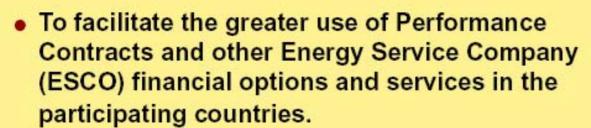
# Performance Contracting

Graz, 2 October, 2002
Dr Hans Westling
Promandat AB

# TASK OBJECTIVES





 It is a business-to-business Task, limited to efforts involving the Performance Contracting agreements and other ESCO related financial options and services between client, businesses and all types of companies offering these services.

In short "Payment in relation to performance"

# **PARTICIPATING COUNTRIES** leadsm' Finland Norway

Sweden

**Netherlands** 

Italy

Japan

**France** 

**USA** 

May 27–29, 2002 PROMANDAT AB

# **Motives**



- For some property owners and users the main reason can be lack of investment money
- For some it is simply a very economical business strategy. We only pay when we see value-added functions as reduced energy bills
- For the ESCOs it is a good business argument and a way to connect with customers and start new business relations
- For some companies and government organizations it can be a very efficient way to inspire innovations and to facilitate the introduction of more efficient solutions

Motives for choosing a Performance Contract or other ESCO arrangement May 27–29, 2002 PROMANDAT AB

# **NAESCO Database**



# Electricity Savings

# Lighting only projects

 median savings is 47% of targeted equipment

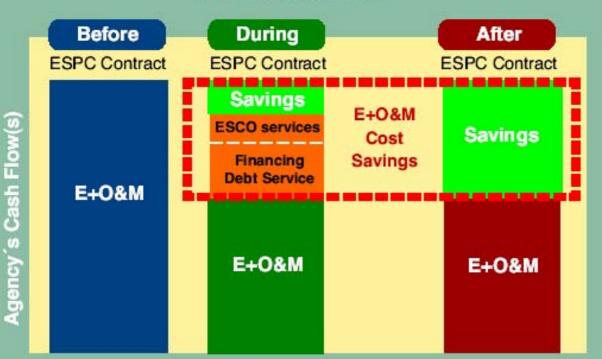
# Lighting/nonlighting projects

 median savings is 23% of total electric bill 1500 energy efficiency projects members supply the data

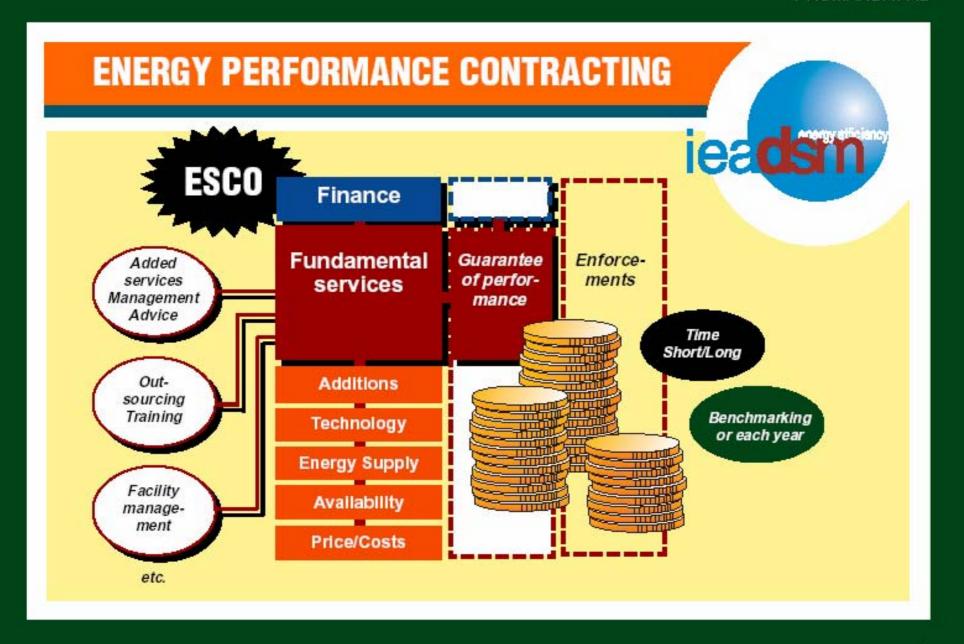
ieadsm

# Payment for EPC contract

ESPCs Reallocate the Federal Customer's Payments for Energy and Energy-Related Operations & Maintenance Expenses (E+O&M)



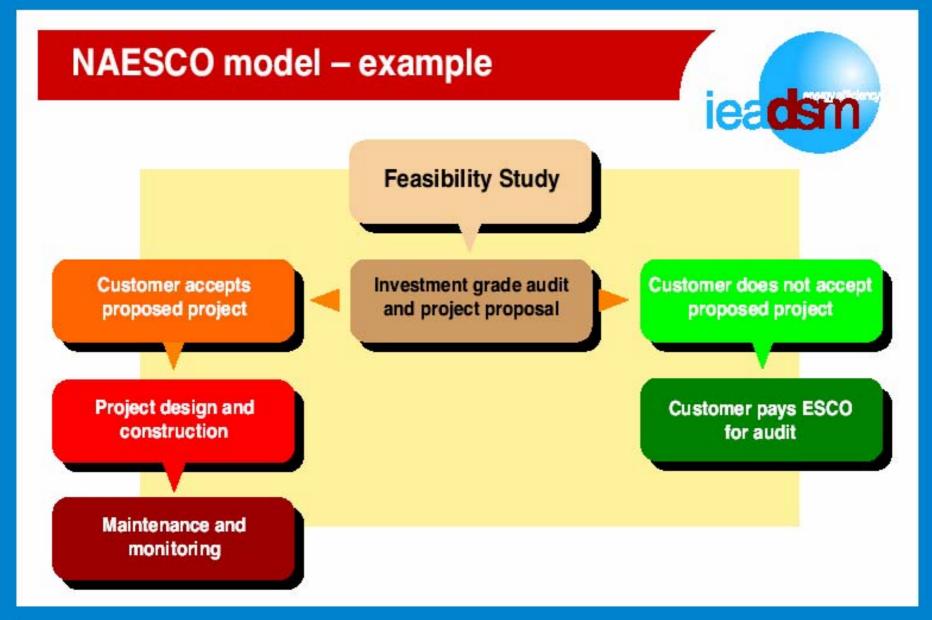
Source: FEMP. 2001



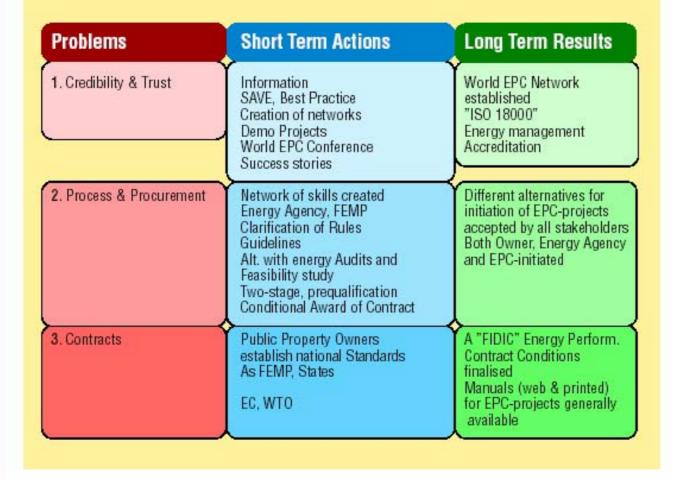
# **BARRIERS**



- Slow movement from buyers
- Lack of understanding of the opportunities
- Lack of information
- Time consuming work for
  - raising interest in general formulation of contracts
  - measuremnet and verification attitude and culture
- Lack of Public Recognition
- Procurement rules (Absence of bidding system)
- Lack of General Conditions
- Lack of Technical experts
- Lack of capital
- Different responsibility for investment and operation
- Low energy prices

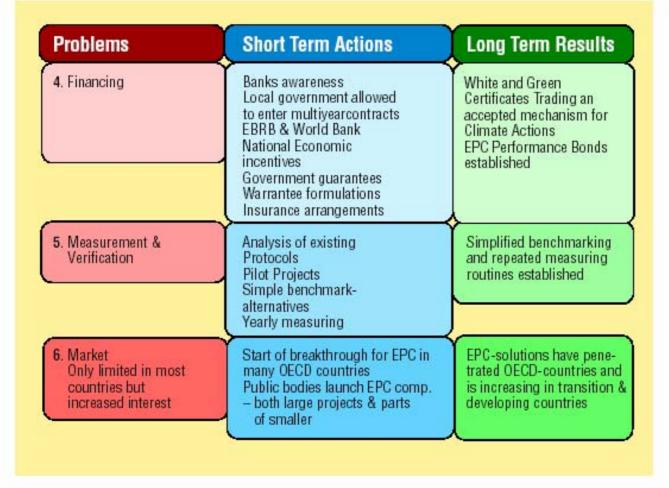


## **EPC PROCESS – PROBLEMS – ACTIONS – RESULTS**



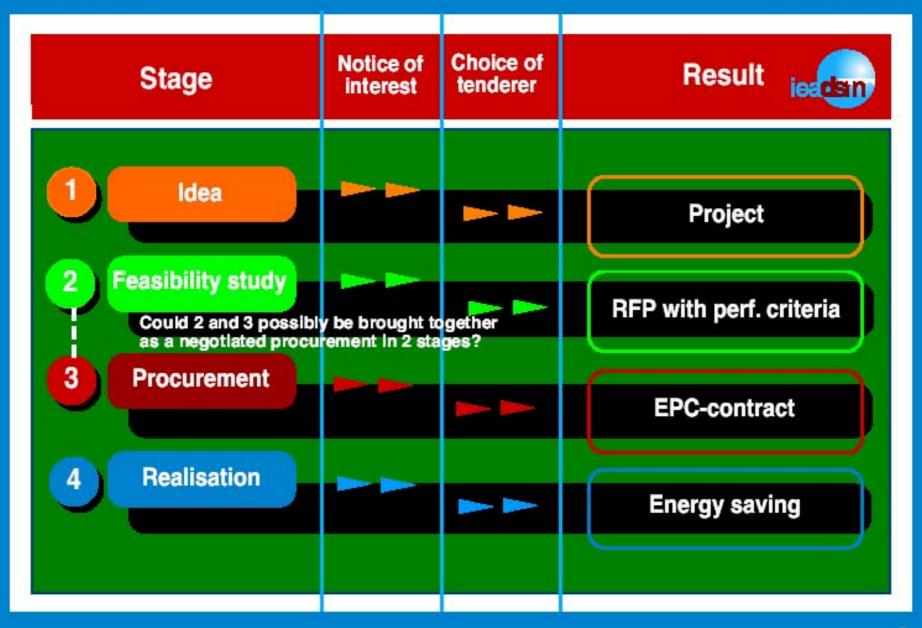


## **EPC PROCESS – PROBLEMS – ACTIONS – RESULTS**



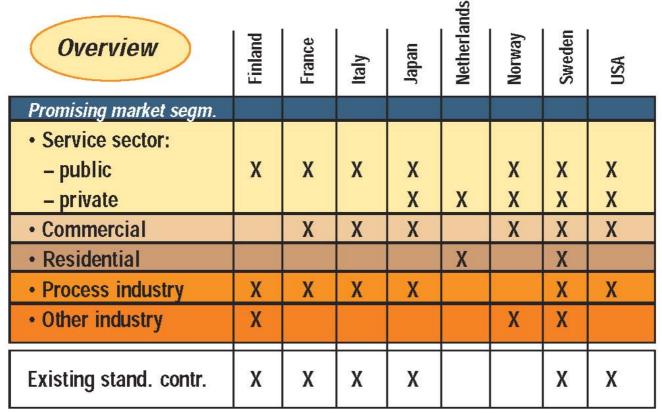


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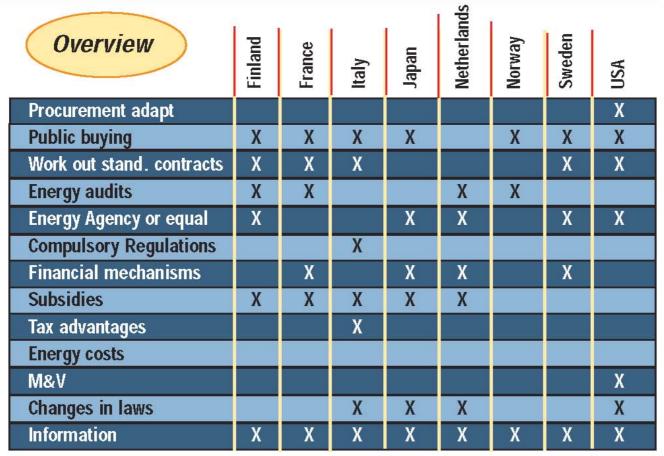
# Market Segments - Perf. contracting





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# **National Government Programs & Policies**





# **EPC** market potential per year



Estimation						
		Today 2000-01		Tot. potential		%
()		Euro	USD	Euro	USD	Today/ potential
1	"Europe"	150 mill <sup>1)</sup>	135 mill	<b>70</b> bill <sup>1)</sup>	63 bill	0.2%
2	Japan		64-196 mill <sup>2)</sup>		19 bill <sup>2)</sup>	1%
3	USA		1.8-2.0 bill <sup>3)</sup>	≈70 bill⁴)	≈63 bill	3%
Total 1–3			2.3 bill		144 bill	1.5%

#### Sources:

- 1) Lambert, 1999
- 2) Country Report Japan
- 3) Country Report USA
- 4) Leutgöb et al, 2000
- 1 USD = 1.1 Euro

# CTI Recommendations

A workshop by IEA/CTI 2001



- Third-party financing is not applied to its full potential in the countries in Central Europe
- Further development of the regulatory framework is desirable so that the services can be better utilised in the public sector.
- The procurement rules can be refined.
- An association of ESCOs could be a good network.
- Central European countries should recognise TPF and granting relevant incentives.
- Important that national administrations show examples of using TPF.
- Further discussions should be taken up about future actions, including also the discussion with the ongoing IEA DSM Task X "Performance Contracting" for information on experiences with necessary regulatory and legal context.

# **EU Actions**



- Proposal for a Framework Directive for Minimum Efficiency Requirements for End-Use Equipment.
- Proposal for a Directive on Linking Project-based Mechanisms including JI and CDM to EC Emissions Trading Scheme.
- Proposal for a Directive on Energy Demand Management.
- Initiatives on increased energy-efficient public procurement.

# Possible actions from European mission

## What we need to further develop ESCOs in the EU

- Clear definition of ESCO at EU level.
- ◆ Draft Directive on Energy Services
- ◆ Possible EU Code of Conduct for ESCO linked to:
- ◆ Possible EU wide Accreditation of ESCO (by who?).
- ◆ EU list of accredited ESCO and establishment of the European Energy Service Company Association (EAESCO).

# **SUGGESTED ACTIONS**

- 1 Information
  - Seminars
  - Training
  - Education
  - Calculation templates
  - The importance for the environment
- 2 Introductory Energy Audits as a background for EPC contracts
- 3 Procurement
  - Guidelines and clarification of public procurement rules
  - Examples of tendering procedure with evaluation criteria (weighting) and pre-qualification
- 4 Standardised principles for EPC contracts



# SUGGESTED ACTIONS...

- 5 Financing Incentives
  - Flexible loan and leasing solutions
  - User organisations allowed to keep energy saving in their own budgets
  - Support/incentives for energy-efficient solutions
  - Subsidies
  - Tax exemption
  - SMB
  - Government guarantees under certain conditions
  - Higher energy prices
- 6 Facilitating for government federal, regional and local to enter into multi-year agreements



# **SUGGESTED ACTIONS...**

- 7 Energy Agencys and Owners launch EPC procurements
- 8 Retrofitting through EPC arrangements in government buildings gives strong message
- Quality Certification Schemes for EPC projects and stakeholders
- 10 Simplified benchmarking for measurement and verification
- 11 Model projects

