

# EMAK Workshop 3

## Guilin 15 Nov 2012

ROBERT TROMOP

ENERGY EFFICIENCY UNIT  
INTERNATIONAL ENERGY AGENCY

# 1. The Drivers for EM

- “the government made us change”
- Good business sense – growth, profit
- EE the next largest resource
- Focus on largest users or costs
- Utility, network pricing / incentives
- Global and local environmental challenges
- Business processes; ISO9000, 14000, 51000
- Product development
- Process technology developments; dry clinker,
- Crisis, recession, trade issues...
  - many drivers, not just MJs

## 2. FOCUS. Substantive change from:

- Much of the potential lies in a few growing energy intensive industries: mining, metals, cement, timber & paper, chemicals...
- process EE is often limited by chemical thermodynamics, but process scale, complexity and human factors offers large EM potential
- developing country productive sectors; >50% of TCE
- EM techniques also work for commercial transport, generation,
- Broad view of drivers; productivity not just GHG
- SME; IAC, 'supportive measure' how to 'hold their hands' cost effectively

# 3. EM policy options

- (Mandatory) energy saving targets
- ESCo – capacity and capability, finance
- Fiscal instruments & ES certs
- Norms, targets and benchmarks
- Audits, surveys, data analysis
- MV&E, assessments, reporting, compliance,
- Energy – mass thermodynamics analysis

# 4. EM strategies in industry

- commitment
- plans,
- leadership, people, organisation...
- data, evaluation,
- decision making,
- implementation, monitoring,
- communication,

These strategies are getting more sophisticated

# 5. EMAK must do....

- a. A really smart EMAK (multi-language) global communications portal with webinars etc
- b. EM process guides for industry; PRO, etc
- c. EM policy pathways for govt: PAT, EEO, IAC, policy options, etc
- d. Capacity building : training E managers technicians, consultants, governors, accountants, policy advisors, politicians ...
- e. Technology options that work with EM esp SMEs (Insulation)
- f. Help us understand the CE's mind, and how to motivate their EM behaviours
- g. Standards, systems, protocols, guides for EM techniques; data, HR, etc
- h. Identify multiple benefits and returns from EM measures
- i. Identify supply chain opportunities for EM (SMEs?)
- j. What can we do for globalised businesses?