



sustainable energy for everyone



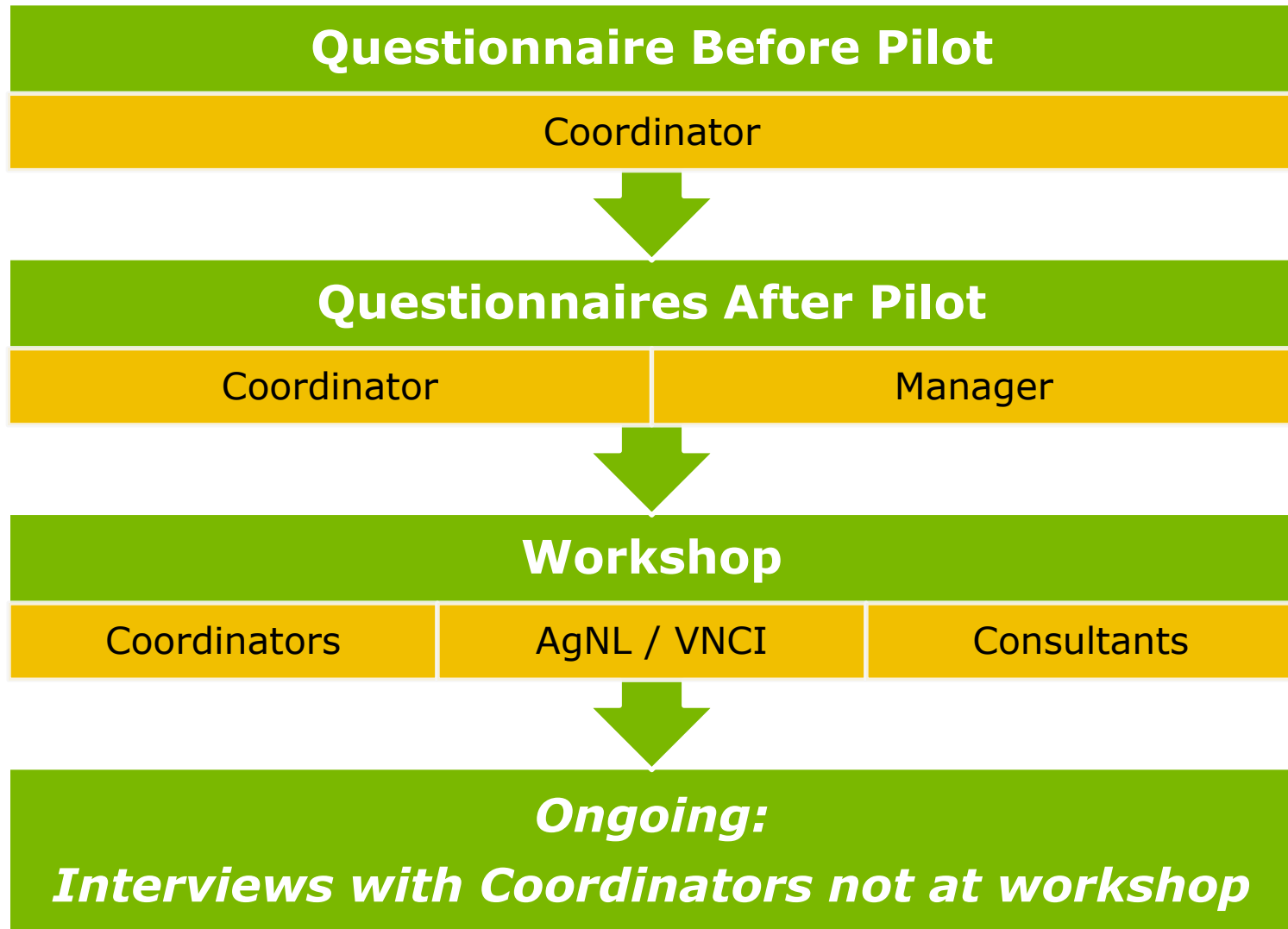
The Dutch Self Assessment Energy Pilots: Lessons Learnt

**1st Joint Responsible Care and
SPiCE³ conference**

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Independent Process to Derive Lessons Learnt



Perspective:

- > Preview on results:
 - Preliminary results, based on questionnaires and workshop;
 - Some interviews still to be done;
- > Perspective of stimulation of voluntary assessments and implementation of findings;
- > Limited number of pilots;
- > Self-assessment methodologies, tested with active participation of external consultant;
- > Ecofys Report Q1/2014 on AgentschapNL website.

Benefits / Drawbacks

Benefits (managers)

Increased awareness of use / cost of energy

Structured, thorough method, also for idea generation

Overview / Prioritization provides fundamental for follow up

New technical opportunities shown / low hanging fruit → Cost Savings

Drawbacks (managers)

Need for human resources

Not certain whether we can implement

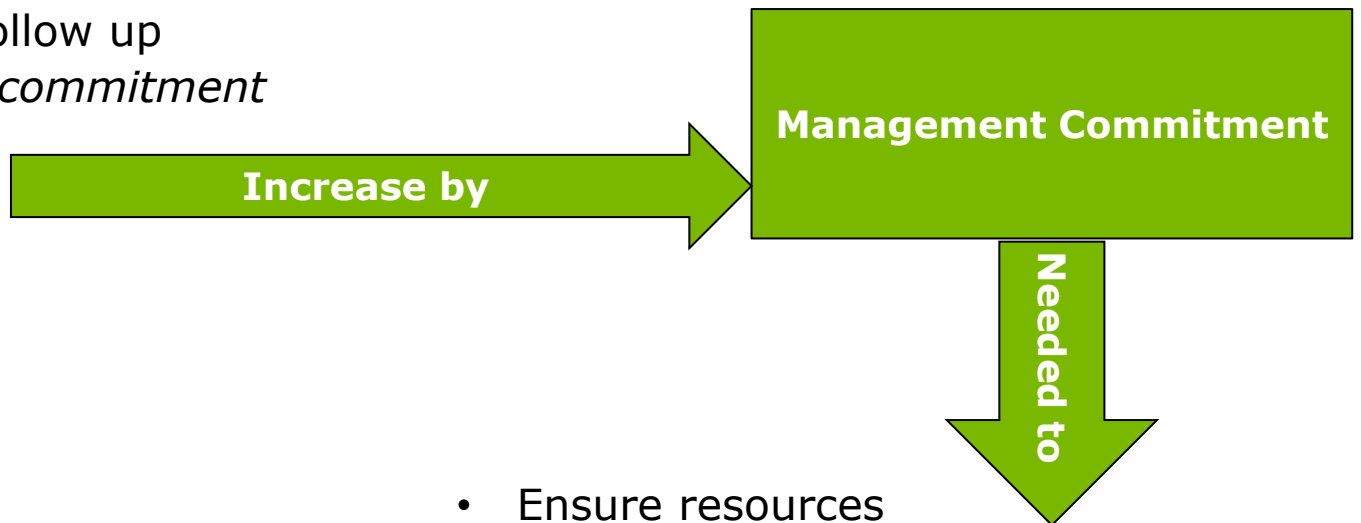
Not yet possible to do without external consultant

Smart Choices *in set up of energy assessments:* Great Effects!



Commitment

- Involve and inform
- Show business case, quick wins
- Meeting targets
- Delivering structured overview as basis for follow up
- *Increased commitment*



- Ensure resources
- Function as a driving force / role model
- Endorse / sell proposed actions
- Ensure prioritization with other actions
- Define energy policy
- Integrate energy management
- Communicate results

Context

- > Energy use:
 - Historic and current
 - Where is the energy used?
- > Knowledge levels
- > Management systems
- > Investment thresholds
- > Earlier studies

- > *Increased:*
 - *Awareness that energy policy is needed,*
 - *Status of energy management,*
 - *Communication.*

Human

- > Multidisciplinary approach needed
- > *Focus on behavior important*
- > *Staffing*



Focus on Delivering Added Value

- > Focus depends on the aim of the assessment:
 - All steps of methodology?
 - All parts of the process?
 - All technically possible measures?

**You don't know what
you don't know**



**Focus on key areas with
highest improvement
potential**

- > Discuss and decide upfront!
- > Ideally, based on actually measured energy use. In the absence:
 - Improvement plan metering
 - Work with reasonable estimates on potential

Appropriate Tools

- > Inspire with improvement measures / areas to focus on
- > Compare with best in class data
- > Cover both organizational and technical improvement measures

QUALITATIVE INFORMATION	
STEP 4 ENERGY MANAGEMENT STRENGTHS AND WEAKNESSES	
ENERGY MANAGEMENT ASSESSMENT OF YOUR SITE	
Commitment and Energy Policy	1
1 No explicit policy	
2 Unwritten set of guidelines	
3 Unadopted policy	
4 Formal policy but no active commitment from management	
5 Energy policy has active commitment of management	
Roles and Responsibilities	2
1 No delegation of responsibilities	
2 Informal 'ad hoc' delegation	
3 Some delegation but line management involvement unclear	
4 Clear line management accountability	
5 Energy management fully integrated into the organisation	
Target and Projects	1
1 No targets and no investments in improving energy efficiency	
2 Good Housekeeping targets and low cost initiatives only	
3 Also low & medium cost measures considered if they have a short pay back period	

Follow-Up: Automatic Follow-Up not guaranteed!

Discuss overview with management at end of the energy assessment, presenting substantiated choices showing:

- **Economic profitability**
- **Effort required**
- **Change of success / complexity**
- **Exact scopes and first steps of implementation process**

Assessment

Overview

Prioritization

Implementation

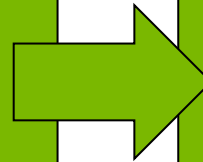
- **Staged approach, increasing accuracy?**
- **Voluntary assessment → Use own investment threshold criterion.**

- **Ensure a conscious decision is taken for all measures proposed!**
- **Consultant → Follow-up call after 1/2 year.**
- **Energy Management → Energy audits**
- **Covenant → Yearly monitoring**

Role of facilitator

Facilitators could add value by:

- **Knowledge:**
 - **Bring**
 - **Credibility**
- **Guidance:**
 - **Help in focusing**
 - **Explain tools**
 - **Project management**
- **Give a fresh look**



Success Factors:

- **Commitment**
- **Context**
- **Human**
- **Focus**
- **Tools**
- **Follow-up**

Mission, Vision & Values – Facts & Figures

Mission

sustainable energy for everyone

Vision

Based on our deep expertise in energy & carbon-efficiency, renewable energy, energy systems & markets, and energy & climate policy, we develop smart policies and solutions and bring them to life. We know that, if we act now, by 2050 our global energy system can be sustainable, secure, affordable and fully based on renewable sources. We aim to create a sustainable energy system for everyone.

Values

Dedication Originality Impact Trust

Facts & Figures

- Founded in 1984
- Over 250 professionals, 7 offices in 6 countries
- Over 500 clients served across 50 countries
- Leading experts: the Nobel Peace Prize 2007, awarded to Al Gore and the IPCC, was supported by 10 Ecofys experts
- Eneco Shareholder since 2009

Background – Ecofys Industrial Processes

- http://www.ecofys.com/files/files/ecofys_2012_industrial-processes.pdf
- **Selection of Services:**
 - Sustainability strategy
 - Value Chain Footprint
 - Sustainability benchmark
 - Carbon Finance Mechanisms
 - Greenhouse Gas Abatement
 - Renewable Energy Feasibility Studies
 - Supply Chain Carbon Cost Analysis
 - Carbon Complete Service
 - Low-Carbon Roadmap
 - Carbon Leakage Assessment
 - 2050 Workshop



