Flexible nuclear power & ancillary services

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Flexible nuclear

It’s just a matter of design really
The System Challenged on Several Fronts

- Power
- Quality
- Capacity
All Time High for Ancillary Services in 2018

- FCR market size (mSEK)
- Annual GT starts
- Down regulation O3
- Reactive power O3
High Quality Electricity Demand Increasing
Current Market Model Doesn’t Support System Function

Yesterday’s market
- Investments based on expected energy price

Today’s market
- Investments based on subsidies for renewable production

Future market
- Increased value for existing system services and new markets
- Increased capacity payments
- Increased value of flexibility raises the value of intraday and balance markets
- Over-supply correction contributes to some increase in the energy price

Future market benefits:
- Capacity
- Flexibility
- Ancillary services
Conclusions

• The electricity system is seriously challenged at several fronts simultaneously

• Nuclear power plays a critical role for system adequacy and stability

• Market development for ancillary services should speed up

• Create incentives to utilize existing resources and add new ones according to the power system’s needs