




Long Term Agreements in the Netherlands and energy efficiency of motor driven systems

Motor Summit 2007, Zurich 10 April 2007
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Intelligent Energy  Europe

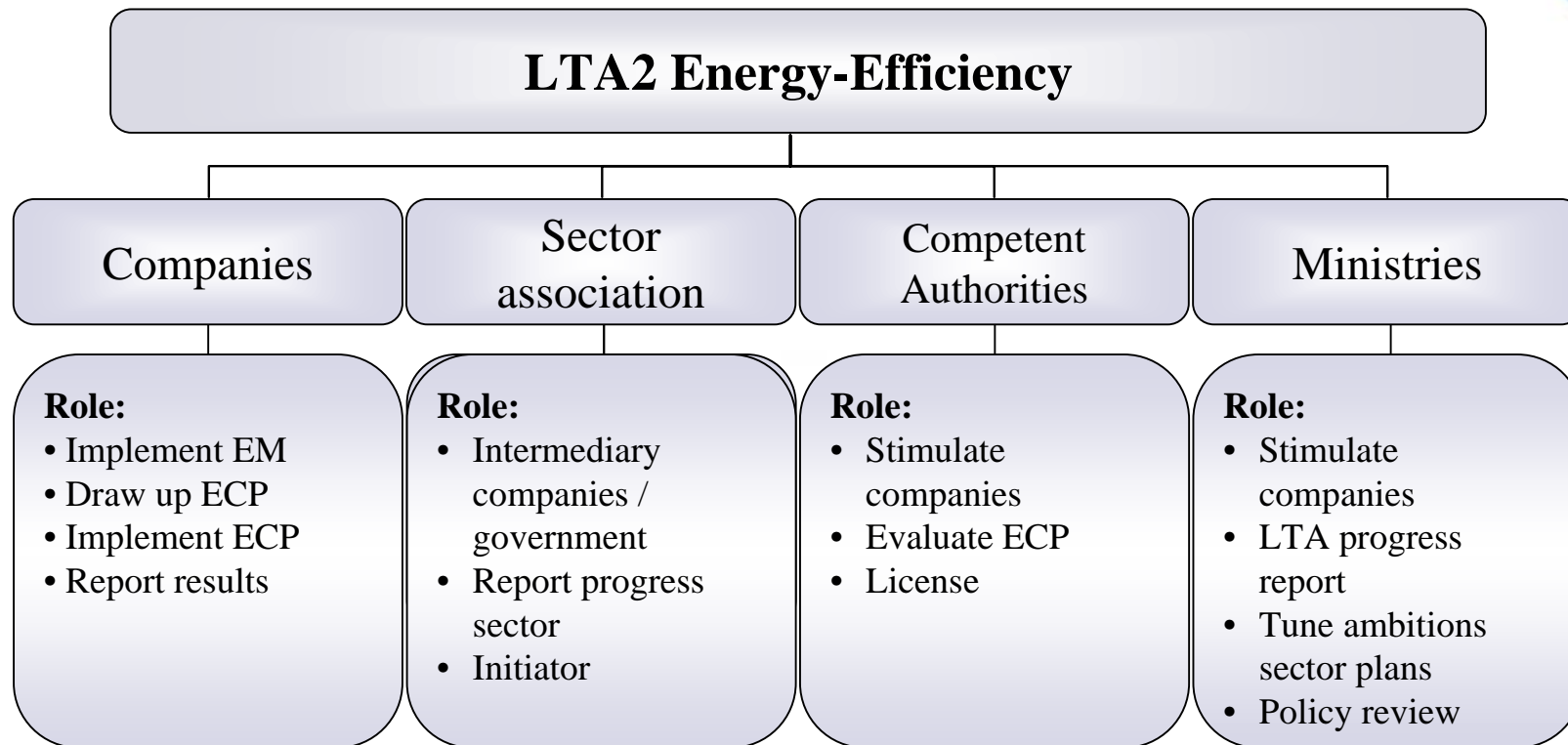


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 - Parties
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 - How is it included in LTA?
 - Present User Group motor systems

LTA

- 2nd Long Term Agreement (2001 – 2012) with Dutch Industries:
 - Per sector (80% of energy use and > 1 PJ)
 - Negotiated voluntary agreement between
 1. Branche-organisations (and it's member companies);
 2. Ministry of Economic Affairs;
 3. Municipal and Provinces associations (VNG and IPO)
- NB: energy agency is no contract partner, only facilitating the process
- Benchmark covenant for companies > 0,5 PJ
 - Only monitoring: top 10 of world in energy efficiency



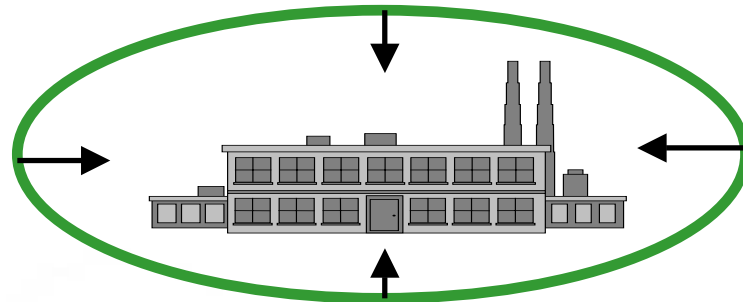
SenterNovem is **not** a participant of the LTA2 agreement

Sectors involved in LTA 2

- University hospitals
- Asphalt production
- Chemical
- Fine Ceramics
- Foundries
- Coarse ceramics
- Laundry
- Sand and limestone
- Refrigeration and coldstorage
- Non ferrous metals
- Oil and Gas production
- Surface treatment
- Non branche related
- Rubber and plastic
- Tank storage
- Carpet
- Textile
- Potato processing
- Vegetable and fruit processing
- Coffee roasting
- Margarines, fat and oils
- Flourmills
- Meat processing
- Dairy

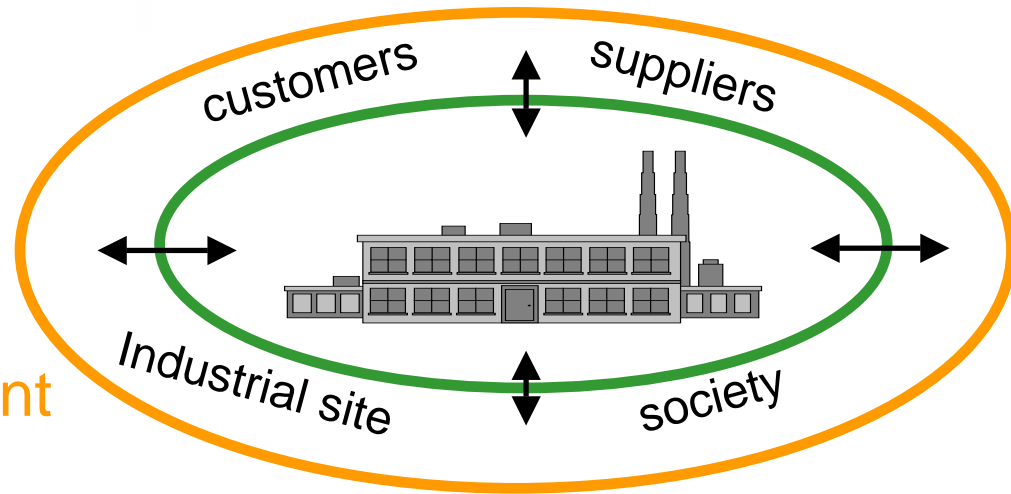
The LTA focus on energy efficiency

LTA-1



LTA-2

environment



LTA according to: Plan-Do-Check-Act

- Plan: make each 4 years an Energy Conservation Plan
 - Three types of measures: (measure list per branch available)
 1. Certain measures;
 2. Measures depending
 3. Uncertain measures;
 - Each measure describes what will change, % of energy reduction and tons of CO₂-reduction
 - For type 2 and 3: interdependencies are to be explained

LTA (plan-do-check-act)

- Do:
 - Certain measures are implemented;
 - Research, scans, audits for type 2 and type 3
 - Including ‘ expansion themes’
process intensification, transport, uses of renewables,
waist reduction/re use. (life cycle perspective)

Energy Agency contracts advisors for companies; best practices are communicated; user groups; assistance in energy conservation plan, monitoring, quick scans etc.

LTA (plan-do-check-act)

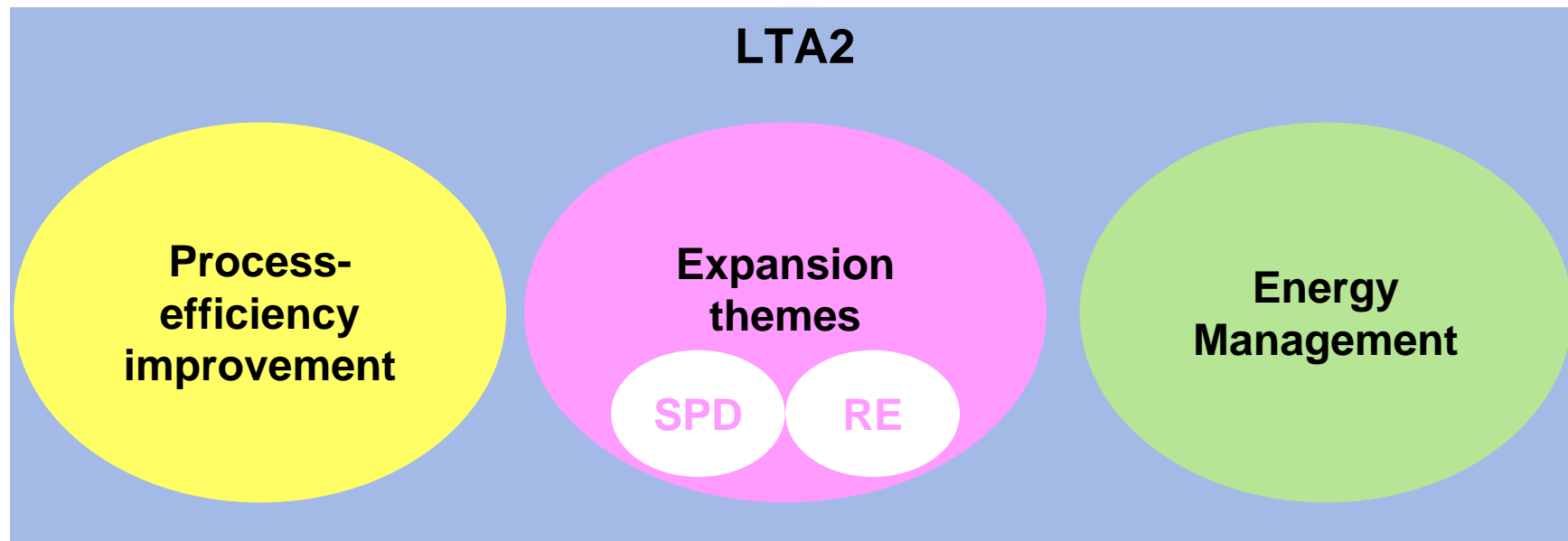
- Check:
 - Energy Management by each company (compulsory to obey threshold within two years)
 1. Internet-application: www.mijnenergiezorg.nl
 - Monitoring of energy use
 1. Energy Agency contracts advisors for each branch to facilitate data collection, and synthesis on branch level

LTA (plan-do-check-act)

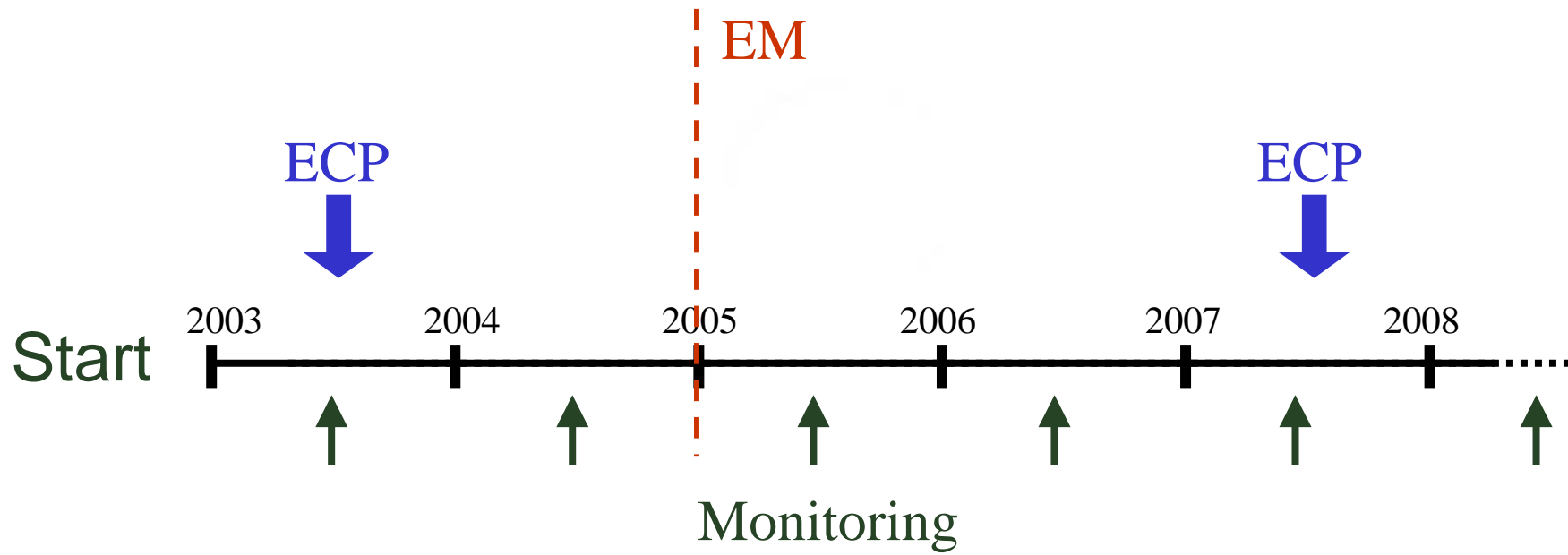
- Act
 - After analysis of monitoring figures on company level
 - Comparison with own branch
 - Comparison with other branches

LTA2: in brief

- Time horizon: 2001 – 2012
- Major goal: Continuously improvement energy efficiency



LTA2 sequence



How is LTA organized within Energy Agency?

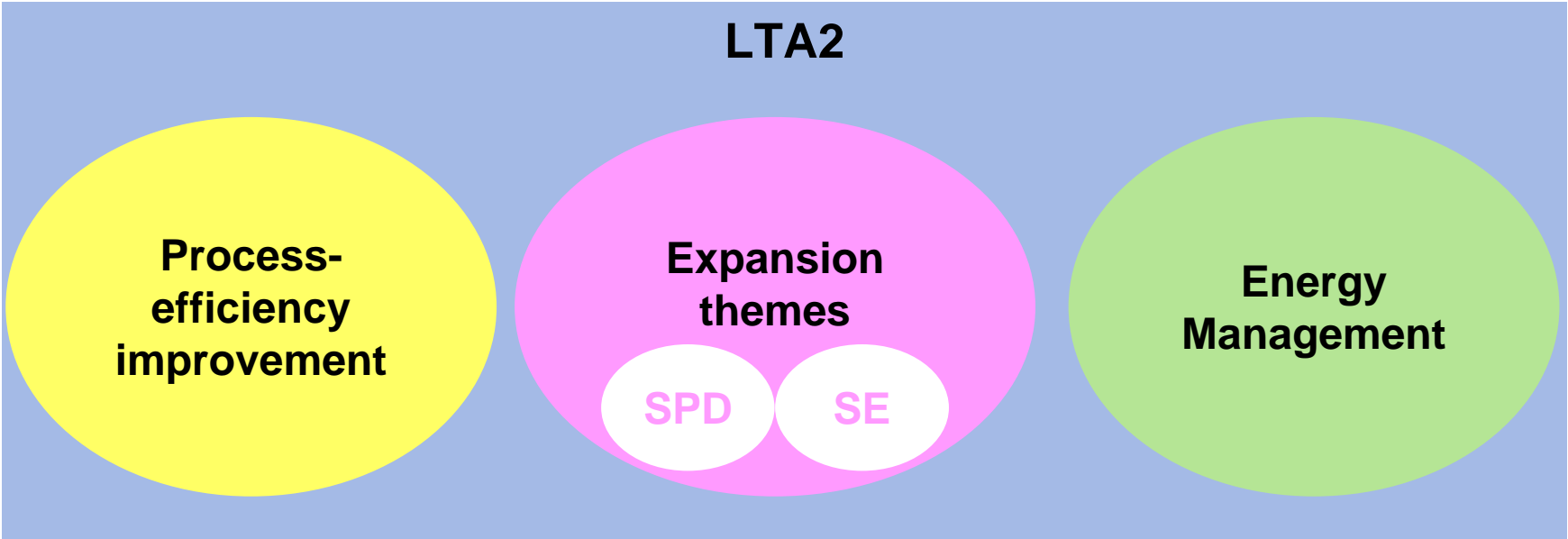
- Three clusters (50-60 people)
 - Front-office (contacts with branch organization)
 - Back-office (facilitating, making instruments, energy management)
 - Monitoring (checking monitoring and energy conservation plans)
- Energy advisors for instruments, monitoring, energy conservation plans are subcontracted
- Negotiating Groups Energy (per branch, twice a year)
- LTA platform (all branches, once a year)
- EEI (energy efficiency index) => 1,3 % yearly improvement

LTA in short for new company

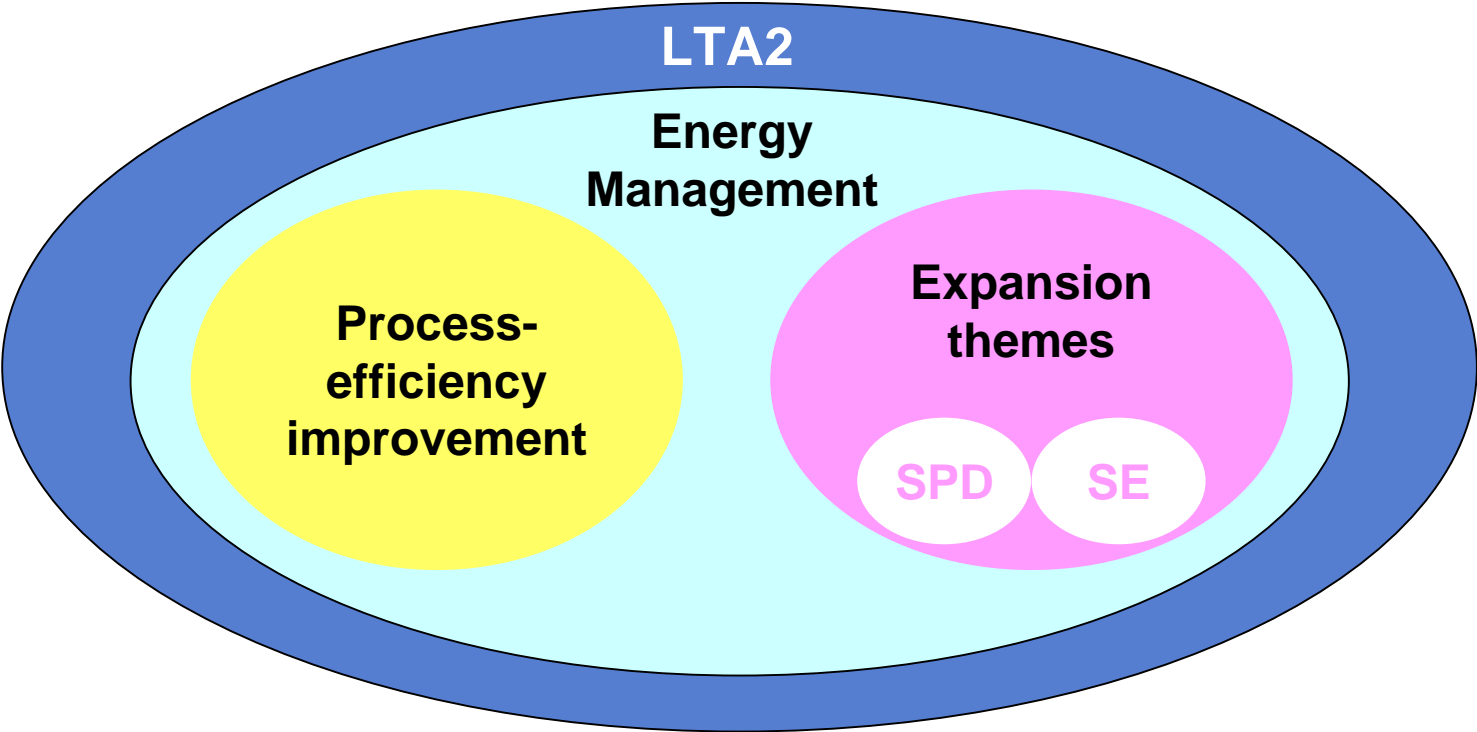
- Asks permission to be part of LTA
- Makes Energy Conservation Plan (as part of environmental permit)
- Starts Energy Management (threshold within 2 years)
- Starts yearly Monitoring

- Receives:
 - Advice on ECP (and Branch Conservation Plan)
 - Monitoring report
 - Assistance for scan's, research, advice for innovation subsidy

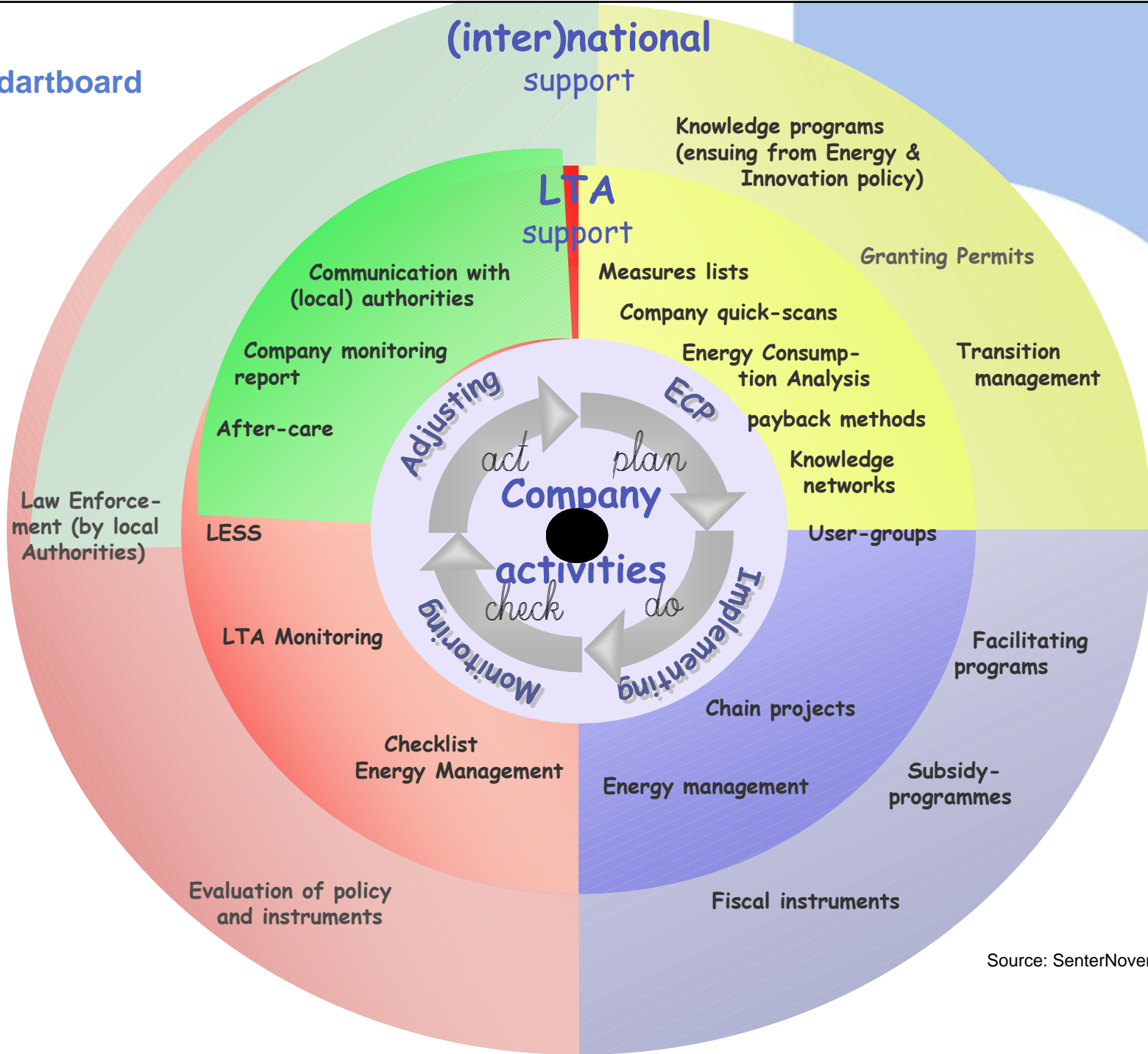
Initial mindset



Improved mindset



LTA dashboard



Source: SenterNovem, the Netherlands

Results: energy efficiency improvement per annum

- 1989 – 2000: 1,7 % (all industry)
- 2000 – 2003: 0,5 % (bench marking covenant: large industry)
- 2001 – 2004: 2,0 % (LTA2)
- 2005 – 2008: 1,0 – 2,0 % (LTA2)



LTA: 15 years of experience

Critical Success Factors of Agreement approach

- Shared responsibility
- Thinking in Opportunities
- Long Term Perspective
- 'Haarlemmer Olie'

Working Parts of method of facilitating

- Motivate
- Realise
- Make structural

Energy Efficiency Motor Systems

- Partner in Motor Challenge Program
- MCP-modules within measure lists for ECP
- Many user groups (for instance compressed air);
- Eff 1 motors are part of EIA-list (Energy Investment Allowance)
 - Since 2007 also MCP action plan itself is on the list
- This spring: User group on motor systems started
 - Including audit on site



Doe mee: verdien geld met MCP!

Het Europese 'Motor Challenge Programme' is een initiatief om industriële organisaties te helpen bij energie-efficiencyverbetering van alle door elektromotoren aangedreven systemen.

Doelstelling

Werven van 10 Nederlandse organisaties voor vrijwillige deelname aan het MCP, opdat hun systemen energie-efficiënter worden en de uitstoot van CO₂ vermindert.



[www.senternovem.nl/
energie_efficiency](http://www.senternovem.nl/energie_efficiency)

SenterNovem ondersteunt het MCP als 'National Contact Point' voor Nederland, vanuit de Meerjarenaafspraken energie-efficiency (MJA2). Geïnteresseerde bedrijven kunnen contact opnemen met Frank Hartkamp via info@senternovem.nl of (0900) 60 80 600

Deelnemers

Industriële organisaties die werken met de volgende technologieën:

- elektromotoren
- persluchtinstallaties
- ventilatiesystemen
- pompinstallaties
- (industriële) koeling

Voordelen

- ondersteuning bij opzet en uitvoering van Actieplan
- grotere betrouwbaarheid van technologieën
- winst voor het milieu: 30 tot 50% efficiencywinst
- winst voor de portemonnee
- MCP-partners genieten (inter)nationale erkenning

In opdracht van





Thanks for your attention

Further information:

- www.senternovem.nl/Ita
- Email: f.hartkamp@senternovem.nl