

BIOMASA (1)

Máterial didáctico

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Virtual and Intensive Course
Developing Practical Skills
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1. CONOCIMIENTOS GENERALSE

Biomasa

- Desechos biodegradables procedentes de la agricultura, silvicultura y agricultura forestal relacionados con desechos de materias primas y restos de ramas de la industria, también desechos industriales y municipales degradables biológicamente.

World energy council (WEC) declared three objectives of energy supply:

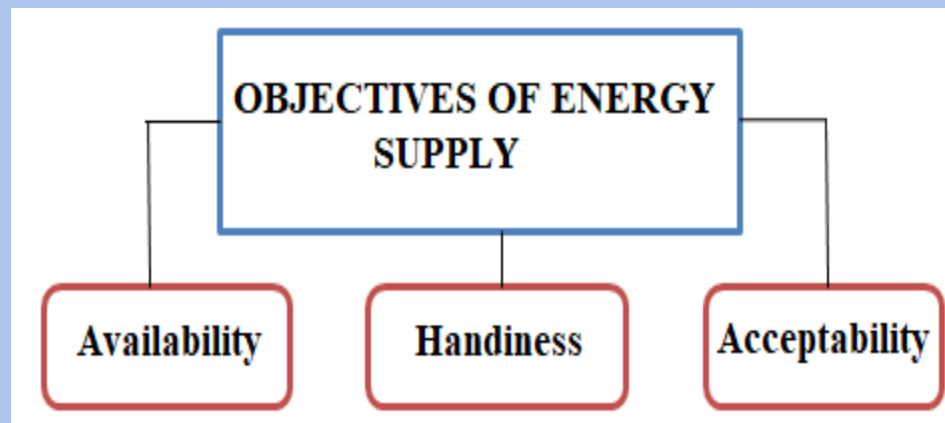


Fig. 1. Energy supply potential for WEC

*One of the most common types of renewable energy – **bioenergy**.*

- ***ENERGY** (in greek – action, operation) – total quantification of standart movement parameters of different forms of materials.*

- *Finite energy resources* – dug up or otherwise extracted resources from entrails of the earth:

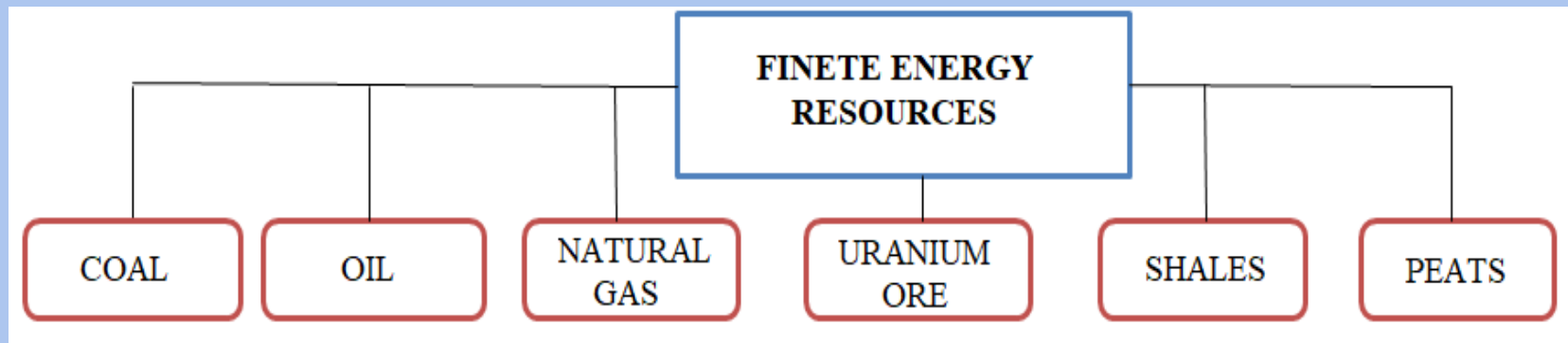


Fig. 2. Scheme of finite energy resources

- **RER** (**r**enewable **e**nergy **r**esources) – resources, which always renews or in short period of time and can be used unlimited long time:

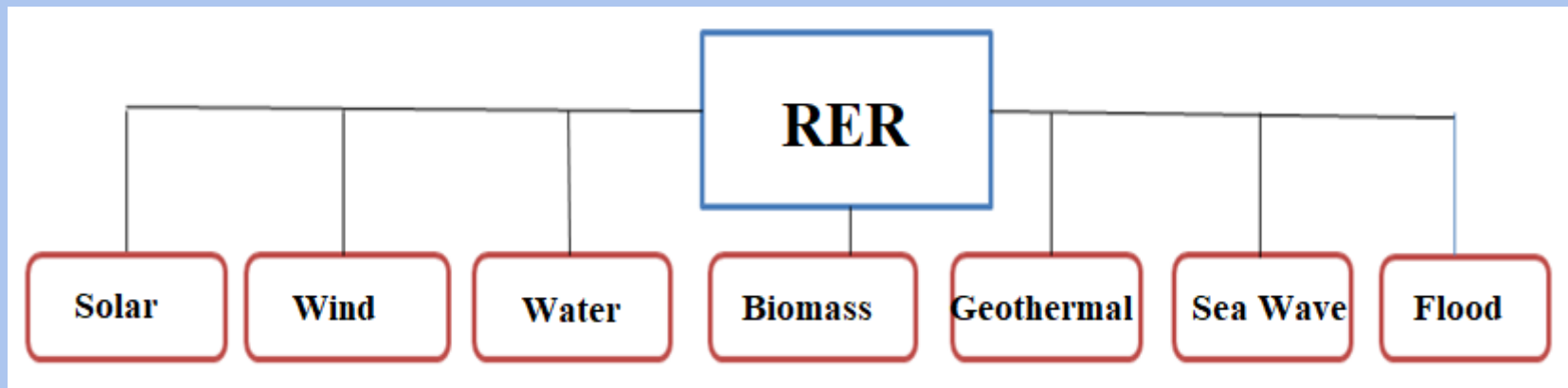


Fig. 3. Classification of RER

BIOMASS – organic non-fossil material of biological origin

PRIMARY BIOMASS – rapidly growing plant material, which can be used directly or after certain processing, for power

BIOGAS – mixture of methane and carbon dioxide is produced anaerobically by fermenting biomass

BIOFUEL – fuel, obtained as biomass processing product



References

1. *Biomasės panaudojimo galimybės energijos gamybai CŠT sektoriuje (The usage possibilities of biomass energy production in CHNB sector)*. Paruošė A. Jakštas. Vilnius, 2011.
2. Kytra, S. *Atsinaujinantys energijos šaltiniai (Renewable Energy Resources)*. Kaunas: Technologija, 2006.
3. *Lietuvos Respublikos Atsinaujinančių išteklių energetikos įstatymas (Republic of Lithuania Law Renewable Energy)*. 2011-05-26 No. 62-2936. Aktuali redakcija nuo 2016-03-0.
4. http://biokuras.lt/uploads/new_assigned_files/1.%20Egidijus%20Puida.%20Seksija%20B.pdf.
5. <http://www.agroakademija.lt/inzinerija/energetika/?SID=1183>
6. <http://energetikosabc.lt/lt/atsinaujinantys-istekliai/kokios-yra-biokuro-rusys/bidegalai/158>



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