

Better Energy Management with Transition Engineering

DAY 1

Introduction - The Importance of System Dynamics

What is “Sustainability”?

Overview of Global Problems of Unsustainability

Systems Thinking and the Operating Environment

The Importance of Energy in Society, Industry and Engineered Systems

Historical Background to Current Global Challenges

Introduction to Transition Engineering Methodology

DAY 2

Identification of Risks of “Un-sustainability” - ISO Management Tools

Understanding an Organisation in its Operating Environment - Past, Present and Future Changes

Energy, Climate, Population - Why the future will not look like the past?

Examples and Use of Future Scenarios

The Unsustainability Challenges Facing my Organisation under “Business as Usual”

Potential Usefulness of Environmental and Energy Management Tools

Collecting Data about the Past, Present and Future of an Organisation

DAY 3

Designing Metrics, Collecting Data, Describing Future Scenarios

Using Data to Describe Systems and Challenge Unstated Assumptions

Using Data to Describe the Forward Operating Environment

Using Data to Describe Future System Constraints

Un-sustainable and Sustainable Models for Economic Activity and Capital

Achieving Resilience to External Change

DAY 4

Overview of Strategic Planning, Starting a Change Programme

Transition Innovation and Creating Path Break Solutions

Designing a Path Break Solution for my Organisation – worked example

Back-casting, Designing a Programme of Change



Safe Operating Spaces for Organisational Change Programmes

Re-Defining Competitive Advantage

How to Start the Process of Change in an Organisation - trigger activities

DAY 5

Implementation and Management Tools - Course Assessment

How the Essentials of Management Systems Help to Implement Change

Back-casting and Translating a Change Programme into Day to Day Management

Examples of Management Tools for New Product Development and Construction

Building and Managing Teams to Support Change

Using Communications to Maintain Momentum