

MEBS6016 Energy Performance of Buildings

<http://www.mech.hku.hk/bse/MEBS6016/>

Summary of Teaching (Dr. Sam C. M. Hui)

1. Introduction 1.1 Course Overview 1.2 Energy Basics 1.3 Energy Use in Buildings 1.4 Energy Efficiency 2. Energy Efficiency in Buildings (I) 2.1 Energy Policy and Codes 2.2 Current Situation in HK 2.3 Assessment of Performance 2.4 EU Directive on Energy Performance of Bldgs. 2.5 Implications for HK 3. Energy Efficiency in Buildings (II) 3.1 Basic Principles 3.2 Building Energy Design 3.3 Building Operation and Energy Management 3.4 Energy Performance Contracting	4. Energy Information Systems 4.1 Energy Information System 4.2 Data Analysis Techniques 4.3 Practical Applications 5. Energy Auditing of Buildings 5.1 Basic Concepts 5.2 Types of Energy Audits 5.3 Planning of Energy Audits 5.4 Energy Audit Process 5.5 Energy Audit Report 5.6 Energy Management Opportunities 5.7 Implementation Issues 6. Economic and Financial Analysis 6.1 Investment Appraisal 6.2 Financing Options 6.3 Building Economic Analysis 6.4 Whole Life Costing
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Concept Map:

