



Katılım Öncesi Yardım Programı  
Eşleştirme Projesi: TR03-EY-01



Pre-accession Assistance Programme  
Twinning Project: TR03-EY-01

# Twinning Turkey

## Improvement of Energy Efficiency in Turkey

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### Workshop : Energy Audit and Services

**THE FRENCH ENERGY AUDIT  
PROGRAMME**

# French Context

- The National Programme for Energy Efficiency (dec. 2000)
  - The government defines objectives and operational responsibility of ADEME.
  - New stronger thermal regulation : revised each 5 years
  - Energy saving programme for the industry and public sector buildings
  - Energy labelling for all sold buildings and rented ones

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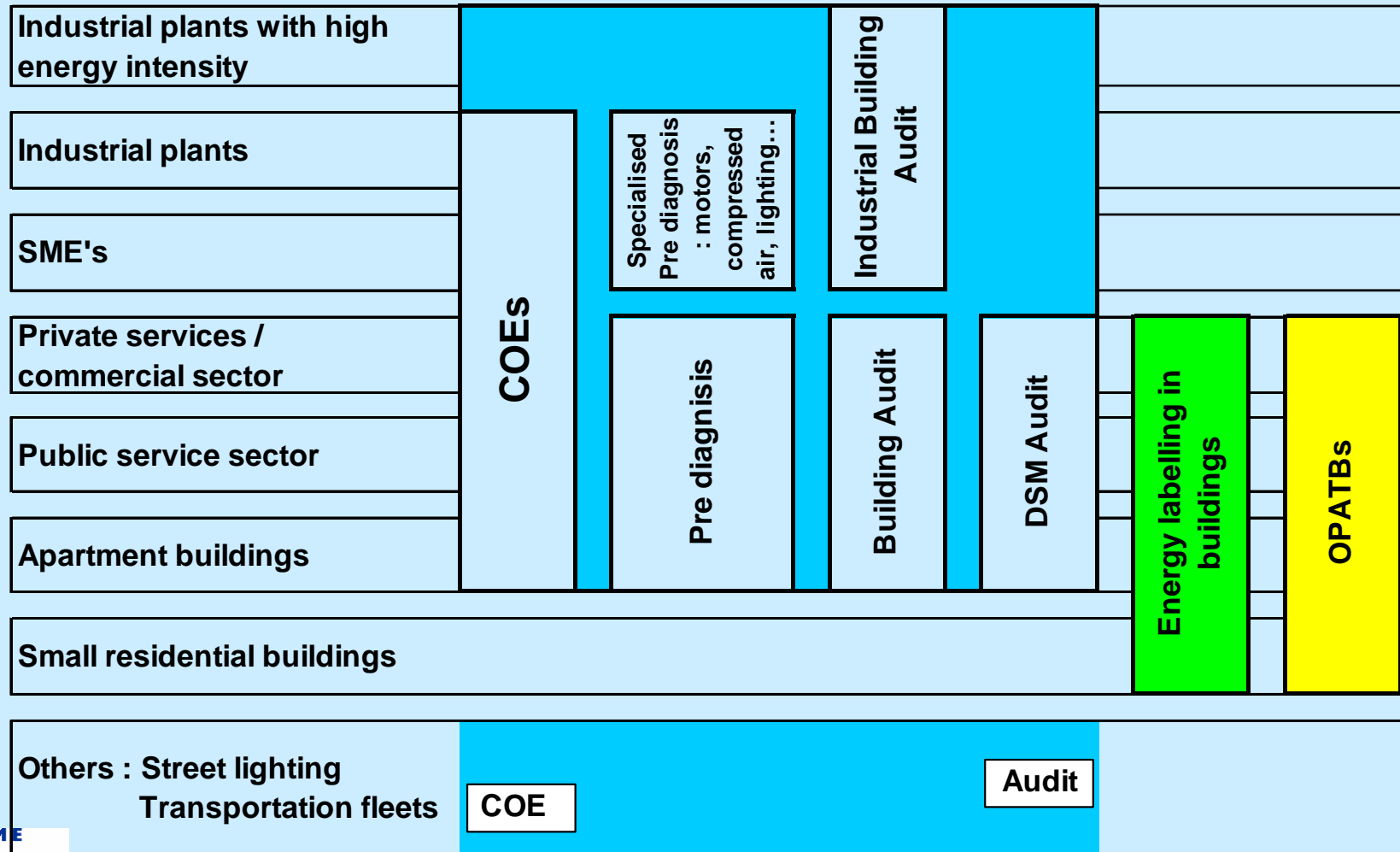
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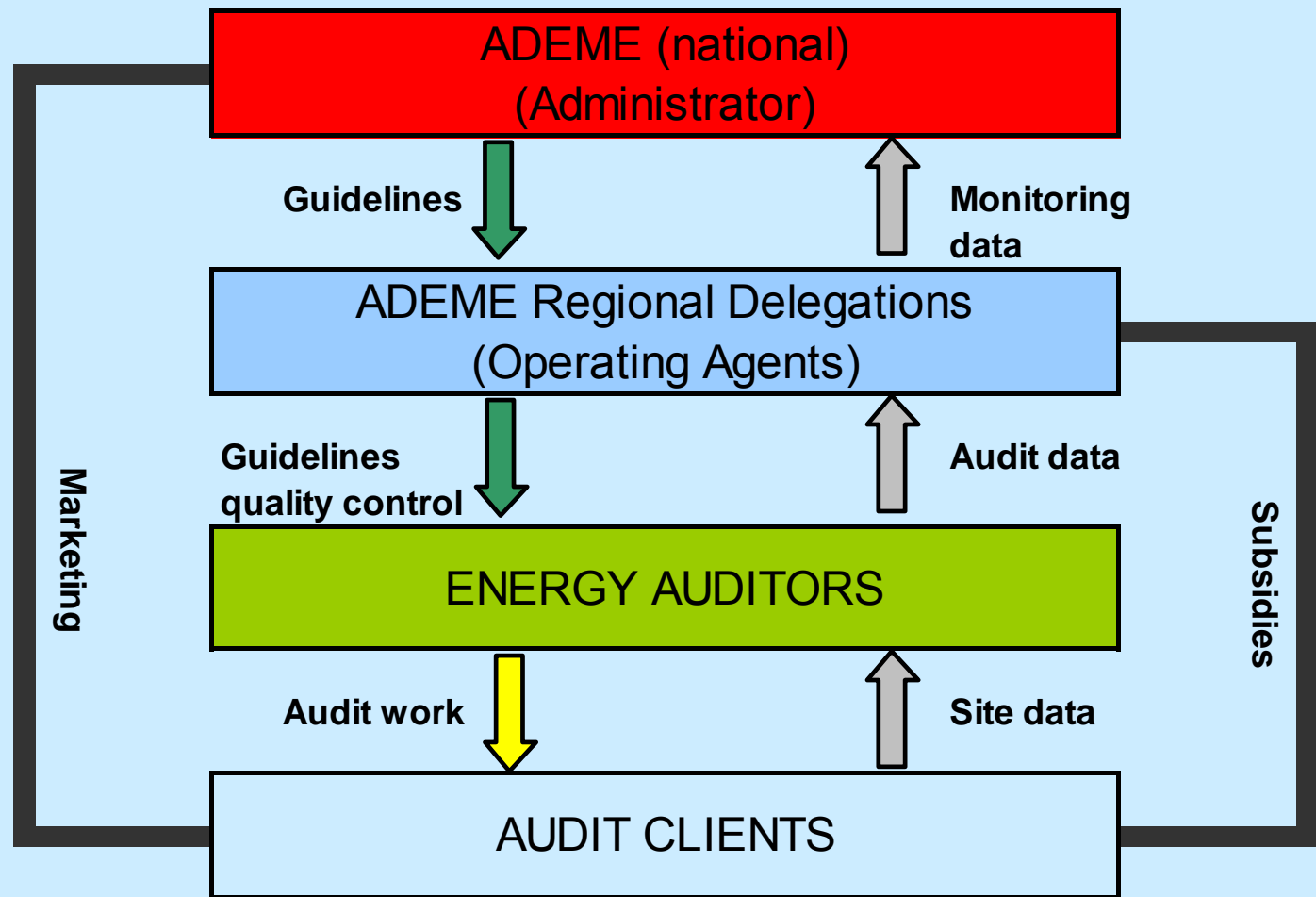
# Energy audit programmes

- Decision Making Support Scheme (DMSS) programme targeted to all sectors (community, building, industry) excluded individual houses otherwise treated.
- Different audit models have been developed according to the precision needed, and the considered purpose:
  - Overall audit (COE): for a big number of buildings, transportation fleets of vehicles ...,
  - Pré diagnosis,
  - Diagnosis, Building audit,
  - Feasibility study,
  - DSM audit for electricity uses

# Energy audit programmes (1)



# French DMSS organisational structure (Decision Making Support Scheme)



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# Auditor charter

- Training of auditors
- Chartering of auditors – the auditors contract a charter and are referenced in ADEME base
- Quality control of audits by ADEME

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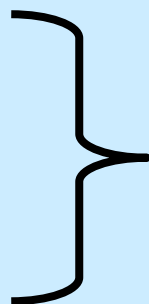
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# Financial partnership

- Involvement of state and local authorities,
- Energy management financial fund created by ADEME and Regional Council for
  - Audits,
  - Exemplary operations (investment),
  - Training sessions,
  - Communication.
- Some local authorities have created Energy Efficiency subsidies for houses energy retrofit, solar water heater, best EE practices...
- Some put conditions to their financing to energy efficiency objectives (social housing)



**4 M € per year  
for Picardy**

# The « market »

- Subsidy to the owners
  - 50% for diagnosis and feasibility studies
  - 70% for overall audits and pre diagnosis
- Promotion of audits : brochures,
- Audit of about 10 000 buildings and industries per year
- Building labelling causes a new field for auditors activity



# The Actors

- Buildings owners and their associations :
  - communities, Mayors associations, regional union of housing, secondary and high schools, state buildings, religious congregation,
  - Industry and Commercial Chamber, Technical centers, industrial federations...
- Auditors and their organizations : CICF, SYNTEC Ingenierie, AICVF, UNSFA
- University, training centers



Easier to convince when the owner pays the energy bills

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# Industry sector

- Disseminating auditing
- Auditing in industrial branches : textile, cement, agrofood, sugar factories, laundries...
- Funding of special advisors in Industrial and Commercial Chambers
- Promoting the SME : training sessions for auditors, exhibition for employees, funding the audits

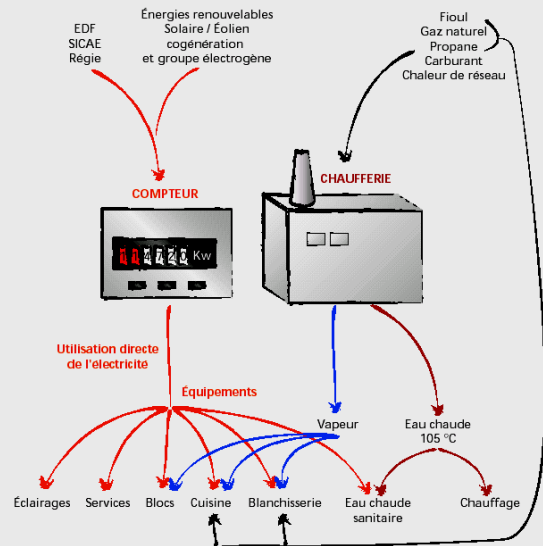
# Hospital sector

- Partnership with Energy Hospital Network
- Technical meetings on actuality subject ( 4 per year)
- Database on energy, water and wastes
- Energy global audit in hospitals
- Electric consumption audit in 25 hospitals to prepare electricity market liberalization



## DÉFINITION

**Matière ou système permettant la réalisation d'un travail énergie mécanique, calorifique, cinétique.**



La Loi n° 96-1236 du 30 décembre 1996 sur l'air et l'utilisation rationnelle de l'énergie fixe des objectifs plus ambitieux en vue de limiter la pollution de l'air et d'utiliser des énergies moins polluantes.

Faisons attention aux consommations d'énergies dans l'établissement.

**MIEUX CONSOMMER POUR MOINS POLLUER**  
**MOINS CONSOMMER POUR MOINS POLLUER**



# Exhibition about Energy and environment in hospital

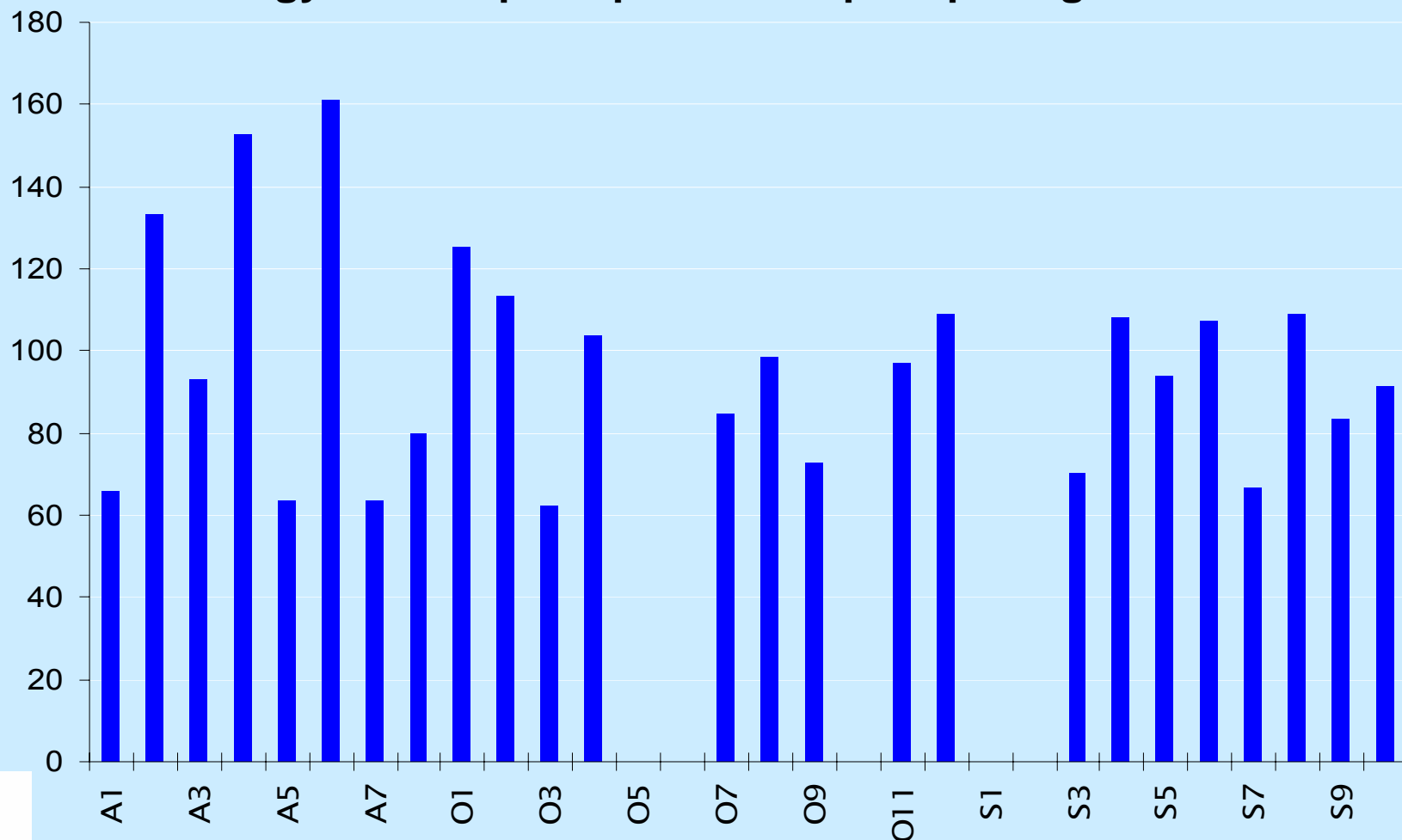


# Collective thematic operation

- Used for a type of owners or a type of building or industry : animation, audit and communication
  - Swimming pools : compare the results for action
  - Small communities : replace failure of technicity by active participation

# Swimming pools ratios

energy consumption per m<sup>2</sup> and per opening week



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