

# **Asset Optimisation and Trading**

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# Today's focus

- Organisation and key figures
- AOT comprises four business activities
- AOT's role within Vattenfall
- Hedge strategy process
- Hedge position
- Market development and outlook



## Organisation and key figures





## **AOT** comprises four main business activities





## **AOT's role within Vattenfall**





## Introducing new hedge strategy

#### Old hedge reference environment

- primary focus on production plans and how the volumes should be hedged from a Business Unit perspective
- financial aspects only implicitly represented

#### New hedge strategy process

- financial aspects explicitly incorporated when deciding the hedge strategy
- focus is derived from an overall Group perspective whilst taking national level requirements into account

# Identify hedge objectives

Set guiding thresholds

Analyse/decide hedge strategy Implement and review



# Hedge ratios



% hedged of forecasted electricity generation, 30 June 2011



## Market development and outlook

- Oversupply situation in Northern Europe
- Risk of market splitting and lower liquidity
  - E.g. the Swedish market will be split into 4 price areas 1 November 2011
  - Liquidity constraints on some local power and gas markets e.g. Netherlands, UK and Spain
- Post-Fukushima changes in German and Swiss physical market
  - Will Germany become a net importer?
  - Grid constrains
- Increased and changed regulation
  - Proposed financial regulation by the EU on e.g. transparency, market integrity, capital requirements, MiFID and mandatory clearing





# Changes in the Nordic system price are highly correlated with changes in hydrological balance





#### Marginal cost of coal acts as support to the Nordic system price - except hydrological balance is very positive





## German off-peak prices provide additional support - except hydrological balance is very positive





### The Nordic system price is most of the time below the German peak - except hydro balance is extremely strained in winter\*



\*in combination with low nuclear availability, low temperature and precipitation.



### The German moratorium triggered a big trade balance swing

#### Import/Export Balance Germany (7day moving average)



<sup>14 |</sup> Capital Markets Day, Stockholm | 21 September 2011



#### France contributed the most with a shift of >4,000 MW



#### Import/Export Balance Germany-France (7day moving average)



## Highest nuclear production in France since years facilitates high exports

Nuclear Production France



VATTENFALL 叁

#### Higher wind production in Germany gives relief to imports



### Wind and solar complement one another in the peak





Asset backed Trading	Trades with an underlying natural exposure from a trading asset
Proprietary Trading	Trades with no underlying natural exposure
Origination	Trading of highly non-standardised contracts, often with multi-commodity components. Origination also incorporates Portfolio Management services, mainly executing more or less standardised transactions

