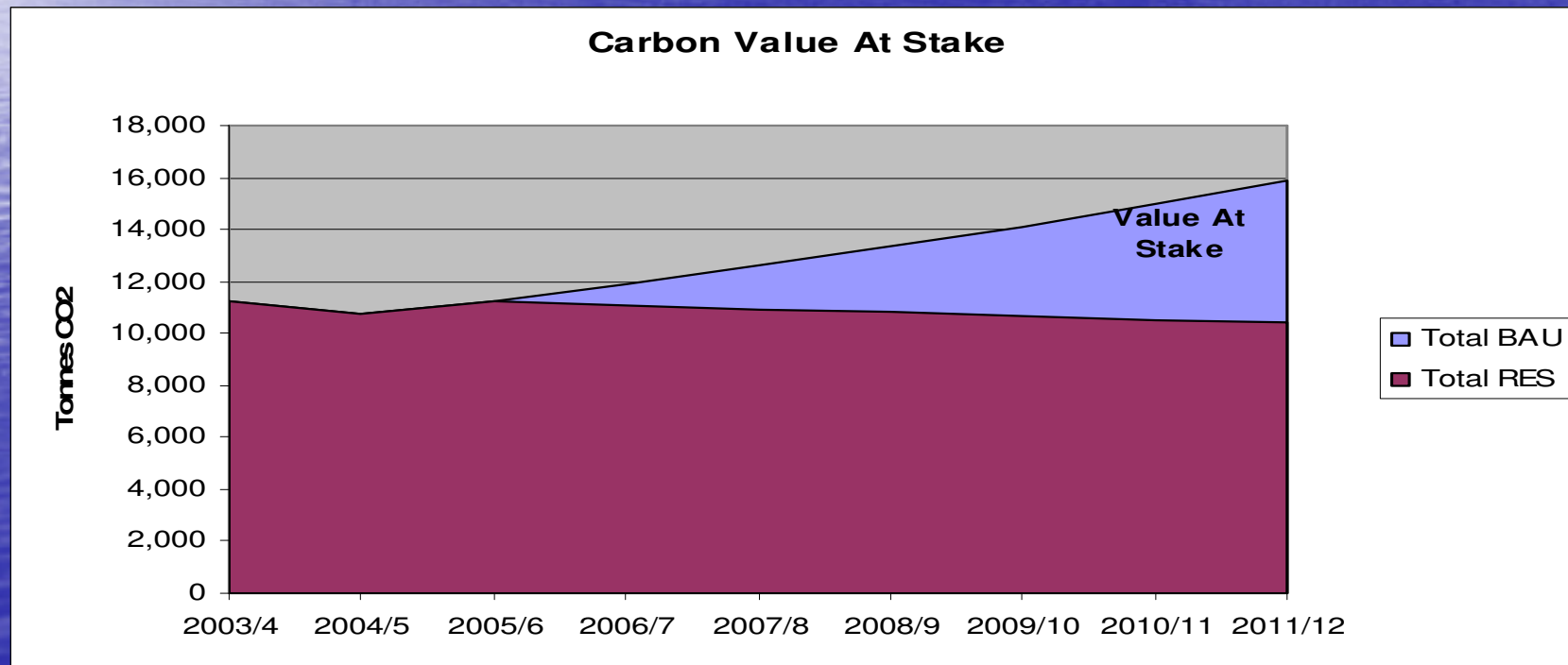
# REDUCED EMISSIONS SENARIO

- CM Team produce graph showing RES



# VALUE AT STAKE

- CM Team produce a graph showing VAS



# COMMUNICATIONS

- CM Team create UCLAN web Page  
<http://www.uclan.ac.uk/other/fm/develop/carbon/index.htm>

# IMPLEMENTATION

- Cm Team produce Implementation plan
- This plan shows the break down of each project, its cost, its saving, and its payback period.
- The plan also lists who is managing the project when its to start and when it will be finished

# Identified opportunities

## Quick wins

- Banning of Electric Heaters, Kettles, desk fans and office fridges
- New Boiler plant
- Car sharing
- Car club
- New CHP Plant for main Boiler House

# Finance and Resources

- The creation of the CM Team to list Opportunities and develop further the carbon plan
- Existing FM Development dept to carry on with small works and new development/refurbishments to include new direction from CM Team

# Finance and resources

- Existing Energy budget to cover cost's of CM Team meetings, energy awareness campaigns etc.
- Existing MIP Budgets to finance maintenance / new / refurbishment works
- New condition survey of buildings to give additional information for finance and opportunities

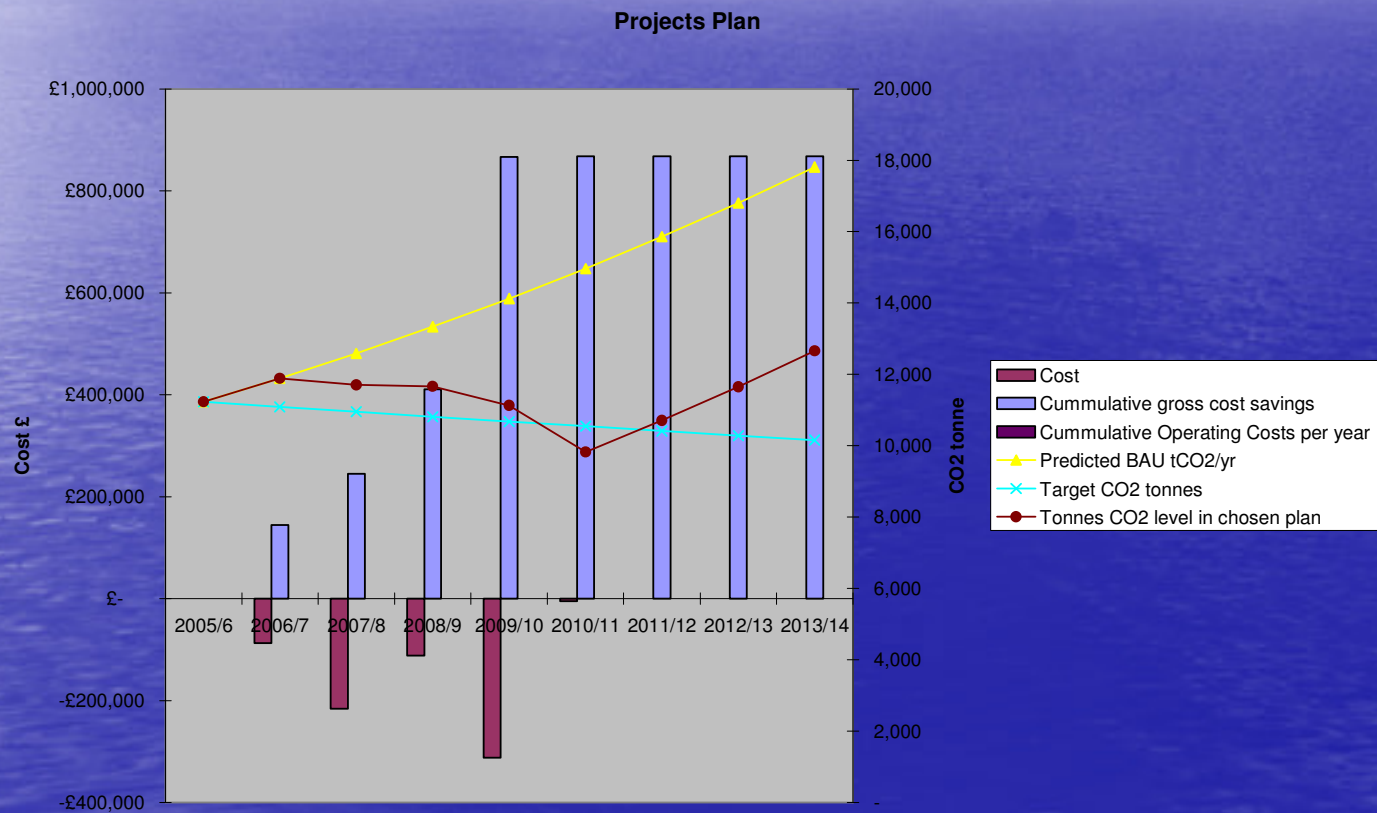
# UCLAN FORCAST

## Targets

Reducing CO<sub>2</sub> emissions by 5445 (t CO<sub>2</sub>)

		Predicted BAU tCO <sub>2</sub> /yr	Target CO <sub>2</sub> tonnes
Base Year	2005/6	11,230	11,230
now	2006/7	11,888	11,089
Year 1	2007/8	12,589	10,950
Year 2	2008/9	13,333	10,813
Year 3	2009/10	14,123	10,678
Year 4	2010/11	14,964	10,544
Year 5	2011/12	15,858	10,413

# Conclusion



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- 5445 Tonnes of carbon saved in five years
- £607,000.00 Predicted savings over five years
- Ongoing savings and opportunities
- This is just the start



- Thank you for your time
- Mick Errington