# The role of DSOs in the transition to a renewable energy system









### **Transition driven by the climate issue**







Emissions must drop by 55 per cent by 2030 compared to 1990



27% renewable by 2030. Emissions must drop by 40 per cent by 2030



100% renewable by 2050



100% renewable by 2040. No net emissions 2045

#### Skellefteå Kraft

#### Going towards a 100 % renewable energy in Europe





85 % RES in 2017

Source: WindEurope





Source: Bloomberg New Energy Finance Note: Price in real 2016 dollars

Bloomberg 💵





### The base power currently comes from nuclear power and hydroelectric power





## When nuclear power is phased out we will need energy stores





### **Tudor Constantinescu made a key statement**





### The role of DSOs in the transition













### **Controlroom of the City- Mälarenergi**



### **Development of electricity buses in the world**



🔳 Kina 📕 Europa 📕 USA

