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2nd All Things Energy Forum

Transition on a Bumpy Ride: Will Technology or Economics
...tion?

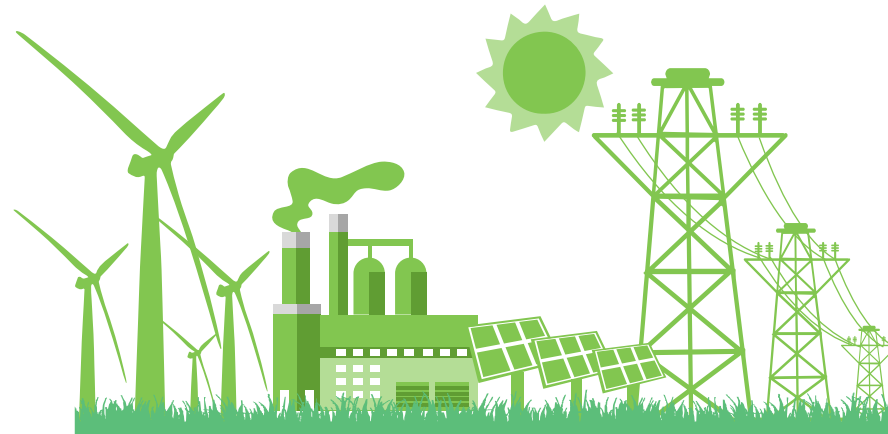
The view from North Macedonia on Recent Developments of the
Energy/Climate Crisis; National Policies

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Academy of Sciences & Arts, North Macedonia

Content

01 Introduction

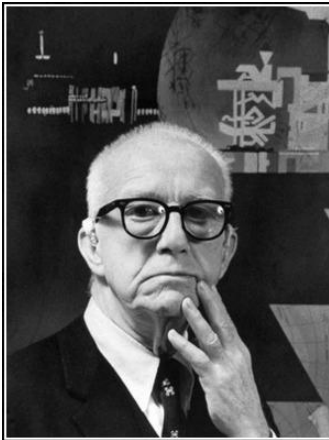
02 Problems and policies





Introduction

The view from North Macedonia on Recent Developments of the Energy/Climate Crisis; National Policies



There is no energy crisis, only a crisis of ignorance.

— R. Buckminster Fuller —

AZ QUOTES



Every crisis has both its dangers and its opportunities. Each can spell either salvation or doom.

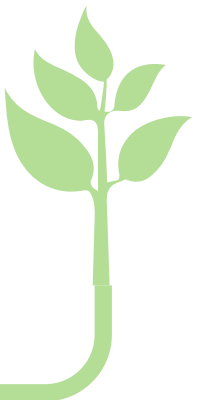
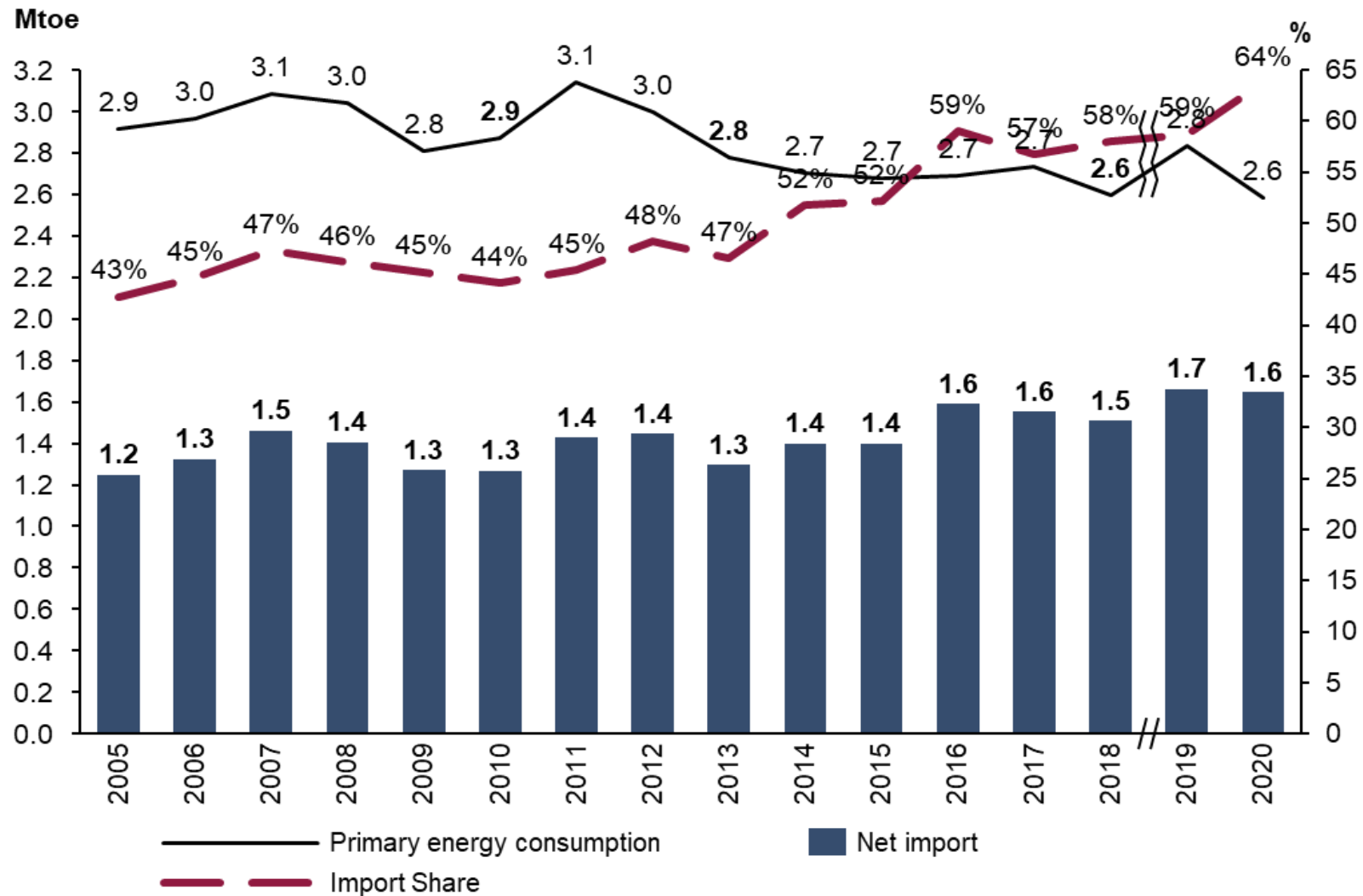
— Martin Luther King —

AZ QUOTES

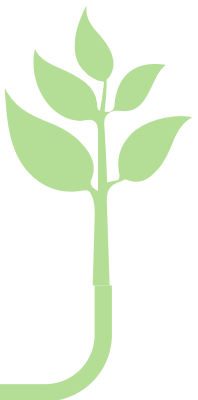
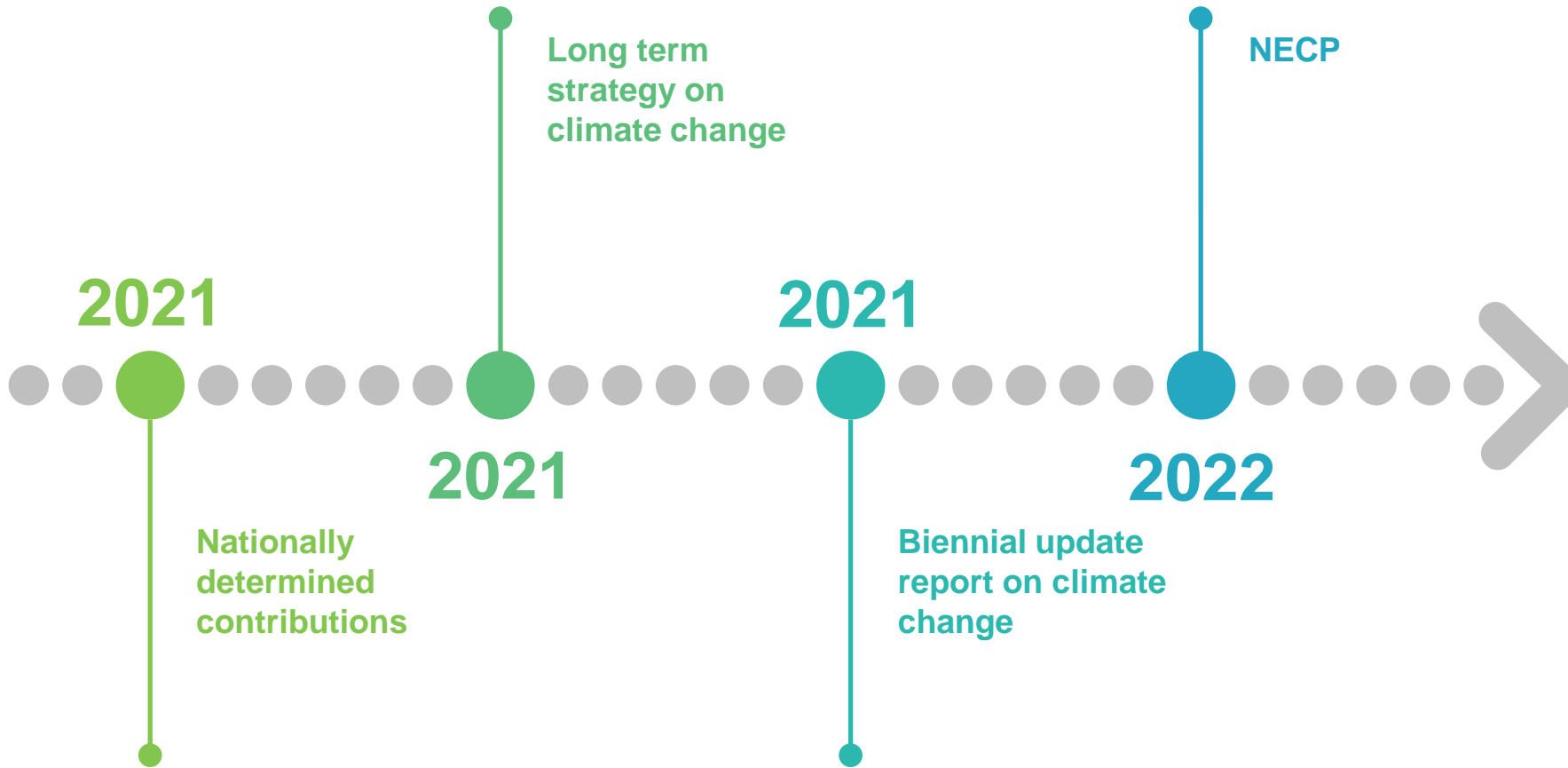
Quotes

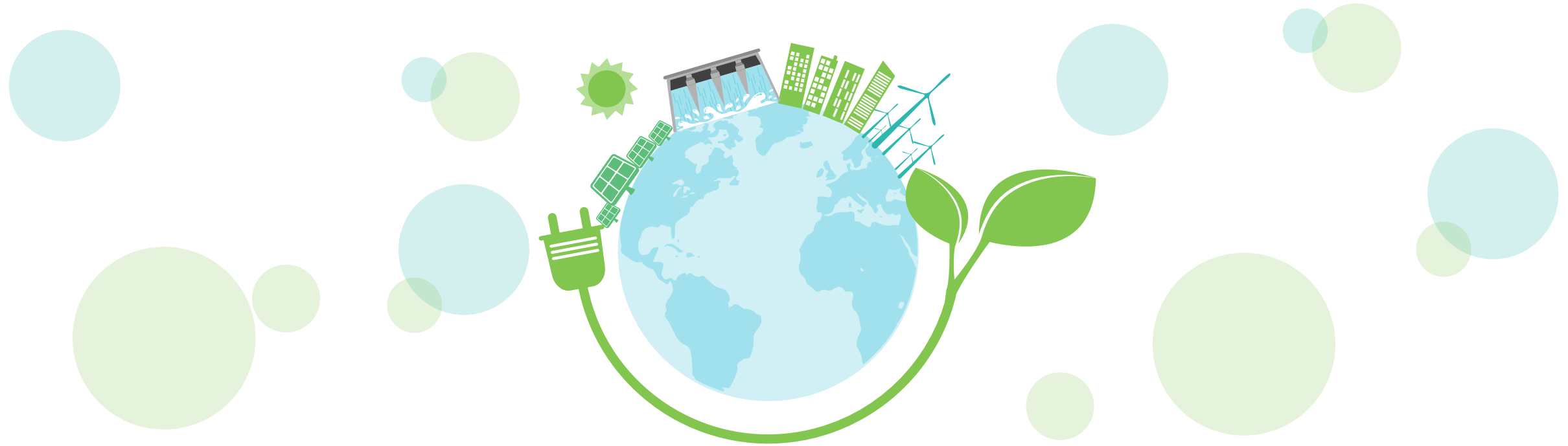


Import dependent country



Documents adopted

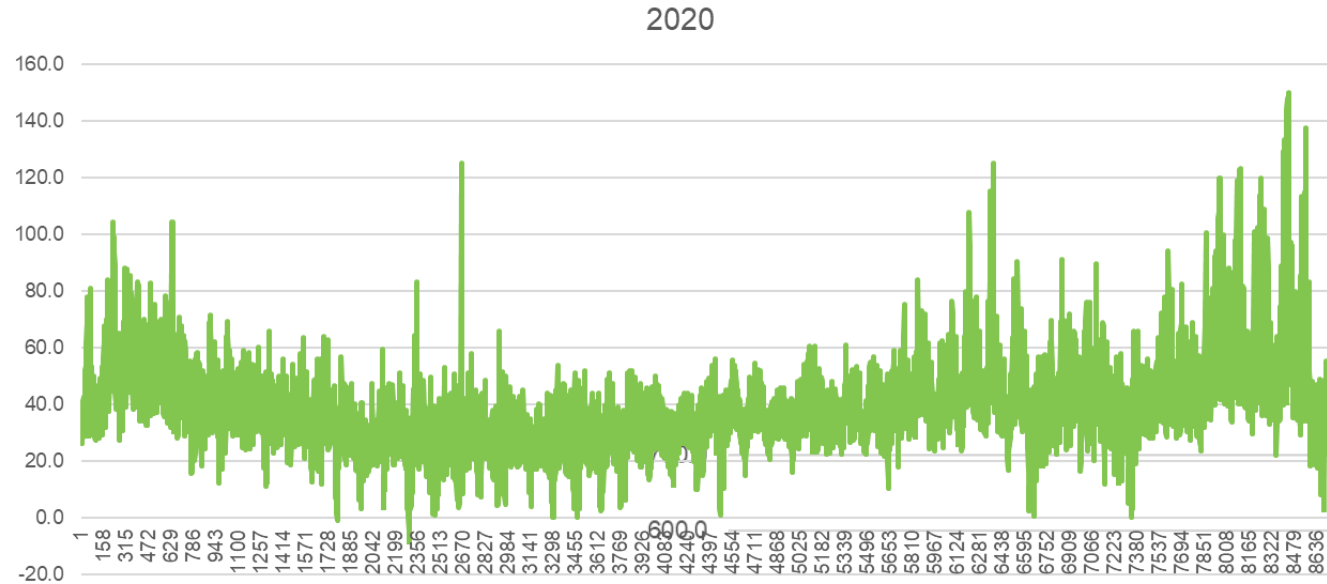




Problems and policies

The view from North Macedonia on Recent Developments of the Energy/Climate Crisis; National Policies

Electricity prices

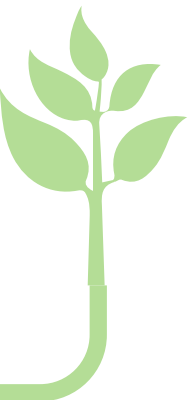
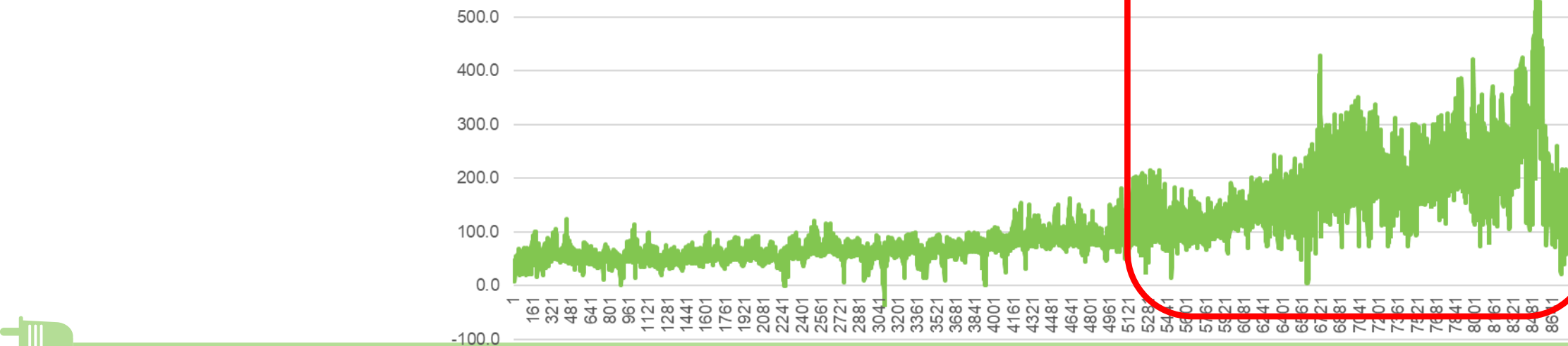


Average prices

- 2020 ~40 EUR/MWh
- 2021 ~115 EUR/MWh

2021

Energy for balancing used for supply
Termination of contract due to high prices



Domestic prices

Price of oil products 

Gasoline from 1.09 EUR/l 31.05.2021 to 1.7 EUR/l yesterday **56%**

Diesel from 0.97 EUR/l 31.05.2021 to 1.58 EUR/l yesterday **62%**

Electricity price – universal supplier

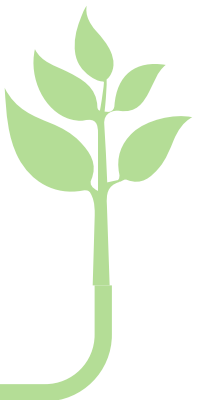
High tariff – 97 EUR/MWh

Low tariff – 49 EUR/MWh 2020-2021

24%

High tariff – 120 EUR/MWh

Low tariff – 60 EUR/MWh

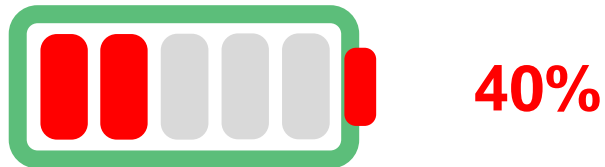


Problems

Domestic production very important in crises, but no big investments in the last 25-30 years

Depleting of coal mines

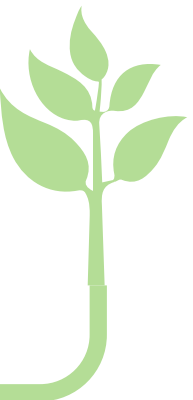
Bitola power plant production in 2011 ~4200 GWh – 2021 1860 GWh



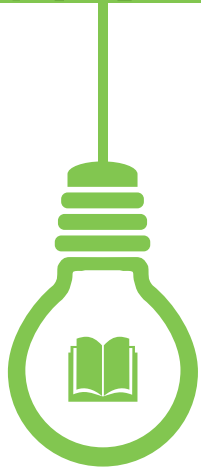
Oslomej 2011 ~580 GWh - 2021 ~213 GWh (decision for import of coal)

Low level of water storage in the hydro reservoirs

No energy for balancing



Policies



Overall need of the Universal supplier cover by domestic production at a price of 41 EUR/MWh



The costs for RES with FiT tariffs removed from the universal supplier
Double benefit (companies electricity at price of ~100 EUR/MWh)



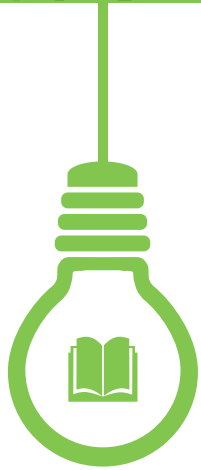
Direct subsidies for the biggest electricity producer in North Macedonia



Subsidies for district heating consumer in the capital city Skopje. CHP is forced to work and the electricity price was bought by ESM at a price of 170 EUR/MWh



Policies



Old HFO power plant was put into operation. More than 10 years out of the system. Production price of 170 EUR/MWh



Import of coal for Oslomej lignite power plant



New tender for construction of PV on private land with premium (80 MW)



New tariff system will be introduced. Three levels for the households which will depend from the consumption in High tariff.



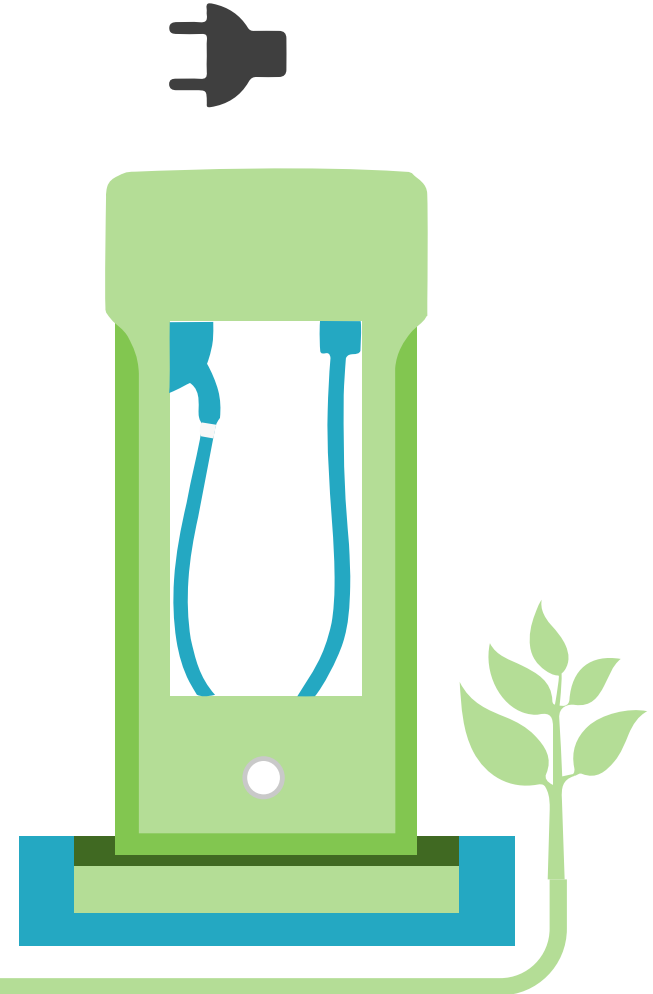
Policies

Electricity

- Law on energy in changing.
- Rulebook for RES in changing. More capacities for PV rooftop prosumers will be allow 6kW for households and 30 kW for companies, public entities, schools etc.

Oil products

- Energy regulatory commission - decides on prices on a daily basis not as it was on a weekly basis
- Access duty and VAT were reduced in the last three months



New installed capacity

2022 requests

>2000 MW

750 MW



Wind

1400 MW



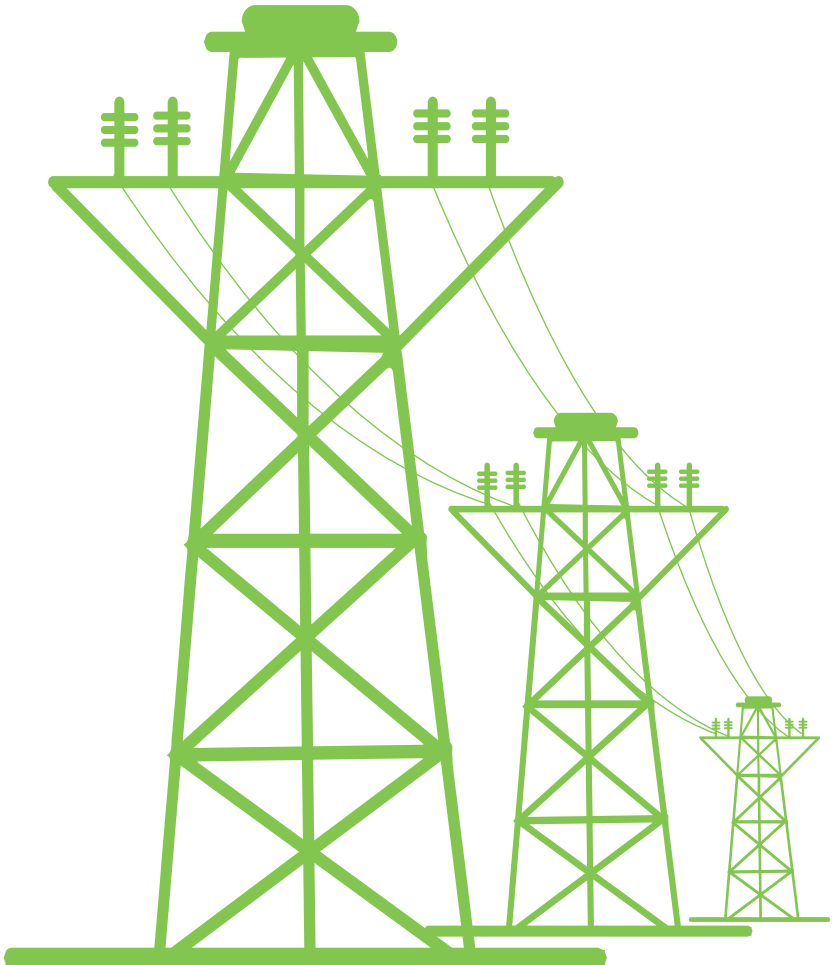
Solar

>2000 MW

Hydro pump storage



Hydro





Thank You

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