

Poplars and the environment

Clean air



Better preserved forests

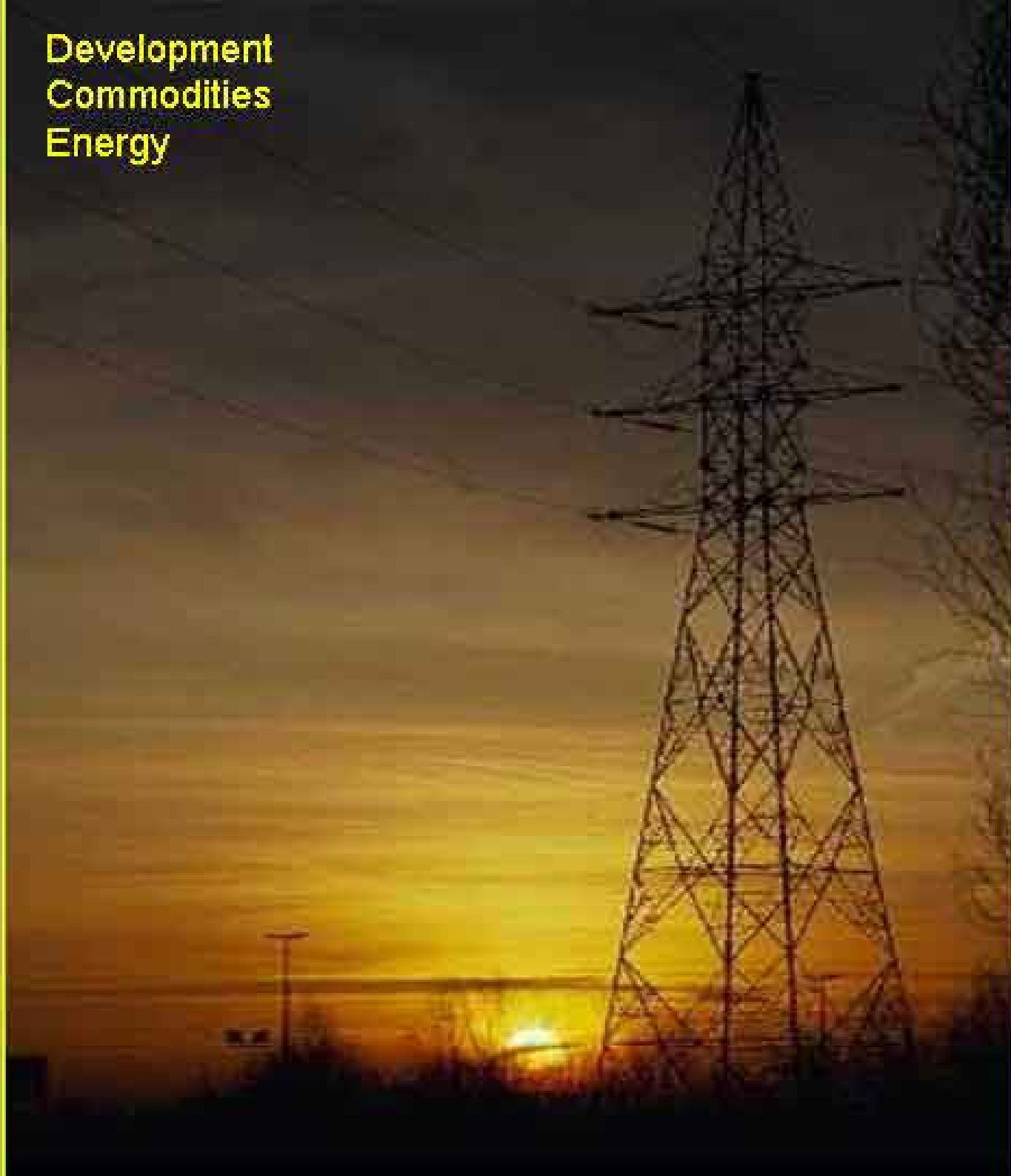


Woodlands for recreation

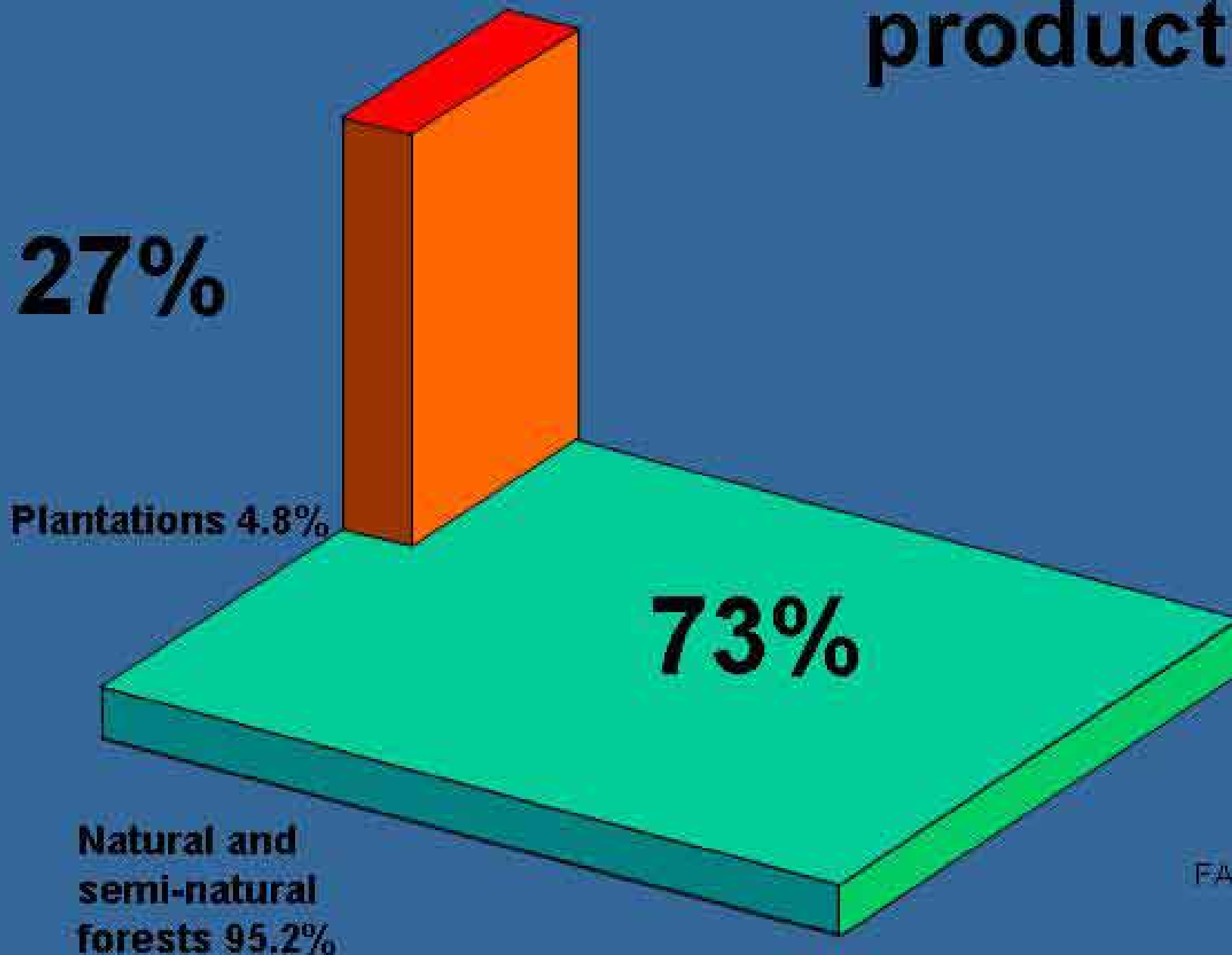


Aesthetic values

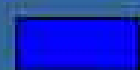
Development
Commodities
Energy



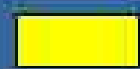
Industrial round wood production



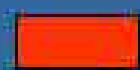
Forecasted wood production (including firewood) from forest plantations



1 – Re-planting after harvest

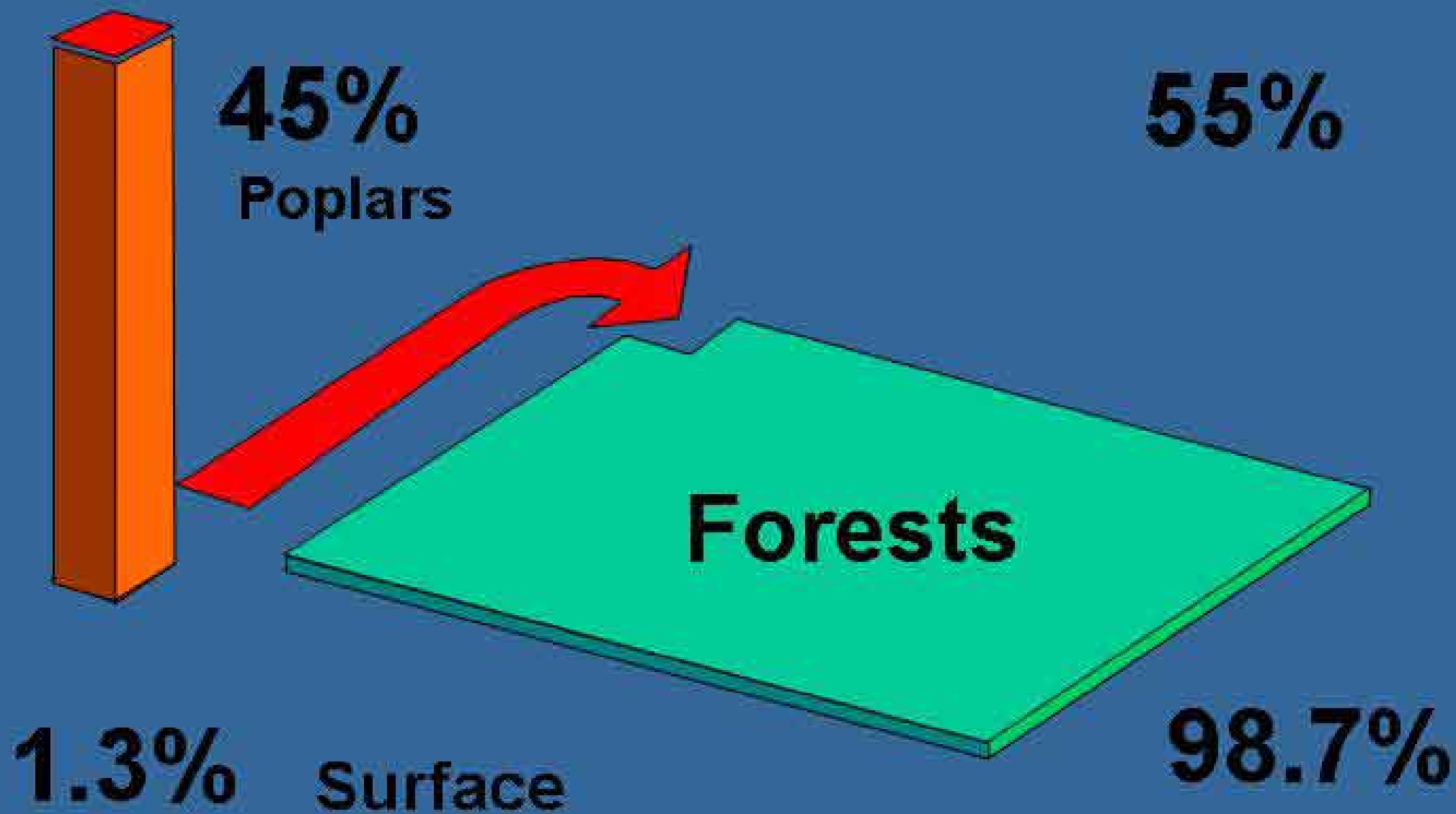


2 – Surface +1% per year and replanting of present areas



3 – Current surface increment for 10 years, then -20%/decade

Industrial round wood production in ITALY



Simplified ecosystems
Periodic disturbance
Genetically uniform
Even aged
Cultivated



Persistent cover
Less intensive cultivation
Little soil disturbance
Understorey
Transition ecosystems



Environmental roles

- Buffer zones
- Riparian zone protection
- Slope stabilisation
- Carbon sequestration
- Phytoremediation

Powerful root system







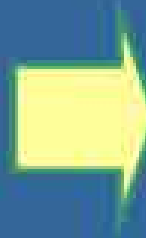
**Stocked in
living trees
(including
roots and soil)**



**Fossil fuel
substitution**



**Role of plantations in
combating carbon
enrichment of the
athmosphere**



**Replacement of
energy-intensive
products**



Short Rotation Coppice plantations





Treatment of dirty waters

Phytoremediation

Rehabilitation of areas with heavy metal accumulation

