

Energy Efficiency in Industry

– aimed actions leading to
extended awareness all through
the corporation

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Energy efficiency in manufacturing industry and retail businesses

- Energy audits of 120 companies
- Arrange training for 600 persons
- Provide information on energy management
- Create energy efficiency networks
- Support energy advisors
- Reduce energy consumption by 10%



Purpose and background

- More knowledge about the companies' energy use
- Increase awareness of energy through information and education
- Energy is low priority in companies
- Still great use of fossil fuels
- Not enough improvement work



Implementation

- Site specific professional report
- 32 data and key figures of 108 sites
- Energy use in various fields of activity
- Proposed actions
- Quantified savings in each field of activity



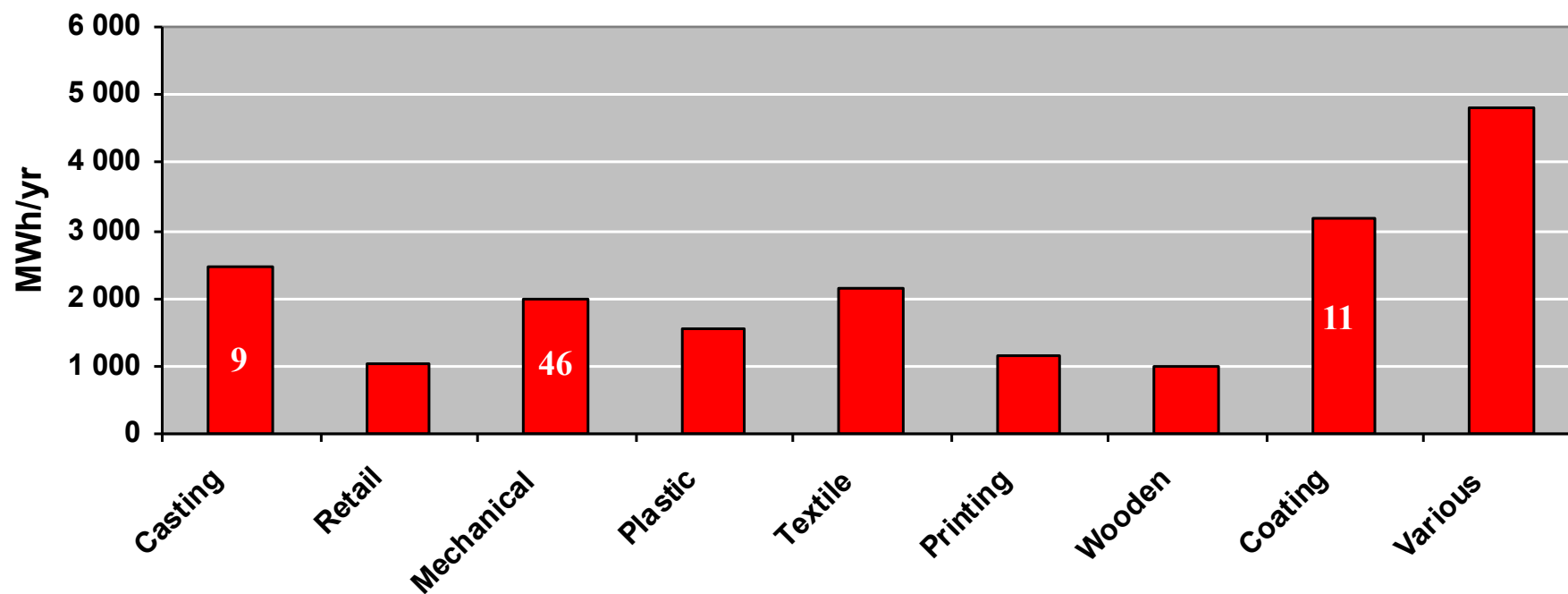
Additional measures for the companies

- 2 hours of training by energy advisor
- Partly responsible for the energy audit
- Written report with conclusions and actions
- Personal contact with consultant after completing energy audit



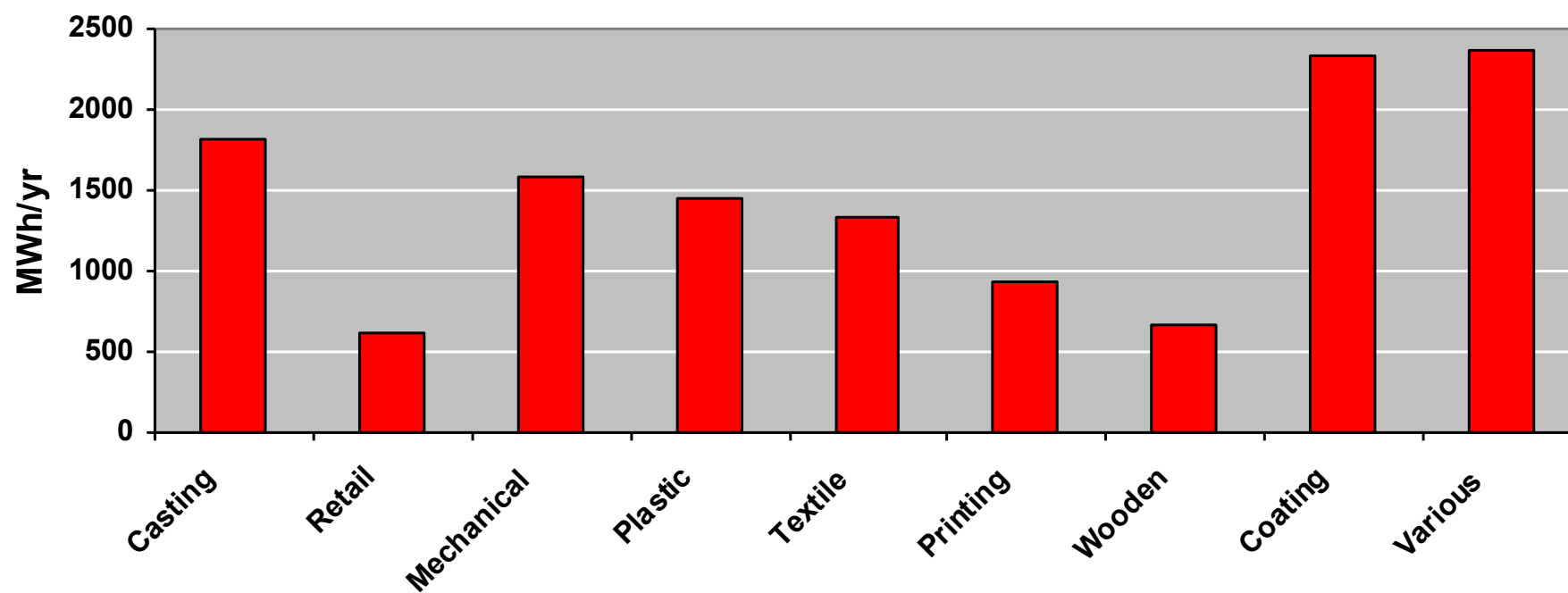
Results

Average total energy use



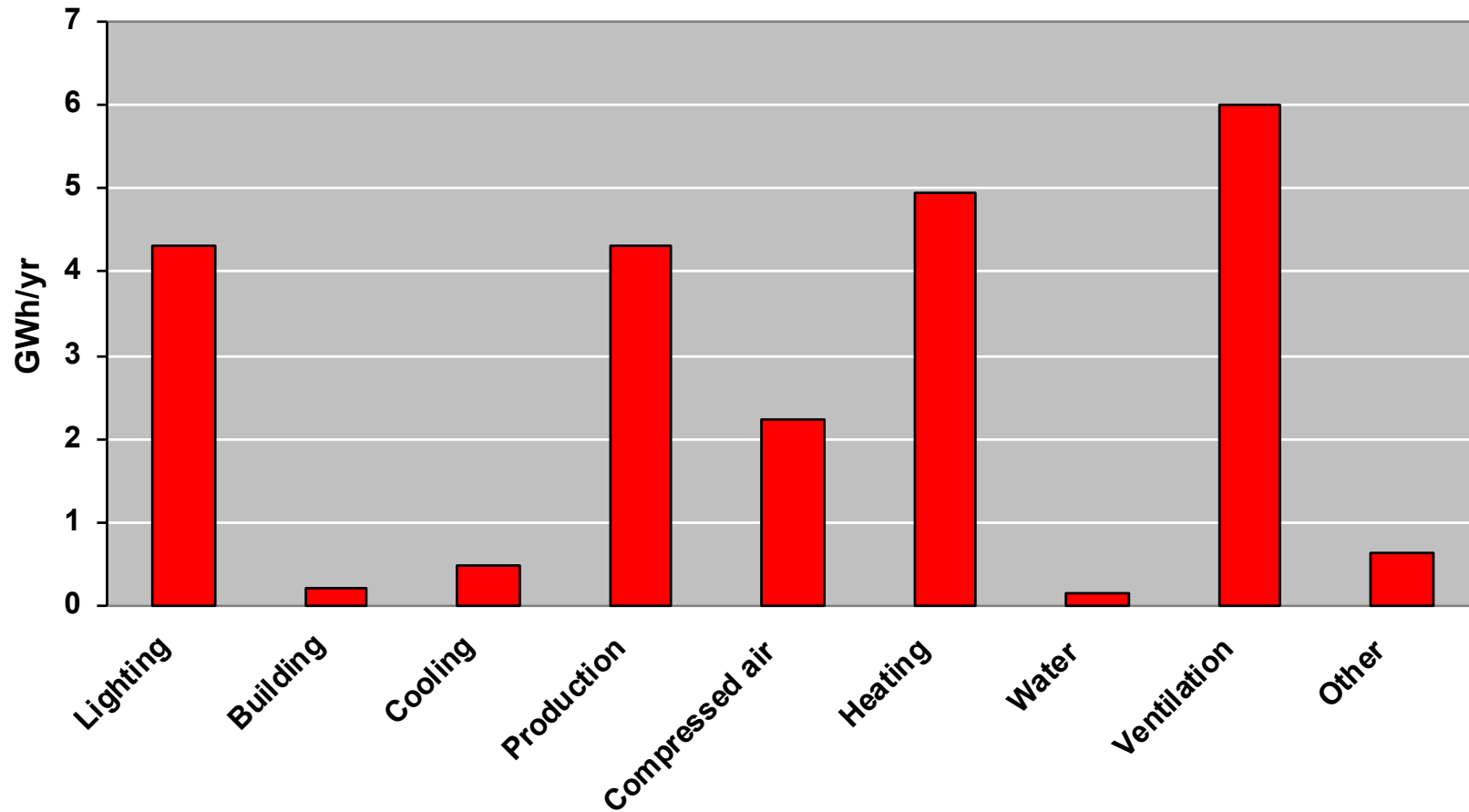
Results

Average electricity use

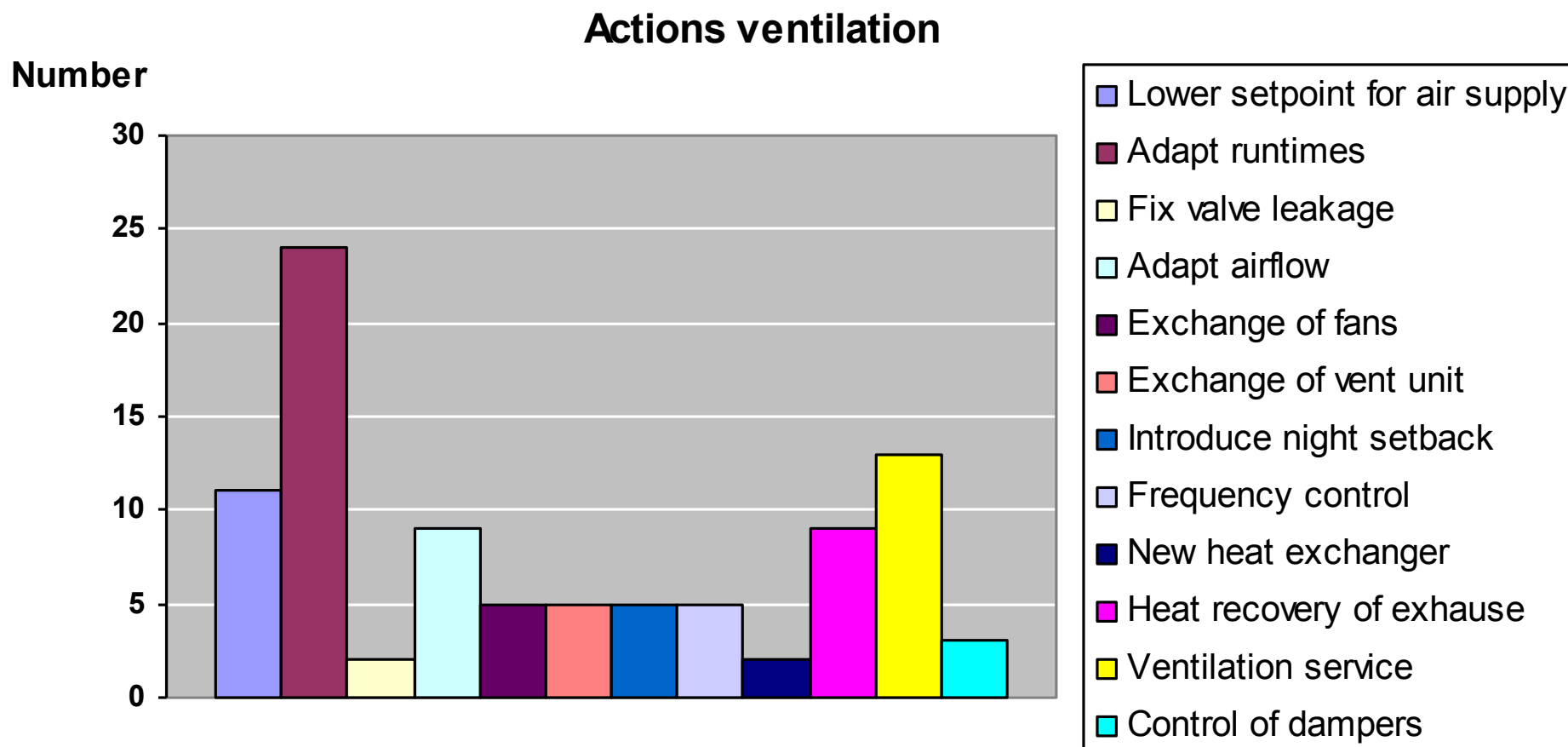


Results

Savings potential - operations



Ventilation



Lighting – proposed measures

- Exchange of lighting equipment
- Daylight and presence control etc.
- Adapt level of illumination
- Reduce voltage in artificial lighting
- Better placement of lamps



Compressed air

- Heat recovery of compressors
- Better design of size
- Frequency control
- Better control of leakage

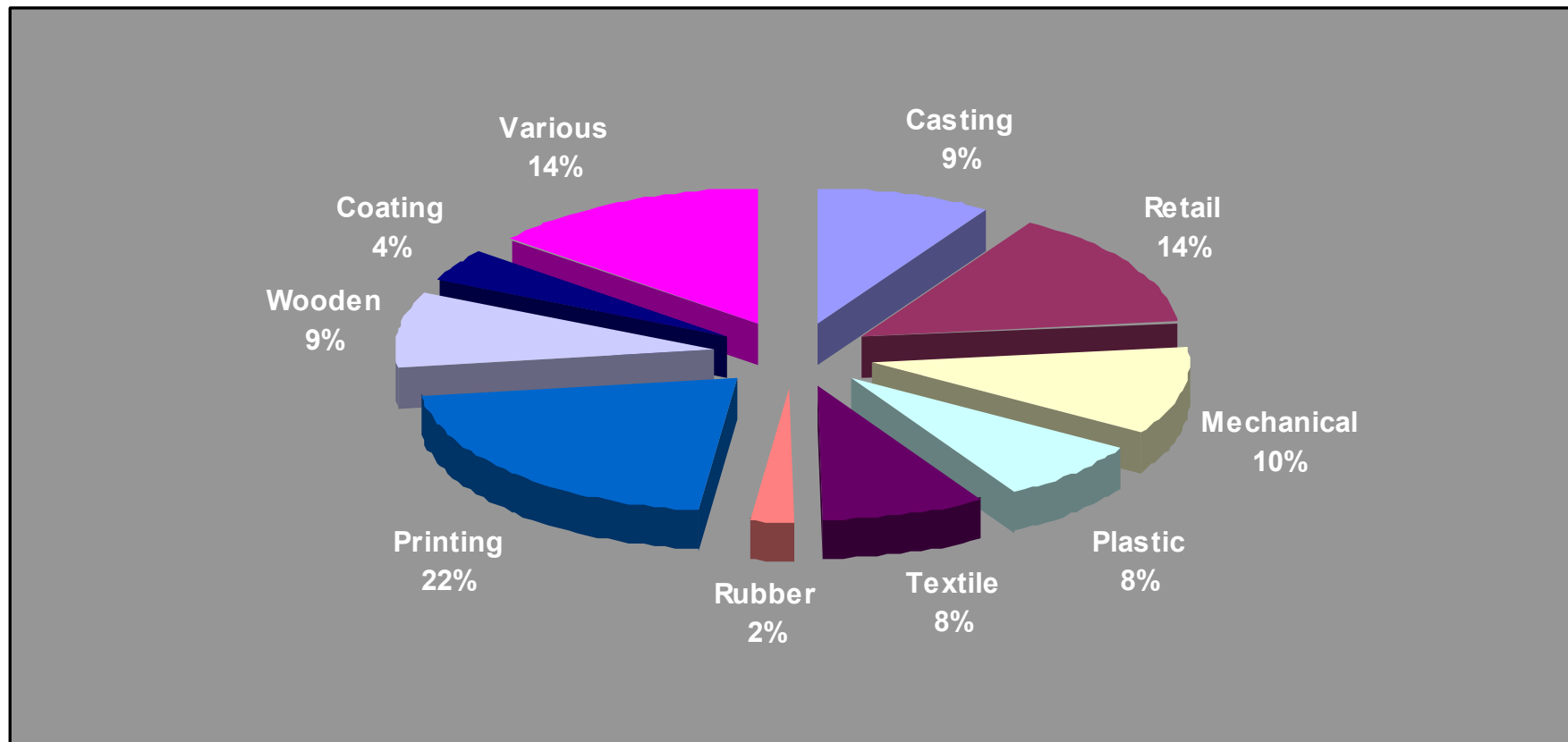


Heat – proposed measures

- Heat recovery of wastewater, cooling water, pretreatment basins etc.
 - Better control of temperature settings
 - Exchange of thermostats, warm water heaters
 - Lowering of room temperature
 - Demand control of peak load
-



Results



Shortcomings...

- Lack of energy management
- No manager appointed
- No documentation of energy performance
- No plan of actions
- No holistic view of measures to be implemented





Energy Eff – Networking for SMEs

Project for Energy Know-how in Mechanical
Industries



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Energy Eff - Networks for SMEs

To follow up and take hold of loose ends
Includes:

- Qualified help with measures
- Consultant-led meetings
- Exchange of experience through networking



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Project plan

- Identification/(audits) of areas for action
- Knowledge-building activities
- Real-time measurements of power
- Exchange of experience



Long lasting networks



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Thank you!

And don't hesitate to get in contact!

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