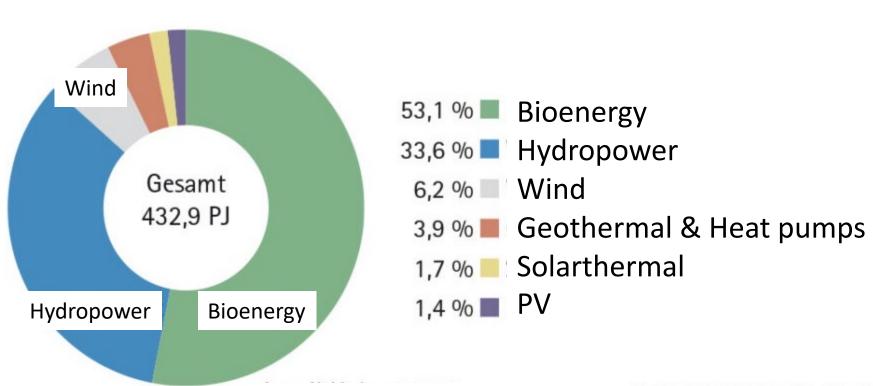


The contribution of bioenergy to energy security in Austria

Christian Rakos

Bioenergy plays a dominant role in renewable energy use in Austria

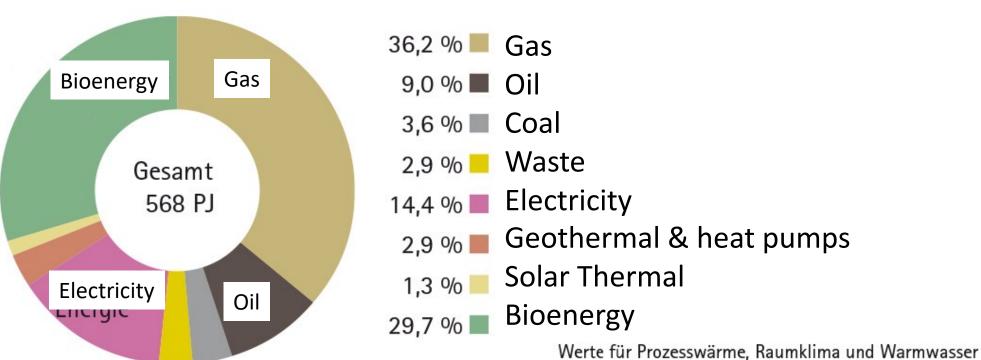




Quelle: Statistik Austria, Energiebilanz 2019

Heat supply in Austria

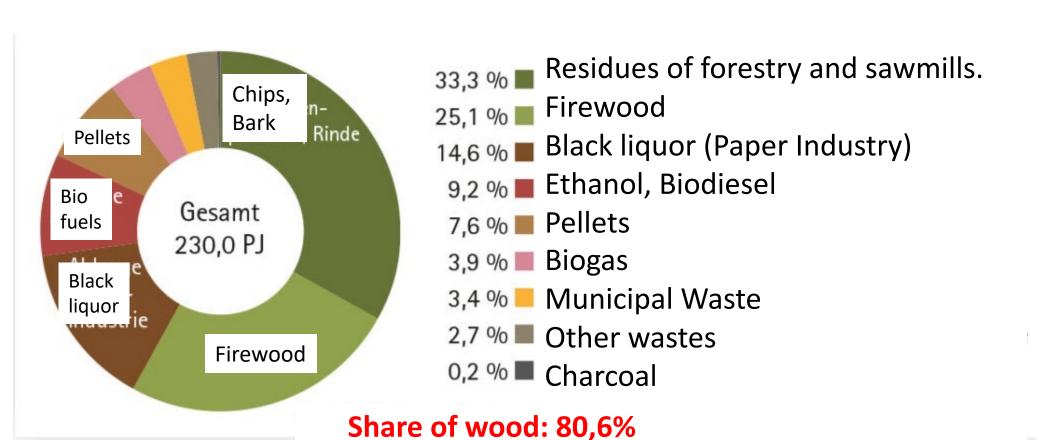




Quelle: Statistik Austria, Energiebilanz 2019 und Nutzenergieanalyse für Österreich 2019

Sources of bioenergy

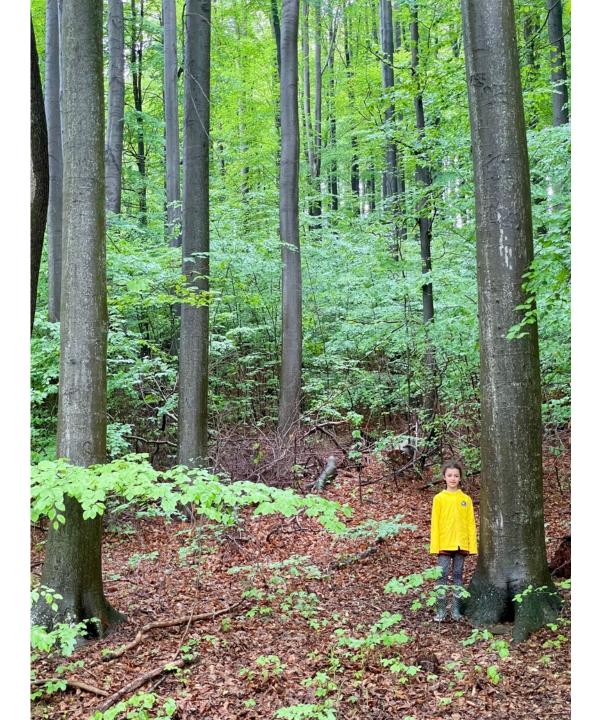








Natural regeneration: very large number of young trees





A mature forest after 100 years

Few large stems!

3 thinning operations are realized during this period to reduce the number of stems. This is necessary to secure forest health and stability. The resulting wood can only be used for energy

Quality wood and residues





Firewood





Production of chips





District heat using wood chips: 2500 villages supplied!





Pellet stove and pellet boiler

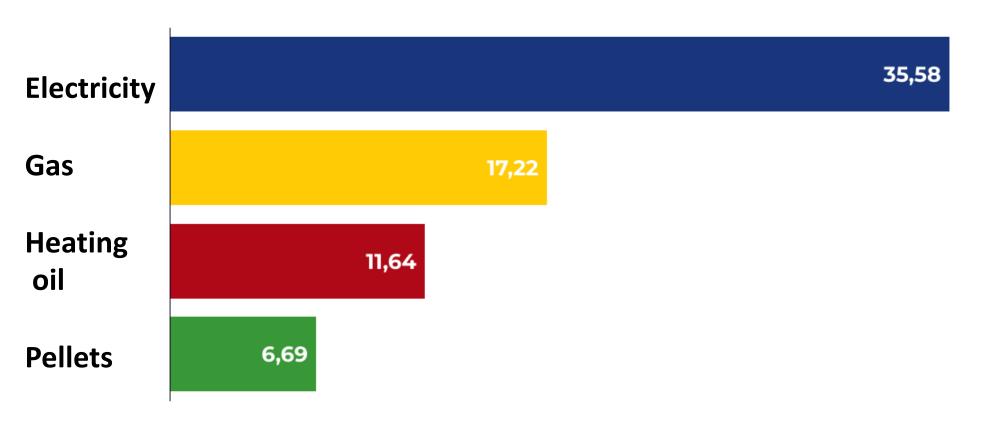






Comparison of costs (April 2023)





Conclusions



- The contribution of bioenergy to energy security is significant, especially for heat supply
- The crisis of gas supply has led to a boom of heating with wood fuels
- The boom has created problems of sharply rising prices and supply problems
- Currently insecurity is dominant among consumers sharp decline of investment