

REPUBLIC OF BULGARIA



MINISTRY OF ECONOMY, ENERGY AND TOURISM

## Practical implementation of sustainability criteria in Bulgaria

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**Energy efficiency and environmental protection Directorate**

# Main documents

**Directive 2009/28/EC on the promotion  
of the use of energy from renewable sources**

**National Renewable  
Energy Action Plan**

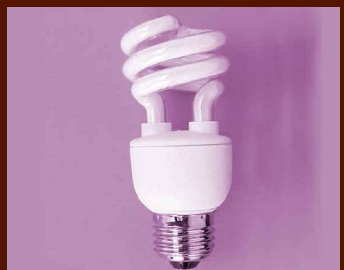
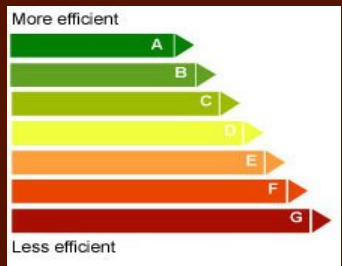
**Renewable energy Act**

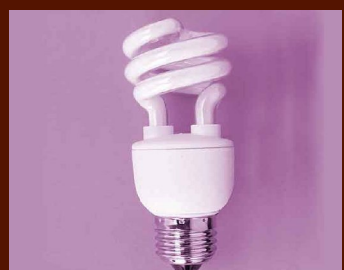
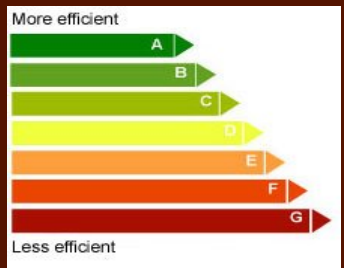
**Electricity**

**Heating &  
Cooling**

**Transport**

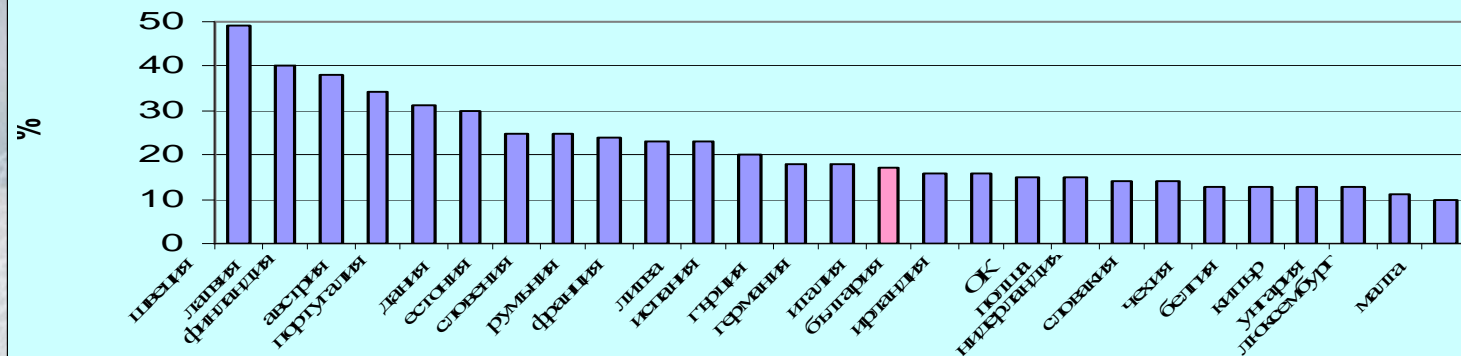
**Secondary  
legislation**





# National RES targets

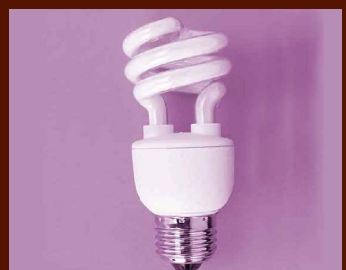
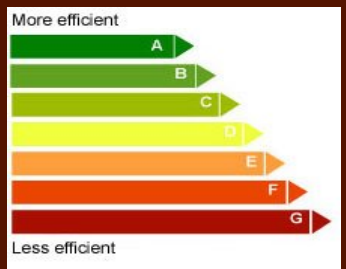
National targets in EU - 2020



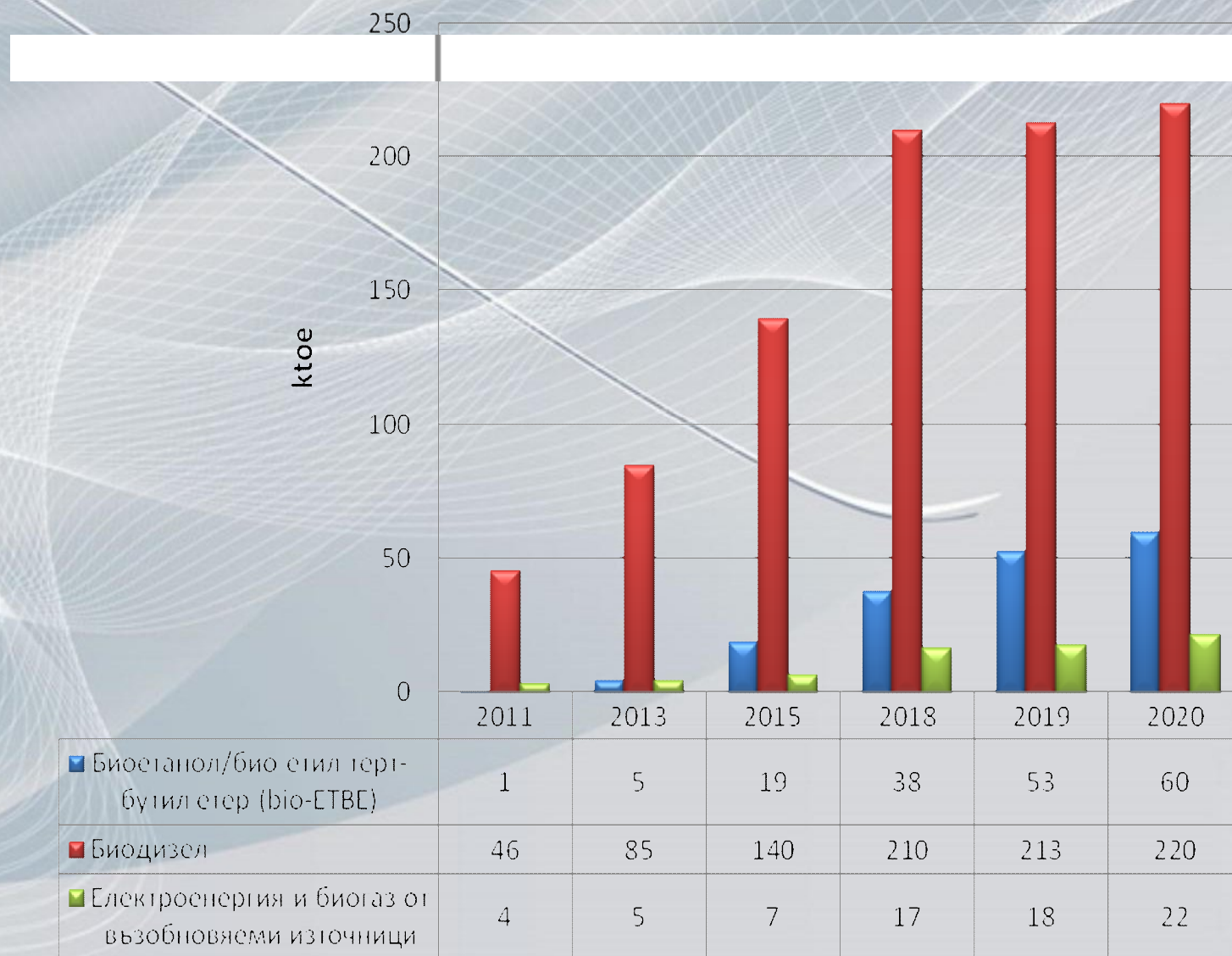
## National targets – 2020 (NAPRE)

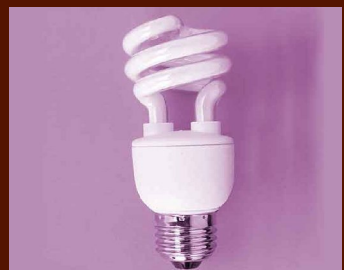
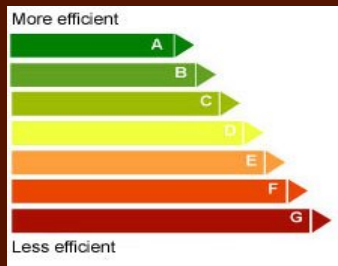
- 16 % share of RES of the final consumption of energy:
  - RE electricity 20.8%
  - RE heating and cooling 23.8%
  - RE in transport 10.8%





## Consumption of RE in transport (NAPRE)





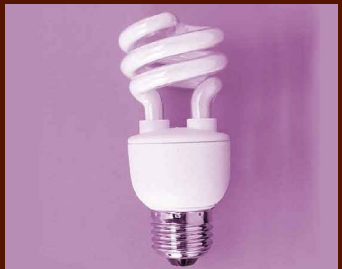
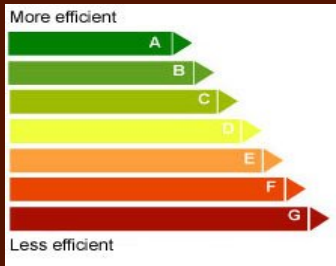
## Requirements for biofuels (RE Act)

- Proportion for blending fuel for diesel and petrol-fired engines with bio - fuels component:
  - **Biodiesel: gradually up to 6 vol % till June 2012**
  - **Bio-ethanol: gradually up to 9 vol % till march 2016**
- **SUSTAINABLE CRITERIA'S:**
  - **GHG emission saving**
  - raw material not be obtained from land with high biodiversity value
  - raw material not be obtained from land with high carbon stock
- System for mass balance
- Verification of compliance with the sustainability criteria for biofuels and bioliquids - independent auditing of information



# NEXT STEPS:

## Secondary legislation



### I. **Ordinance** (Ministry of Environment and Waters - 6 months after adoption of RE Act)

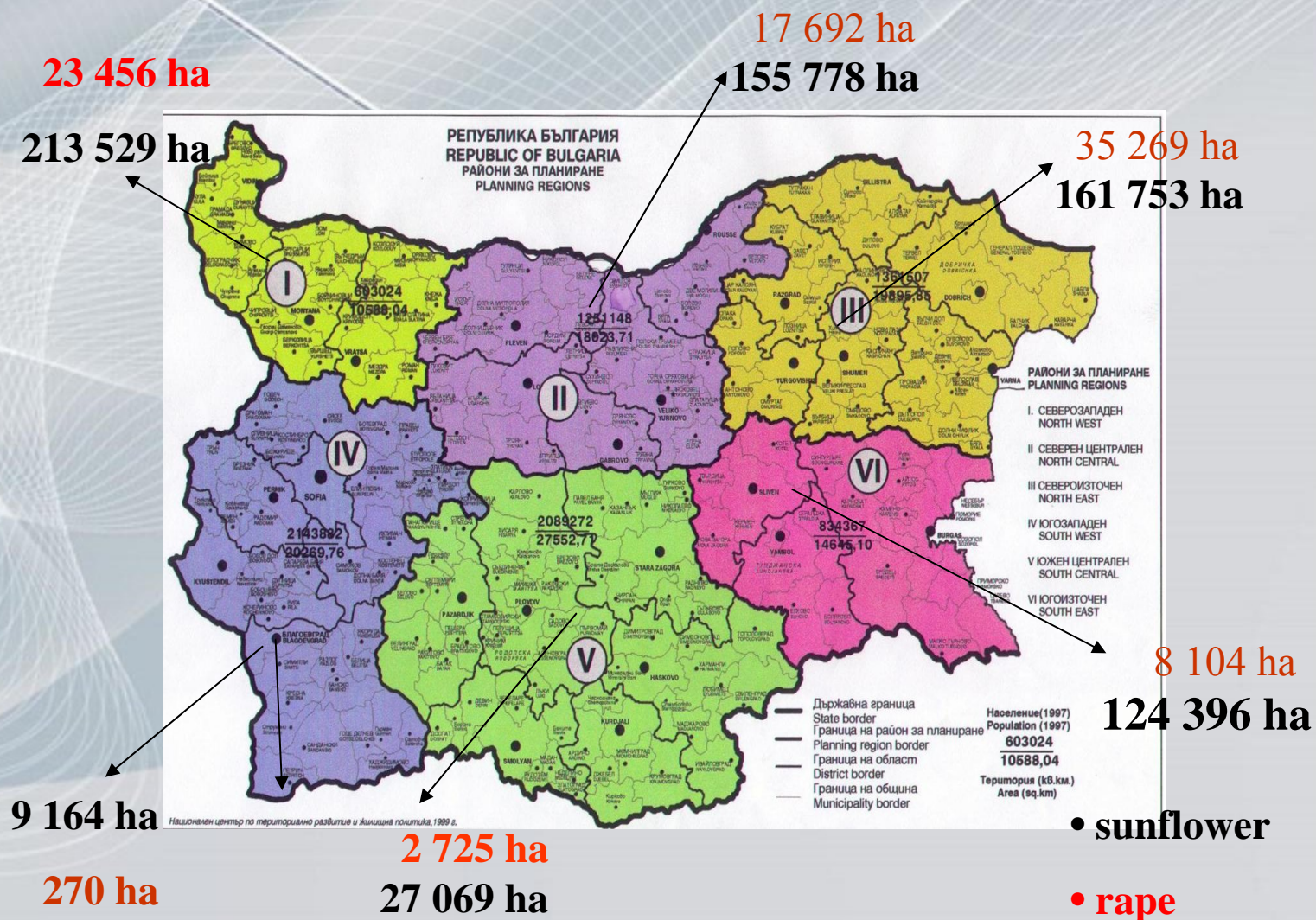
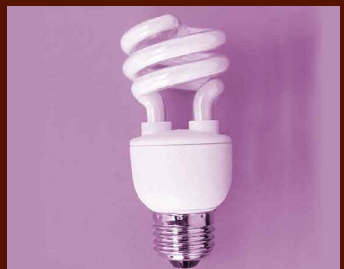
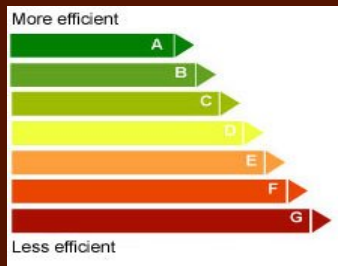
- ☀ Requirement and provision of information by economic operators, including measures taken to protect soil, water, air, etc.;
- ☀ Audit of compliance with SC;
- ☀ Certificates of conformity of raw materials, biofuels and liquid fuels from biomass SC and the contents of certificates.

### II. **Methodology for calculating the reduction of greenhouse gas emissions from the lifecycle of biofuels or fuels from biomass** (Minister of Environment in consultation with the Minister of Economy and Energy and Minister of Agriculture and Food – 1 month after adoption of RE Act)

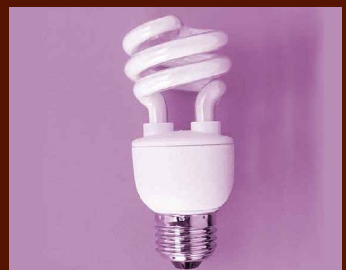
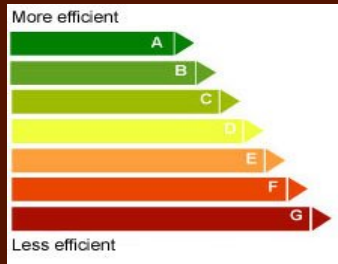


# Crops cultivation in NUTS 2

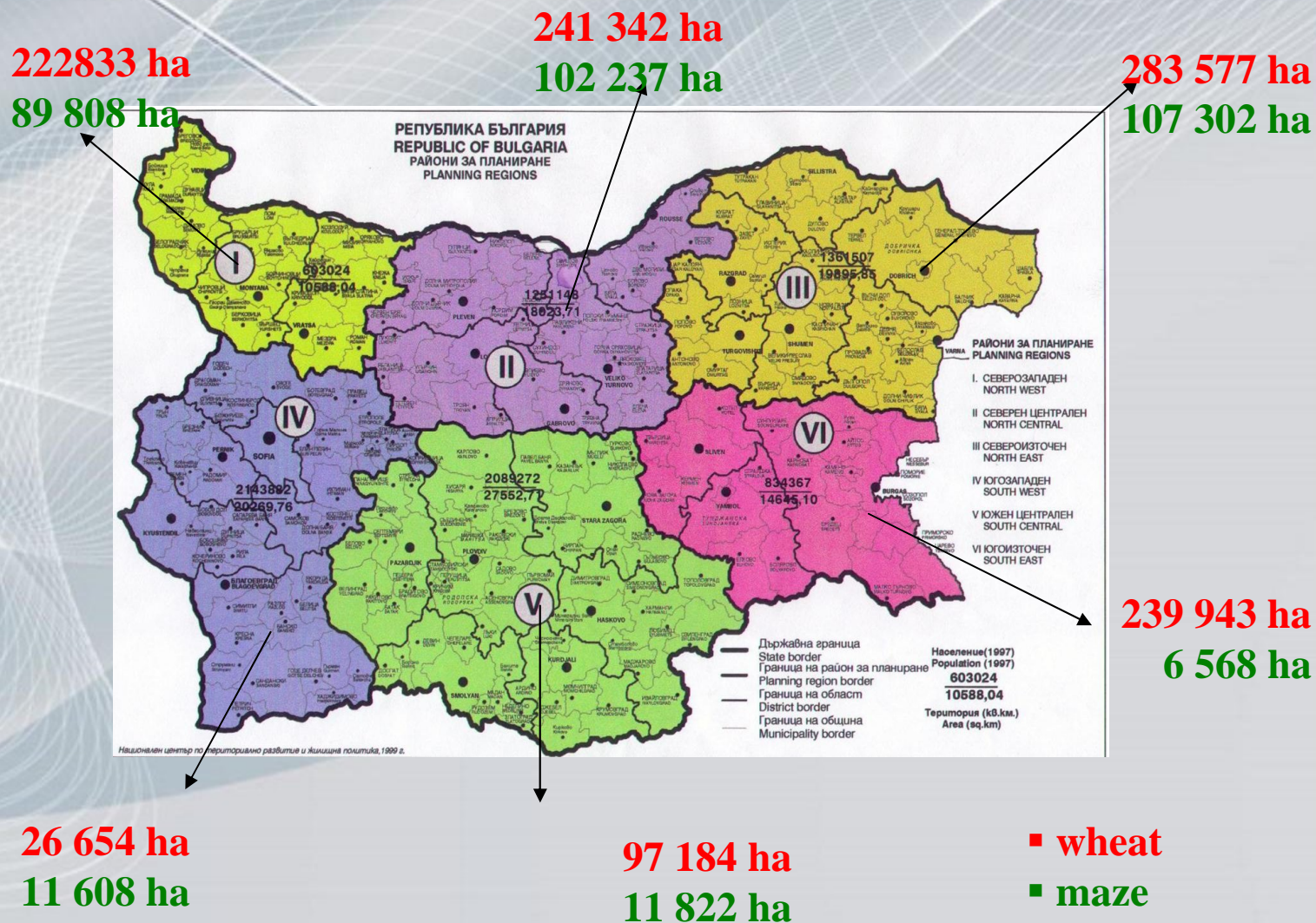
## Bio-diesel: sunflower and rape







# Crops cultivation– NUTS 2 Bioethanol: wheat and maize





## Results from calculations

- Report on GHG emissions from cultivation of agricultural raw materials for biofuel production – April 2010
- Preparation on additional information on Report

- Results:

- rape



default values

- sunflower



default values

- wheat

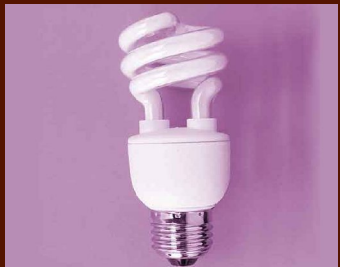
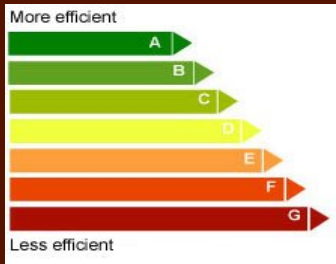


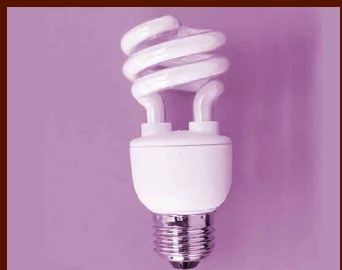
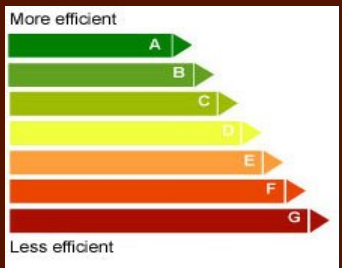
default values

- maize



default values





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Thank you for your attention!

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