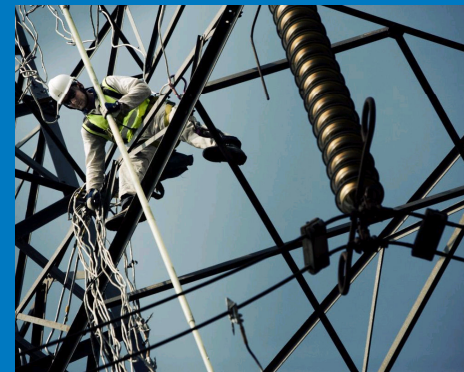


RIIO|T1

# Electricity SO Incentives Overview



June 2012

## Framework Overview (1)

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- Our System Operator (SO) incentives proposals for the RIIO-T1 period were submitted to Ofgem on 31 May 2012
- We propose an 8 year incentive framework
  - Proposals focused on outputs that are:  
**Understandable**      **Forecastable**      **Controllable**
  - Stakeholder views have been considered
  - Underpinned by the current scheme (ex ante / ex post) methodology
  - Combination of cost and financial incentives
  - Aligning SO and all Transmission Owner (TO) incentives
  - Incentives operate annually

## Framework Overview (2)

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- Retains Caps, Collars and Income Adjusting Events (IAE)
- Specified Uncertainty Mechanisms for game changers
- Flexibility to accommodate new incentives in the future

Cost incentives	Financial incentives
Balancing Services Incentive Scheme: Energy Components, Constraints and Black Start	Transmission Losses
	Renewable Generation Forecasting
	Customer & Stakeholder Satisfaction

# Incentive Principles

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- Based on the principles set out in Ofgem's principles consultation document published in January 2012. These fall within three main areas:

## Value

- Promote innovation and delivery of consumer benefit
- Focus incentives on those areas that we can forecast and control as NETSO

## Scheme Design

- Parameters proposed to balance risk and reward to consumers and us
- Length of schemes according to level of uncertainty and confidence in target models and data

## Risk and Uncertainty

- Uncertainty mechanisms to account for significant changes to operating environment and reduce scope for windfall gains and losses
- Managing risk on behalf of consumers

## Challenges in the RII0-T1 Period

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- Decarbonisation of the UK
  - Overarching challenge for the whole industry
  - Plant closure due to the European Large Combustion Plant Directive
- Constrained network
  - Significant construction and reinforcement works
- Changeability
  - Increasing volumes of embedded and micro generation
  - Greater demand volatility e.g. adoption of electric cars and use of Demand Side Response (DSR)
- Regulatory change
  - Electricity Market Reform (EMR)
  - Increasing EU harmonisation and interconnection

## Innovation

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- Innovation is a key challenge for the whole industry
- We will need to adapt and innovate during RIIO-T1 period to facilitate:
  - UK Government carbon targets; and
  - To meet our stakeholders requirements.

## Funding

- Innovation fund is as stated in our RIIO-T1 TO Business plan - Innovation Strategy, March 2012
  - maximum 1% of revenue under the Network Innovation Allowance (NIA)

# Incentive Scheme Proposals (1)

## Balancing Services Incentive Scheme (BSIS)

Incentive	Scheme Parameters			
Balancing Services Incentive Scheme (BSIS)	Length (years)	Scheme Phase Dates	Annual cap / collar	Annual Sharing Factor
	2	Apr '13 – Mar '15	± £30m	30%
	2	Apr '15 – Mar '17	± £40m	40%
	4	Apr '17 – Mar '21	± £50m	50%

- Comprises Energy, Constraints, Black Start and Transmission Losses components
- Annual parameters reflect growing confidence in models and data
- Alignment with TO achieved in second half of RIIO-T1 period
- Mid-phase processes to review models and parameters

# Incentive Scheme Proposals (2)

## BSIS: Energy and Constraints

- Operational experience of the current scheme (2011-13) coupled with the transition to longer term schemes has led to the review of:

### *Ex ante / Ex post methodology*

- 1) Re-examined cost drivers and reviewed methodology
- 2) A small proportion of inputs reassessed as ex post to reflect our ability to control or forecast the driver

### *Cost target models*

- 1) Models reviewed and subject to ongoing development
- 2) Known modelling issues rectified
- 3) Review of frequency of inputs
- 4) Proposed annual model 'health check'

### *Constraint cost components*

- 1) Constraint discount factor (41%) amended to an uplift factor of 1.33
- 2) Proposal to contractually incentivise relevant non-NGET TOs to reduce constraints



## Incentive Scheme Proposals (3)

### BSIS: Black Start

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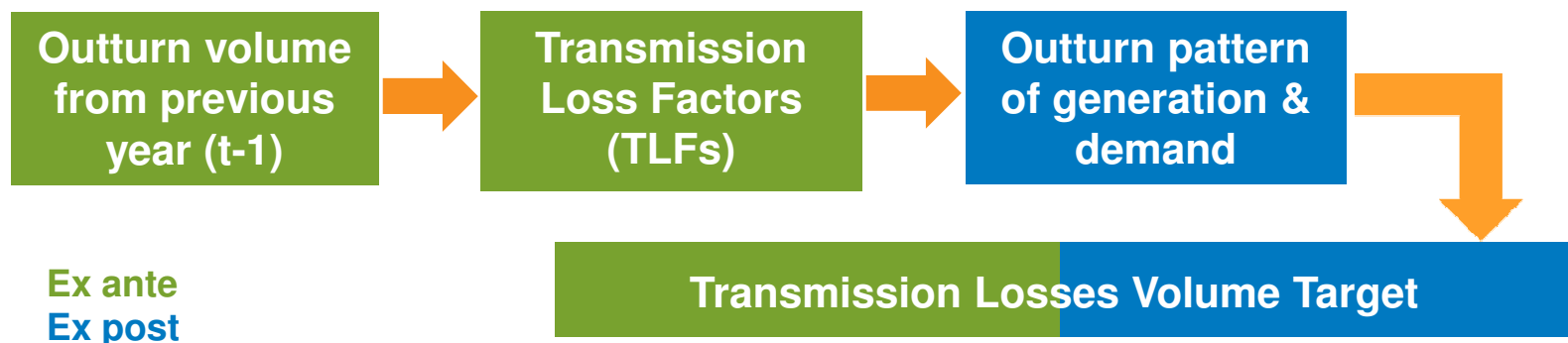
- Annualised cost target comprising both ex ante and ex post elements to reflect our ability to control and / or forecast costs
- Cost target derived from a number of assumptions for both existing and new Black Start station costs, including:
  - New and existing provider availability fees / capital costs
  - Feasibility studies for new providers
  - Warming
  - Testing
- Subject to overarching BSIS parameters

# Incentive Scheme Proposals (4)

## BSIS: Transmission Losses

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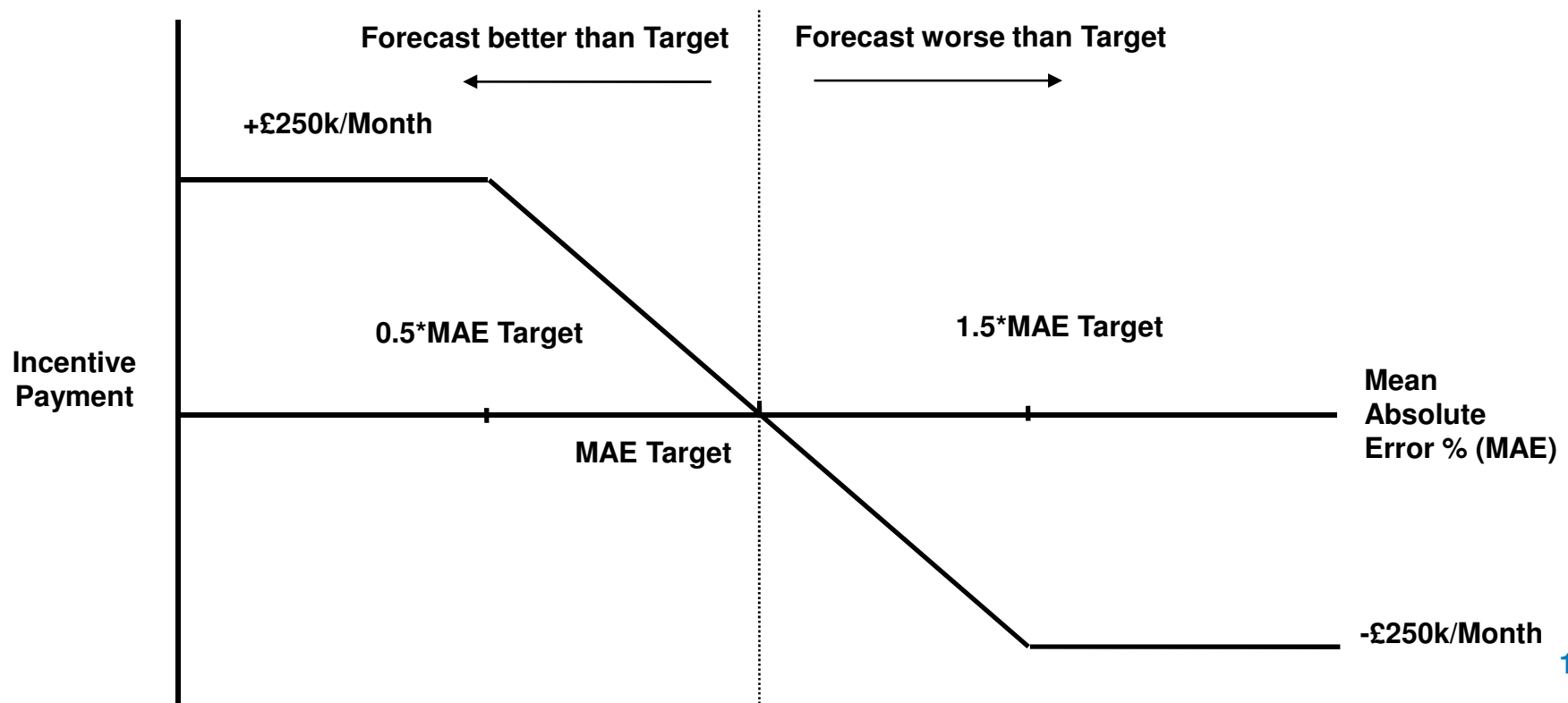
- Volume target comprises both ex ante and ex post elements to reflect our ability to control and / or forecast losses
- Ex ante target based on previous year outturn which is adjusted using:
  - Transmission Loss Factors; and
  - Outturn generation and demand patterns
- Subject to 20% sharing factor in addition to overarching BSIS parameters



# Incentive Scheme Proposals (5)

## Renewable Generation Forecasting

- A new financial incentive to reduce day ahead wind forecasting error
- Cap / collar  $\pm$  £250k per month, 4+4 year incentive with review after the first 4 year period



# Incentive Scheme Proposals (6)

## Customer & Stakeholder Satisfaction

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- RIIO-T1 TO incentive proposal to include:
  - Customer satisfaction survey to drive incentive worth +/- 1% revenue
  - Maximum 0.5% revenue as a discretionary reward

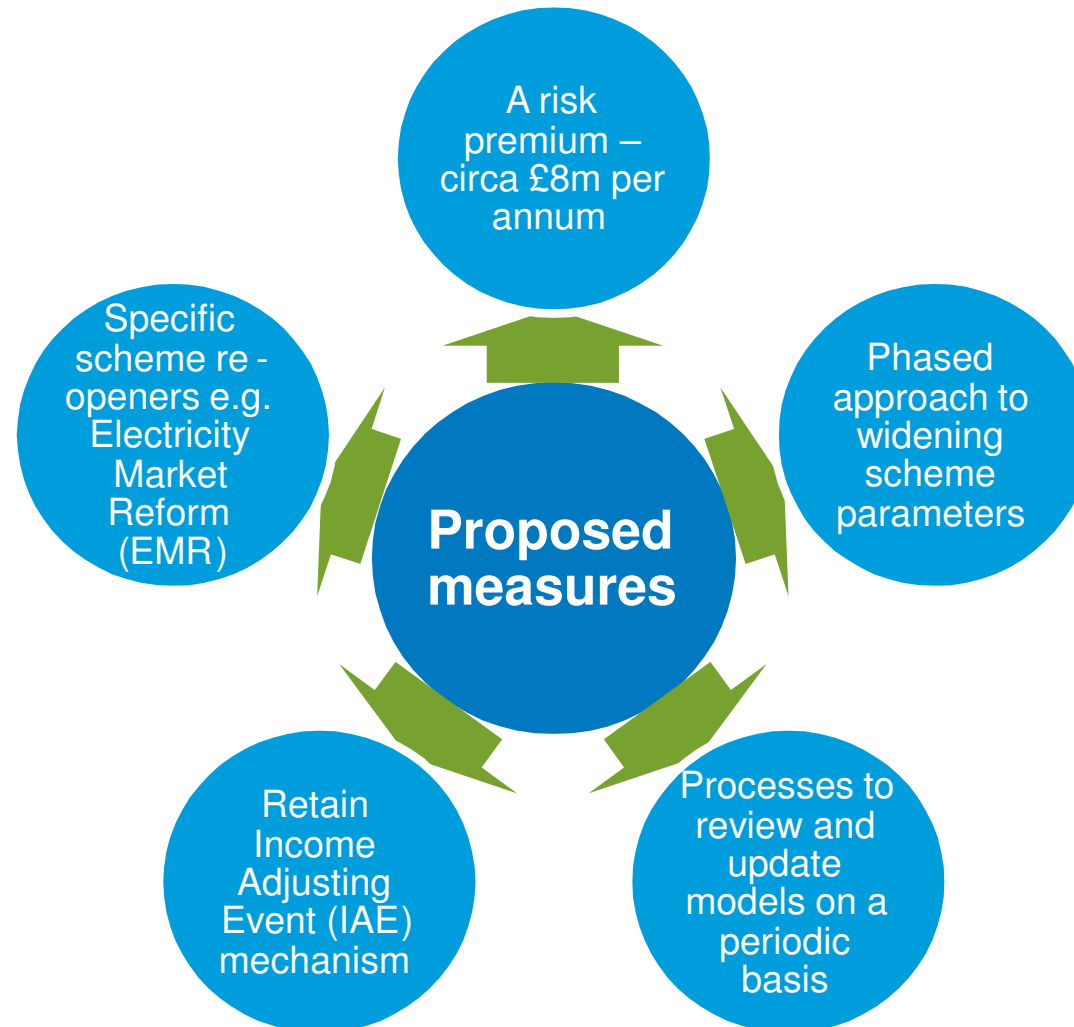
### Possible outcomes under the incentive scheme

	Max Gain		Max Loss	
	Survey score	Max gain	Survey score	Max loss
Uncapped performance	9.00	+1.0%	4.80	-1.0%
Capped performance	7.95	+0.5%	5.85	-0.5%

- TO proposal to include both the SO and TO roles

# Managing Risk & Uncertainty

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## Summary & Next Steps

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- Our SO Incentives proposals are available at:  
[www.nationalgrid.com/uk/Electricity/soincentives/docs/](http://www.nationalgrid.com/uk/Electricity/soincentives/docs/)
- Ofgem will be publishing its Initial Proposals in the summer
- Further questions or queries please contact:  
[soincentives@nationalgrid.com](mailto:soincentives@nationalgrid.com) or [katharine.clench@nationalgrid.com](mailto:katharine.clench@nationalgrid.com)

