

# UTM-Low Carbon Asia Research Centre: Science to Action-based Projects and Contributions to Malaysia Low Carbon Society (LCS)

Gabriel Hoh Teck Ling<sup>1</sup>, Loon Wai Chau<sup>1</sup>, Chin Siong Ho<sup>1</sup>

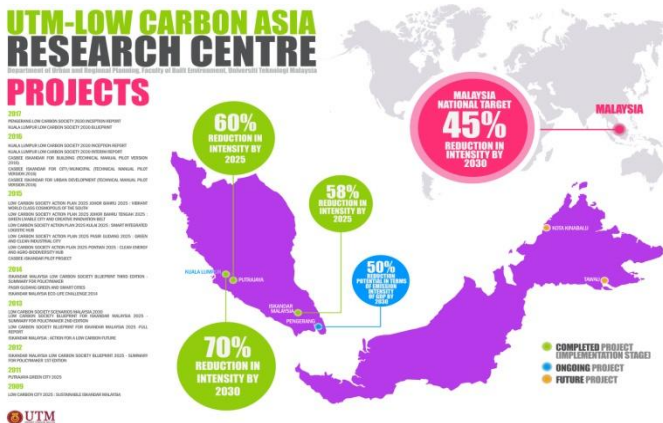
<sup>1</sup>UTM-Low Carbon Asia Research Centre, Department of Urban & Regional Planning, Faculty of Built Environment, Universiti Teknologi Malaysia, UTM Faculty of Built Environment, UTM Skudai, 81310, Johor Bahru, Malaysia  
gabriel.ling@utm.my; lwchau@utm.my; ho@utm.my

## 1.0 INTRODUCTION

Climate change has attracted collective actions from international and national stakeholders in policy formulation and target setting. At the sub-national level, research-policy-making collaborations that lay out tangible regional and city-scale projects in terms of emissions modelling, mitigation action plans, and strategies/programmes towards curbing climate change and GHG emissions are rapidly emerging. This paper highlights UTM-LCARC's regional and city-scale climate mitigation projects and contributions that encompass numerous local city low-carbon projects, publications, participation and involvements, and local and international partnerships spanning 2009 to 2017. Secondary sources analysis was used; organisational archives and document search via the Google search engine and on-site data collection were performed.

## 2.0 PROJECTS AND CONTRIBUTIONS

### 2.1 LOCAL LOW CARBON SOCIETY PROJECTS



### 2.2 INTERNATIONAL PARTICIPATION & INVOLVEMENTS

In total there were 7 COPs and 21 capacity buildings involved, and some instances are shown as follows:



Launching of the Iskandar Malaysia and Putrajaya Action Plans at the COP21



Capacity Building in Phnom Penh, Cambodia (2017) – Prof. Dr. Ho Chin Siong as a facilitator



Launching of the Kuala Lumpur Low Carbon Society Blueprint (KLCSBP) 2030 Booklet at the COP22



Launching of the Pengerang Low Carbon Society Blueprint (PLCSBP) 2030 Inception Report at the COP23

## 2.3 PUBLICATIONS & NETWORKING

48	Proceedings/Conferences
7	Non-index Publications
2	Book Chapters
77	Scopus, Impact Factor (Web of Science) Publications
7	Policy Documents

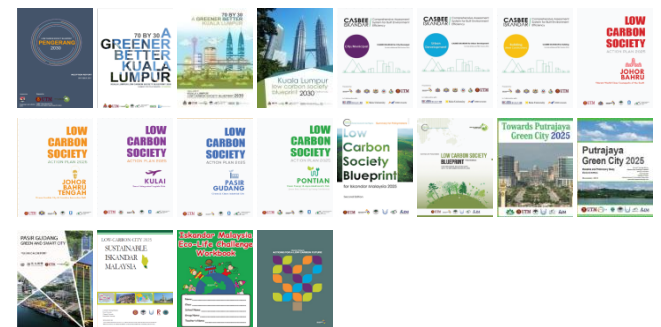
### International Low carbon Network



### National Level



### City & Regional Level



### Annual Reports



## 2.4 PARTNERSHIP AND RESEARCH ALLIANCES



## 3.0 CONCLUSION

Espousing the Science to Action (S2A) approach in decoupling carbon emissions from economic growth in a holistic, cross-sector manner, where co-benefits of climate actions and community engagement are also the main emphases, UTM-LCARC aims to bring innovative science and technology solutions for the promotion of sustainable urban future to Asian regions, specifically in the subject area of climate change. The blueprints are pivotal to assisting Malaysia's pledged target of 45% carbon intensity reduction by 2030 and contributing to various national policies (11<sup>th</sup> Malaysia Plan and TN50 on carbon neutrality) and global initiatives (SDGs, NUA, and Paris Agreement).