

Chaotic new times and a

Turbulent future!



**Chaotic times leading to
opportunities for the future**

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During the oil crisis in the 1970s, we in Sweden were 80 percent dependent on fossil energy....

Our dependence on oil had been built up in just a couple of decades after the second world-war

A look in the rearview mirror...


Europe and large parts of the World are currently in a similar process as Sweden was in the 1970s.

In recent decades, Europe has become increasingly dependent on Russian natural gas and oil.






I have seen some **main problems** to reach more use of biomass to European market, but also **new opportunities** for more bioenergy



Lack of understanding from environmental organizations



The EU Parliament wants to ban the use of logging residues for energy



REPowerEU aim to make the EU independent of Russian gas and increase



A wake-up call for many of us....

Today's crisis are a golden mode for more energy from biomass

- We must end dependence on fossil oil and gas asp
- Biomass is climate smart and a storable energy carrier, often produced locally
- A boost for the economy as more money stays in the region



**All fossil energy can be replaced
with bio-alternatives**



**Biodiesel
Biomethane
Ethanol etc**



**Firewood
Wood chips
Pellets etc**



Half of all homes and buildings in Sweden receive their heating from district heating and CHP-boilers....

63 % comes from biological material

Electrification requires rare earth metals....

Necessary for electric cars, special magnets, wind turbines, solar cells, mobile phones, computers, low energy lamps, batteries...

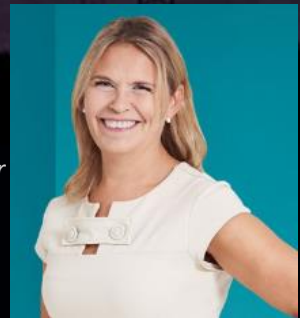
The EU imports more than 95 percent of its needs from China. Recycling of these metals' accounts for only a few percent of the need.

The earth metals cannot currently be replaced by other substances – **we are today completely dependent on China**



It is a fallacy to think that the expansion of renewable energy in all situations is only good. Renewable energy also comes with disadvantages, such as mining and other encroachments on nature

Camilla Sederholm,
Business manager for Nature and Environment



Do you guys trust **Xi Jinping**
more than **Vladimir Putin**?



*“It is better to burn biomass
in boilers than as wildfires
in the open”*

Biomass
provides **safe and**
locally produced energy
An important
source of security in
these troubled
times



Prioritize "multifunction"

- Use, for example, an air source heat pump in the summer when you have the best COP and supplement with wood or pellet heating when it gets colder
- All the electrical energy you can replace in winter is valuable for many other social functions
- Using electricity just to get 20 degrees warm is not currently the most optimal

It have become even more obvious how vulnerable our society has become...

- The war in Ukraine **shows how deeply dependent the countries** of the world are on each other
- Much of the world's fossil energy **comes from countries** where democratically elected regimes are absent
- Increased prices for gas and fuel also put pressure on the price of electricity, which in turn **drives up the price level of almost all goods**
- More locally produced goods and energy would contribute **to increased security** and make our society **less vulnerable**

Let today's crisis be a game changer

Say YES to more bioenergy!



**Local, safe, cost effective
and a renewable energy carrier**

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