Drivers of the Energy Efficiency Measures in the Turkish Building Sector

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Success Factors for the Energy Efficiency in the Building Sector

- Energy prices
- Institutional support
- Legislation
- Awareness Raising (public and private institutions)
- Allies for EE policies (industrial lobbies, professional associations etc.)

Energy Saving Potential in Existing Buildings in Turkey

- 31% of the primary energy is consumed in the buildings,
- 8,5 Million buildings
- Up to 50% savingspotential
- ~85.000 GWh

Energy Efficiency Strategy

 To transform ¼ of the building stock (as of 2010) until 2023 into sustainable buildings!

Allies for EE policies

Business Associations and NGO's related to EE:

Heat Insulation Industrialists Association

Polystyrene Producers Association

Autoclaved Aerated Concrete Producers Association

Green Building Association

ISKAV - Heating, Cooling, Air Con. Research Foundation

Activities: Publications, Training seminars, consultancy, tests of heating cooling equipment, certification etc.

ISKID - Air Conditioning & Refrigeration Manufacturer' Association













Allies for EE policies

Business Associations and NGO's related to EE:

AGID - Lighting Equipment Producers Association

Activities: Supporting EE policies, Turkish Lighting Magazine, Interlight Istanbul Fair.



Activities: Contribution to the PVC window & door standards, Opened a Window School for vocational training.





TTMD - Turkish Association of HVAC Engineers

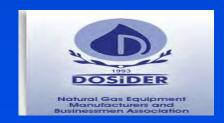
Activities: Transfer's Technology And Know-How, ccontributes to the EE legislation, publishes a monthly bulletin (4000 cost free examples) and technical books, organizes professional training, technical symposiums and fairs.



BESD - White Appliances Industrial Association

Activities: Labelling of household appliances, advocates market transformation of houshold appliances.

DOSIDER - Natural Gas Equipment Manufacturers and Businessmen Association



Allies for EE policies

Association of Thermal Insulation, Waterproofing, Sound Insulation and Fireproofing Material Producers, Suppliers and Applicators



Activities:

Drafting insulation standards and regulations,

Cost free seminars and training programs,

Established an Insulation Technologies Department and a Labaratory at the University

Organizes the Fair ISK-SODEX and parcipates at the Construction Fairs,

Public awareness campaign "Insulation is an Investment",

Established a test and certification body,

Insulation World Magazine,

Help desk: web site and free hot line o800 211 33 67,

e-mail group: YALITIMTURKIYE@yahoogroups.com for the

insulation professionals.





Sekerbank-IZODER Cooperation for Retrofitting of Buildings



Approves Technical Documents according the standards

Offers free project control service

Acts as an expert in case of a dispute

Evaluation of Temporary Results

Project start: August 2009 Evaluation: First 2 years

Number of Units: 21.580

Total Area: 2.148.000 m2

Total Loan: TL85.580.000 (~€45.000.000)

Energy Savings: TL33.414.000 /year

CO₂ Reduction: 112.952 t /year



Process in Brief

Şekerbank 👆





Consulting at the bank and the building manager has been be directed to an expert company.





Technical part of the contract has been proved according the TS825 standard and approved.





Building manager applies for the loan and opens an account for the installments to be paid by the owners. Loan has been approved.







The company studies the premises and prepares an offer, a non-binding contract has been signed.





Assembly of flat owners agree to approve the contract and to take a loan from Şekerbank.







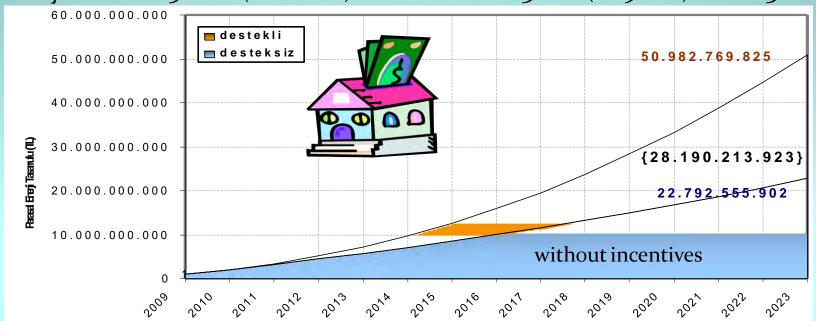
Bank pays the company according the progess of the work and the rest payment has been made after the finalization of the retrofitting.

Main Barriers and Success Stories in the Building Sector

No incentives,

Source.IZODER

- Commercial and semi-commercial financing programs are in the implementation phase (Turkish Banks, EBRD, AFD etc.),
- Banks need still to learn more,
- Şekerbank-IZODER cooperation worked well.
- With government incentives, the energy savings in building sector may reach TL51 bill (~€21 bill) instead of TL23 bill (~€9 bill) in 2023



Thanks! hyy629@yahoo.com