

# IntraFlex Phase 2 – Sub Tests Webinar

17<sup>th</sup> February 2021 Attendee Version







# Outline

AGENDA ITEM	Duration	
Introduction	5 Mins	
Phase 2 Overview	5 Mins	
Onboarding and Customer Journey	5 Mins	
Sub Tests		
Key Principles	5 Mins	
<ul> <li>Tests 1 – 6 Detail</li> </ul>	35 Mins	
Feedback	10 Mins	
Information Service	5 Mins	
NODES Platform Developments	5 Mins	
Questions	15 Mins	
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# IntraFlex Introduction

- 1. Welcome from Stuart
- 2. Today's presenters
- 3. Feedback and Learning





# IntraFlex We want your feedback

#### Today

- Please ask questions throughout the presentation
- Discuss your thoughts
- Open questions at the end of the session

#### After the event

Send feedback to : <u>sfowler@westernpower.co.uk</u>



SE2

# **Project Overview**

- The project builds on WPD's existing procurement of flexibility services through Flexible Power.
- IntraFlex aims to understand how to deliver a link between DNO procurement activity and Balance Responsible Party (BRP) imbalance positions.
- It will test a short-term market for DNO flexibility which actively accounts for the imbalance it creates in the electricity market.
- It is a £1.2m project (£0.89m NIA funded) and runs from October 19 to November 21. The project partners are NODES and SGC.



SE2 Could skip this slide, as Phase 1 participants should (hopefully) know this? Sofia Eng, 04/02/2021



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# IntraFlex Phase 2 Overview

The focus is on ramping up and delivering a larger trial in Spring 2021. This Phase will focus on:

- Driving closer to a BaU behaviours with focus on peak demand delivery windows.
- Longer duration trial with more value on the platform
- Increased liquidity and hence competition.
- Active bids from providers to create competition on price rather than just speed.
- Platform and process improvements to make things simpler and easier to scale.
- BRP Information Service.





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## Phase 2 Participant Journey - Onboarding

#### Participants do need to complete tasks 4, 5, 6

Flexibility service providers who took part in Phase 1 do not need to reregister or re-sign the Membership Agreement. The updated Rulebook will be circulated.

Providers will be asked to confirm continued participation and participating assets via email to NODES.

- 4. Test Zero (End to End System testing)
- 5. Confirm Pre-Qualification
- 6. Asset Approval



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## **Phase 2 Participant Journey – Timeline**





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## IntraFlex Phase 2 Sub Tests - Principles

### **Key Principals**

- A BID is placed by WPD and shows the volume of flexibility that is required for which 1/2 hour period.
- An OFFER is placed by the participants to show the time and volume of flexibility that they have available and the £value they would like to offer this at per MWh.
- T-x refers to the number of days before delivery (T-7 means 7 days before delivery, T-6 means 6 days before delivery and so on).
- All bids will be posted at T-7 with a nominal £value but will show the volume required in the ½ hour period. This shows participants where WPD will require flexibility as prompt for pre offers to be posted.





# **Phase 2 Sub Tests - Principles**

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- Initial Market information bids placed 7 days ahead.
- Volume requirements communicated to participants
- Positive confirmation of network assessment
- Participants pre offer their volumes with prices or respond to bids posted.
- WPD submits value of bids closer to real time (to be discussed later)
- Bids clear
- Remaining volume stays





## IntraFlex Phase 2 Sub Tests - Principles

The Table below describes the evolution of the bidding mechanisms as the trial develops

Test	Market Opens	Gate Close	Bid Alerts	Bid Time	Bid Increment	Scarcity Pricing	Max Value	Weekend Offers	Weekend Bids
1	7 days	90 mins	$\checkmark$	10am	single	×	T-3 days	V	×
2	7 days	90 mins	$\checkmark$	10am	linear	×	T-3 days	$\checkmark$	×
3	7 days	90 mins	$\checkmark$	variable	variable	×	T-3 days	$\checkmark$	×
4	7 days	90 mins	$\checkmark$	10am	linear	$\checkmark$	T-3 days	$\checkmark$	×
5	7 days	90 mins	$\checkmark$	10am	linear	×	Intraday	$\checkmark$	*
6a	7 days	90 mins	$\checkmark$	10am	linear	$\checkmark$	intraday	×	×
6b	7 days	90 mins	$\checkmark$	variable	variable	V	intraday	V	×



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3 Weeks

Test 5

3 Weeks

Test 4

3 Weeks

Test 3

3 Weeks

# IntraFlex

Phase 2 Sub Trials

## Test 1 (P2-T1) Simple Bidding 3 weeks

- ✓ Retain a predictable timing for all actions
- Rather than email notice of requirements bids only reflect volume

Test 2

3 Weeks

✓ System notifications of any activity

Test 0

4 Weeks

Onboarding

- $\checkmark$  Initial bid at T 7 days with just volume at 10:00
- FSP submit offers when they are ready with baseline and asset availability
- ✓ Max bid value published at T 3 days ahead at 10:00
- ✓ Uncleared bids remain to T 90mins
- ✓ No Weekend Bids





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WPD



3 Weeks

Test 5

3 Weeks

Test 3

3 Weeks

Test 4

3 Weeks

Test 2

3 Weeks

#### **IntraFlex**

### P2-T1 Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

				P2	T1 Week	1					P2	T1 Week	2		
	PHASE 2 TEST 1	Sun-	Mon-	Tue-	Wed-	Thu-	Fri-	Sat-	Sun-	Mon-	Tue-	Wed-	Thu-	Fri-	Sat-
	FRASE 2 TEST T	25-	26-	27-	28-	29-	30-	01-	02-	03-	04-	05-	06-	07-	08-
		Apr	Apr	Apr	Apr	Apr	Apr	May	May	May	May	May	May	May	May
	Bids Zero Value (T-7)		Mon	Tue	Wed	Thur	Fri			Mon	Tue	Wed	Thur	Fri	
<b>N</b>	Blus Zero Value (1-7)		wk. 2	wk. 2	wk. 2	wk. 2	wk. 2			wk. 3	wk. 3	wk. 3	wk. 3	wk. 3	
	All and the post (All 1996) (and the post of the post						Mon							Mon	
							wł.2	5						wk. 3	
	Bids Max @£300 (T-3)					$\rightarrow$	Tie			Thur	Fri			Tue	
· · · · ·							wł.2	6		wk. 2	wk. 2			wk. 3	
						$\rightarrow$	b€ W							Wed	
							wk. 2							wk. 3	
	Bid Delivery Day		Mon	Tue	Wed	Thur	Fri			Mon	Tue	Wed	Thur	Fri	
	Bid Beillery Bay		wk. 1	wk. 1	wk. 1	wk. 1	wk. 1			wk. 2	wk. 2	wk. 2	wk. 2	wk. 2	

			P2	2 T1 Wee	k 3					P2	T1 Weel	<b>4</b>		
PHASE 2 TEST 1	Sun- 09- Mav	Mon- 10- Mav	Tue- 11- Mav	Wed- 12- May	Thu- 13- May	Fri- 14- May	Sat-15- May	Sun- 16- May	Mon- 17- Mav	Tue- 18- Mav	Wed- 19- Mav	Thu- 20- Mav	Fri- 21- Mav	Sat- 22- May
Bids Zero Value (T-7)	Way	Mon wk. 4	Tue wk. 4	Wed wk. 4	Thur wk. 4	Fri wk. 4	6 6	Iviay	Mon P2T2 wk. 1	Tue P2T2 wk. 1	Wed P2T2 wk. 1	Thu P2T2 wk. 1	Fri P2T2 wk. 1	IVIA
Bids Max @£300 (T-3)		Thur wk. 3	Fri wk. 3			Mon wk. 4 Tue wk. 4 Wed wk. 4			P2 T1 Thur wk. 4	P2 T1 Fri wk. 4				
Bid Delivery Day		Mon wk. 3	Tue wk. 3	Wed wk. 3	Thur wk. 3	Fri wk. 3			won wk. 4	iue wk. 4	Wed wk. 4	Thur wk. 4	Fri wk. 4	





3 Weeks

Test 5

3 Weeks

## IntraFlex Phase 2 Sub Trials



✓ Retain a predictable timing for all actions

Test 1

4 Weeks

✓ Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

- ✓ System notifications of any activity
- ✓ Fixed schedule for bid increments each day at set time

Test 2

- ✓ Fixed increase in bid price increments.
- Max bid value reached by 3 days ahead
- ✓ No Weekend Bids



Test 3

3 Weeks

Test 4

3 Weeks

# IntraFlex P2-T2 Timeline



WPD





3 Weeks

Test 5

3 Weeks

#### **IntraFlex**

P2-T2 Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

Test 1

4 Weeks

Test 3

3 Weeks

Test 4

3 Weeks

PHASE 2 TEST 2			×	P2 T1 Week 4				2	2)		P2 T2 Week 1	· · · · · ·		
PHASE 2 TEST 2	Sun-16-May	Mon-17-May	Tue-18-May	Wed-19-May	Thu-20-May	Fri-21-May	Sat-22-May	Sun-23-May	Mon-24-May	Tue-25-May	Wed-26-May	Thu-27-May	Fri-28-May	Sat-29-May
Bids Zero Value (T-7)		Mon P2T2 wk 1	Tue P2T2 wk 1	Wed P2T2 wk 1	Thu P2T2 wk 1	Fri P2T2 wk 1			Mon P2T2 wk 2	Tue P2T2 wk 2	Wed P2T2 wk 2	Thu P2T2 wk 2	Fri P2T2 wk 2	
Bids Incremental @£75 (T-6)			Mon P2T2 wk 1	Tue P2T2 wk 1	Wed P2T2 wk 1	Thu P2T2 wk 1				Mon P2T2 wk 2	Tue P2T2 wk 2	Wed P2T2 wk 2	Thu P2T2 wk 2	
Bids Incremental @£150 (T-5)				Mon P2T2 wk 1	Tue P2T2 wk 1	Wed P2T2 wk 1	The P2T2 wk 1	Pri P2T2 wk 1			Mon P2T2 wk 2	Tue P2T2 wk 2	Wed P2T2 wk 2	
Bids Incremental @£225 (T-4)					Mon P2T2 wk 1	Tue P2T2 wk 1	Wed P2T2 Wk1	Thu P2T2-wk.1	Fri P2T2 wk 1			Mon P2T2 wk 2	Tue P2T2 wk 2	Welt PZTZ wk/2
					$\square \longrightarrow$	Mon P2T2 wk 1							Mon P2T2 wk 2	
Bids Max @£300 (T-3)		P2 T1 Thur wk 4	P2 T1 Fri wk 4			Tue P2T2 wk 1		Wed P272 wit 1	Thu P2T2 wk 1	Fri P2T2 wk 1			Tue P2T2 wk 2	
						Wed P2T2 wk 1							Wed P2T2 wk 2	
Bid Delivery Day		Mon P2T1 wk 4	Tue P2 T1 wk 4	Wed P2T1 wk 4	Thur P2T1 wk 4	Fri P2T1 wk 4			Mon P2T2 wk 1	Tue P2T2 wk 1	Wed P2T2 wk 1	Thu P2T2 wk 1	Fri P2T2 wk 1	

PHASE 2 TEST 2	11			P2 T2 Week 2			li II				P2 T2 Week 3			
PRASE 2 TEST 2	Sun-30-May	Mon-31-May	Tue-01-Jun	Wed-02-Jun	Thu-03-Jun	Fri-04-Jun	Sat-05-Jun	Sun-06-Jun	Mon-07-Jun	Tue-08-Jun	Wed-09-Jun	Thu-10-Jun	Fri-11-Jun	Sat-12-Jun
Bids Zero Value (T-7)		Mon P2T2 wk 3	Tue P2T2 wk 3	Wed P2T2 wk 3	Thu P2T2 wk 3	Fri P2T2 wk 3								
Bids Incremental @£75 (T-6)			Mon P2T2 wk 3	Tue P2T2 wk 3	Wed P2T2 wk 3	Thu P2T2 wk 3	Print and and a							
Bids Incremental @£150 (T-5)	/ RH PATEWER			Mon P2T2 wk 3	Tue P2T2 wk 3	Wed P2T2 wk3	The FILL with	Fri Parzwell						
Bids Incremental @£225 (T-4)	The P112 are 2	Fri P2T2 wk 2			Mon P2T2 wk 3	Tue P212 wk 3	West 7277 and A	They are a	Fri P2T2 wk 3					
						Mon P2T2 wk 3								
Bids Max @£300 (T-3)	word rate what.	Thu P2T2 wk 2	Fri P2T2 wk 2			Tue P2T2 wk 3	The NZT2 wit 3	weed with white	Thu P2T2 wk 3	Fri P2T2 wk 3				
						Wed P2T2 wk 3					,			
Bid Delivery Day		Mon P2T2 wk 2	Tue P2T2 wk 2	Wed P2T2 wk 2	Thu P2T2 wk 2	Fri P2T2 wk 2			Mon P2T2 wk 3	Tue P2T2 wk 3	Wed P2T2 wk 3	Thu P2T2 wk 3	Fri P2T2 wk 3	



3 Weeks

Test 5

3 Weeks

Test 4

3 Weeks

## IntraFlex Phase 2 Sub Trials

## Test 3 (P2-T3) Variable increments at variable timing

3 weeks

Further reduction in the structure of the bidding process encouraging FSPs to be more responsive to activity alerts from NODES system;

Test 2

3 Weeks

✓ Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

- ✓ System notifications of any activity
- $\times$ Fixed schedule for bid increments each day at set time
- $\times$ Fixed increase in bid value.
- Max bid value reached by 3 days ahead

Test 1

3 Weeks

✓ No Weekend Bids





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**IntraFlex** 

WPD



3 Weeks

Test 5

3 Weeks

Test 4

3 Weeks

#### **IntraFlex**

#### P2-T3 Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

Test 1

4 Weeks

Test 2

3 Weeks

PHASE 2 TEST 3				P2 T2 Week 3							P2 T3 Week 1			
PHASE 2 TEST 3	Sun-06-Jun	Mon-07-Jun	Tue-08-Jun	Wed-09-Jun	Thu-10-Jun	Fri-11-Jun	Sat-12-Jun	Sun-13-Jun	Mon-14-Jun	Tue-15-Jun	Wed-16-Jun	Thu-17-Jun	Fri-18-Jun	Sat-19-Jun
Bids Zero Value (T-7)		Mon P2T3 wk 1	Tue P2T3 wk 1	Wed P2T3 wk 1	Thu P2T3 wk 1	Fri P2T3 wk 1			Mon P2T3 wk 2	Tue P2T3 wk 2	Wed P2T3 wk 2	Thu P2T3 wk 2	Fri P2T3 wk 2	
Bids Incremental random			Mon P2T3 wk 1	Tue P2T3 wk 1	Wed P2T3 wk 1	Thu P2T3 wk 1	Fillers whit			Mon P2T3 wk 2	Tue P2T3 wk 2	Wed P2T3 wk 2	Thu P2T3 wk 2	Frikz*3 wk3
Bids Incremental random				Mon P2T3 wk 1	Tue P2T3 wk 1	Wed P2T3 wk 1	Thursday 1	fit FITLWAL			Mon P2T3 wk 2	Tue P2T3 wk 2	Wed P2T3 wk 2	Thursdawk?
Bids Incremental random					Mon P2T3 wk 1	Tue P213 wk1	Wegerziswe'	Thu 2212 no.1	Fri P2T3 wk 1			Mon P2T3 wk 2	Tue P2T3 wk 2	Weg 7713 laky
						Mon P2T3 wk 1							Mon P2T3 wk 2	
Bids Max @£300 (T-3)						Tue P2T2 wk 1	Two series of	West Participle di	Thu P2T3 wk 1	Fri P2T3 wk 1			Tue P2T3 wk 2	
						Wed P2T2 wk 1							Wed P2T3 wk 2	
Bid Delivery Day		Mon P2T2 wk 3	Tue P2T2 wk 3	Wed P2T2 wk 3	Thu P2T2 wk 3	Fri P2T2 wk 3			Mon P2T3 wk 1	Tue P2T3 wk 1	Wed P2T3 wk 1	Thu P2T3 wk 1	Fri P2T3 wk 1	

PHASE 2 TEST 3				P2 T3 Week 2							P2 T3Week 3			
PRASE 2 TEST 3	Sun-20-Jun	Mon-21-Jun	Tue-22-Jun	Wed-23-Jun	Thu-24-Jun	Fri-25-Jun	Sat-26-Jun	Sun-27-Jun	Mon-28-Jun	Tue-29-Jun	Wed-30-Jun	Thu-01-Jul	Fri-02-Jul	Sat-03-Jul
Bids Zero Value (T-7)		Mon P2T3 wk 3	Tue P2T3 wk 3	Wed P2T3 wk 3	Thu P2T3 wk 3	Fri P2T3 wk 3								
Bids Incremental random			Mon P2T3 wk 3	Tue P2T3 wk 3	Wed P2T3 wk 3	Thu P2T3 wk 3	1411222 mk 5							
Bids Incremental random	An April white			Mon P2T3 wk 3	Tue P2T3 wk 3	Wed P2T3 wk 3	Thu 7212 which	fit PTTLykE						
Bids Incremental random		Fri P2T3 wk 2			Mon P2T3 wk 3	Tue P2T3 wk3		Thursda was	Fri P2T3 wk 3					
						Mon P2T3 wk 3								
Bids Max @£300 (T-3)		Thu P2T3 wk 2	Fri P2T3 wk 2			Tue P2T3 wk 3	Two participants :	Wed 9273 wk A	Thu P2T3 wk 3	Fri P2T3 wk 3				
				1		Wed P2T3 wk 3					2			
Bid Delivery Day		Mon P2T3 wk 2	Tue P2T3 wk 2	Wed P2T3 wk 2	Thu P2T3 wk 2	Fri P2T3 wk 2			Mon P2T3 wk 3	Tue P2T3 wk 3	Wed P2T3 wk 3	Thu P2T3 wk 3	Fri P2T3 wk 3	





3 Weeks

Test 5

3 Weeks

# Phase 2 Sub Trials

## Test 4 (P2-T4) Scarcity Pricing model 3 weeks

Further reduction in the structure of the bidding process encouraging FSPs to be more responsive to activity alerts from NODES system;

Test 2

3 Weeks

Test 3

3 Weeks

✓ Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

- ✓ System notification of bid activity
- Price increments relative to volume requirement
- Max bid value reached by 3 days ahead

Test 1

3 Weeks

✓ No Weekend Bids



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3 Weeks

Test 5

3 Weeks

#### **IntraFlex**

### P2-T4 Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

Test 1

4 Weeks

Test 3

3 Weeks

Test 2

3 Weeks

				P2 T3 Week 3							P2 T4 Week 1			
PHASE 2 TEST 4	Sun-27-Jun	Mon-28-Jun	Tue-29-Jun	Wed-30-Jun	Thu-01-Jul	Fri-02-Jul	Sat-03-Jul	Sun-04-Jul	Mon-05-Jul	Tue-06-Jul	Wed-07-Jul	Thu-08-Jul	Fri-09-Jul	Sat-10-Jul
Bids Zero Value (T-7)		Mon P2T4 wk 1	Tue P2T4 wk 1	Wed P2T4 wk 1	Thu P2T4 wk 1	Fri P2T4 wk 1			Mon P2T4 wk 2	Tue P2T4 wk 2	Wed P2T4 wk 2	Thu P2T4 wk 2	Fri P2T4 wk 2	
Bids Incremental 1 (T-6)			Mon P2T4 wk 1	Tue P2T4 wk 1	Wed P2T4 wk 1	Thu P2T4 wk 1	Fri P2T4 wk 1			Mon P2T4 wk 2	Tue P2T4 wk 2	Wed P2T4 wk 2	Thu P2T4 wk 2	Fri PZT4 wk 2
Bids Incremental 2 (T-5)				Mon P2T4 wk 1	Tue P2T4 wk 1	Wed P2T4 wk 1	Thu P2T4 wk 1	Fri P2T4 wk 1			Mon P2T4 wk 2	Tue P2T4 wk 2	Wed P2T4 wk 2	Thu P2T4 wk 2
Bids Incremental 3 (T-4)					Mon P2T4 wk 1	Tue P2T4 wk 1	Wed P2T4 whit	Thu P2T4 wk 1	Fri P2T4 wk 1			Mon P2T4 wk 2	Tue P2T4 wk 2	Wed P2T4 wk Z
						Mon P2T4 wk 1							Mon P2T4 wk 2	
Bids Max according to scarcity model (T-3)						Tue P2T4 wk 1	Toe P2T2 wk 1		Thu P2T4 wk 1	Fri P2T4 wk 1			Tue P2T4 wk 2	Tue P2T2 wk 2
						Wed P2T4 wk 1							Wed P2T4 wk 2	
Bid Delivery Day		Mon P2T3 wk 3	Tue P2T3 wk 3	Wed P2T3 wk 3	Thu P2T3 wk 3	Fri P2T3 wk 3			Mon P2T4 wk 1	Tue P2T4 wk 1	Wed P2T4 wk 1	Thu P2T4 wk 1	Fri P2T4 wk 1	

PHASE 2 TEST 4				P2 T4 Week 2							P2 T4 Week 3			
PHASE 2 TEST 4	Sun-11-Jul	Mon-12-Jul	Tue-13-Jul	Wed-14-Jul	Thu-15-Jul	Fri-16-Jul	Sat-17-Jul	Sun-18-Jul	Mon-19-Jul	Tue-20-Jul	Wed-21-Jul	Thu-22-Jul	Fri-23-Jul	Sat-24-Jul
Bids Zero Value (T-7)		Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu P2T4 wk 3	Fri P2T4 wk 3								
Bids Incremental 1 (T-6)			Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu P2T4 wk 3	Fri P2T4 wk 3							
Bids Incremental 2 (T-5)	Fri P2T4 wk.2			Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu P2T4 wk 3	Fri P2T4/wk 3						
Bids Incremental 3 (T-4)	Thu P2T4 wk 2	Fri P2T4 wk 2			Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu PZT4 wk3	Fri P2T4 wk 3					
						Mon P2T4 wk 3								
Bids Max according to scarcity model (T-3)	Wed P2T2 wk 2	Thu P2T4 wk 2	Fri P2T4 wk 2			Tue P2T4 wk 3	Tue P2T2 wk 3	Wed P2T2 wk3	Thu P2T4 wk 3	Fri P2T4 wk 3				
, , ,						Wed P2T4 wk 3								
Bid Delivery Day		Mon P2T4 wk 2	Tue P2T4 wk 2	Wed P2T4 wk 2	Thu P2T4 wk 2	Fri P2T4 wk 2			Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu P2T4 wk 3	Fri P2T4 wk 3	



Test 6a/b

3 Weeks

## IntraFlex Phase 2 Sub Trials

## Test 5 (P2-T5)

Intraday with Predictable Increments

3 weeks

Further reduction in the structure of the bidding process encouraging FSPs to be more responsive to activity alerts from NODES system;

Test 2

3 Weeks

Test 3

3 Weeks

Test 4

3 Weeks

✓ Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

✓ System notification of bid activity

Test 1

4 Weeks

- ✓ Fixed schedule for bid increments each day at set time
- ✓ Fixed increase in bid value.
- ✓ Max bid value only reached Intraday
- Bids will be focussed on early afternoon and evening
- ✓ No Weekend Bids



## IntraFlex P2-T5 Timeline



WPD





3 Weeks

#### **IntraFlex**

### P2-T5 Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

Test 1

4 Weeks

Test 3

3 Weeks

Test 4

3 Weeks

Test 2

3 Weeks

DUACE 2 TECT 5				P2 T4 Week 3							P2 T5 Week 1			
PHASE 2 TEST 5	Sun-18-Jul	Mon-19-Jul	Tue-20-Jul	Wed-21-Jul	Thu-22-Jul	Fri-23-Jul	Sat-24-Jul	Sun-25-Jul	Mon-26-Jul	Tue-27-Jul	Wed-28-Jul	Thu-29-Jul	Fri-30-Jul	Sat-31-Jul
Bids Zero Value (T-7)		Mon P2T5 wk 1	Tue P2T5 wk 1	Wed P2T5 wk 1	Thu P2T5 wk 1	Fri P2T5 wk 1		ľ.	Mon P2T5 wk 2	Tue P2T5 wk 2	Wed P2T5 wk 2	Thu P2T5 wk 2	Fri P2T5 wk 2	
Incremental Bid 1 @£60/MWh			Mon P2T5 wk 1	Tue P2T5 wk 1	Wed P2T5 wk 1	Thu P2T5 wk 1			Fri P2T5 wk 1	Mon P2T5 wk 2	Tue P2T5 wk 2	Wed P2T5 wk 2	Thu P2T5 wk 2	
Incremental Bid 2 @£120/MWh				Mon P2T5 wk 1	Tue P2T5 wk 1	Wed P2T5 wk 1			Thu P2T5 wk 1	Fri P2T5 wk 1	Mon P2T5 wk 2	Tue P2T5 wk 2	Wed P2T5 wk 2	
Incremental Bid 3 @£180/MWh					Mon P2T5 wk 1	Tue P2T5 wk 1			Wed P2T5 wk 1	Thu P2T5 wk 1	Fri P2T5 wk 1	Mon P2T5 wk 2	Tue P2T5 wk 2	
Incremental Bid 4 @£240/MWh						Mon P2T5 wk 1		45	Tue P2T5 wk 1	Wed P2T5 wk 1	Thu P2T5 wk 1	Fri P2T5 wk 1	Mon P2T5 wk 2	
Final Max Bid at Intraday (Before 10:00) @£300MWh									Mon P2T5 wk 1	Tue P2T5 wk 1	Wed P2T5 wk 1	Thu P2T5 wk 1	Fri P2T5 wk 1	
Bid Delivery Day		Mon P2T4 wk 3	Tue P2T4 wk 3	Wed P2T4 wk 3	Thu P2T4 wk 3	Fri P2T4 wk 3			Mon P2T5 wk 1	Tue P2T5 wk 1	Wed P2T5 wk 1	Thu P2T5 wk 1	Fri P2T5 wk 1	2

DUACE 3 TECT 5	8			P2 T5 Week 2			8	8			P2 T5 Week 3			
PHASE 2 TEST 5	Sun-01-Aug	Mon-02-Aug	Tue-03-Aug	Wed-04-Aug	Thu-05-Aug	Fri-06-Aug	Sat-07-Aug	Sun-08-Aug	Mon-09-Aug	Tue-10-Aug	Wed-11-Aug	Thu-12-Aug	Fri-13-Aug	Sat-14-Aug
Bids Zero Value (T-7)		Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3		с. -					1	
Incremental Bid 1 @£60/MWh		Fri P2T5 wk 2	Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3			Fri P2T5 wk 3					
Incremental Bid 2 @£120/MWh		Thu P2T5 wk 2	Fri P2T5 wk 2	Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3			Thu P2T5 wk 3	Fri P2T5 wk 3				et.
Incremental Bid 3 @£180/MWh		Wed P2T5 wk 2	Thu P2T5 wk 2	Fri P2T5 wk 2	Mon P2T5 wk 3	Tue P2T5 wk 3			Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3			
Incremental Bid 4 @£240/MWh		Tue P2T5 wk 2	Wed P2T5 wk 2	Thu P2T5 wk 2	Fri P2T5 wk 2	Mon P2T5 wk 3	4		Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3		
Final Max Bid at Intraday (Before 10:00) @£300MWh	4	Mon P2T5 wk 2	Tue P2T5 wk 2	Wed P2T5 wk 2	Thu P2T5 wk 2	Fri P2T5 wk 2		4	Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3	
Bid Delivery Day	4	Mon P2T5 wk 2	Tue P2T5 wk 2	Wed P2T5 wk 2	Thu P2T5 wk 2	Fri P2T5 wk 2			Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3	





3 Weeks

## IntraFlex Phase 2 Sub Trials

## Test 6 (P2-T6a) Intraday Scarcity Bids 3 weeks

Further reduction in the structure of the bidding process encouraging FSPs to be more responsive to activity alerts from NODES system;

Test 3

3 Weeks

Test 4

3 Weeks

Test 2

3 Weeks

 $\checkmark$  Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

✓ System notification of bid activity

Test 1

3 Weeks

- $\checkmark$  Fixed schedule for bid increments each day at set time
- ×Fixed increase in bid value
- ✓ Max bid value only reached Intraday
- ✓ No Weekend Bids





3 Weeks

#### **IntraFlex**

#### P2-T6a Platform Interaction Onboarding

#### **No Weekend Bids**

Test 0

4 Weeks

Test 1

4 Weeks

Test 3

3 Weeks

Test 4

3 Weeks

Test 2

3 Weeks

	5			P2 T5 Week 3				1			P2 T6a Week 1			
PHASE 2 TEST 6a	Sun-08-Aug	Mon-09-Aug	Tue-10-Aug	Wed-11-Aug	Thu-12-Aug	Fri-13-Aug	Sat-14-Aug	Sun-15-Aug	Mon-16-Aug	Tue-17-Aug	Wed-18-Aug	Thu-19-Aug	Fri-20-Aug	Sat-21-Aug
Bids Zero Value (T-7)	17	Mon P2T6a wk 1	Tue P2T6a wk 1	Wed P2T6a wk 1	Thu P2T6a wk 1	Fri P2T6a wk 1		ar.	Mon P2T6a wk 2	Tue P2T6a wk 2	Wed P2T6a wk 2	Thu P2T6a wk 2	Fri P2T6a wk 2	
Incremental Bid 1 @ £/MWh Set by scarcity model			Mon P2T6a wk 1	Tue P2T6a wk 1	Wed P2T6a wk 1	Thu P2T6a wk 1			Fri P2T6a wk 1	Mon P2T6a wk 2	Tue P2T6a wk 2	Wed P2T6a wk 2	Thu P2T6a wk 2	
Incremental Bid 2 @ £/MWh Set by scarcity model			14	Mon P2T6a wk 1	Tue P2T6a wk 1	Wed P2T6a wk 1			Thu P2T6a wk 1	Fri P2T6a wk 1	Mon P2T6a wk 2	Tue P2T6a wk 2	Wed P2T6a wk 2	
Incremental Bid 3 @ £/MWh Set by scarcity model					Mon P2T6a wk 1	Tue P2T6a wk 1			Wed P2T6a wk 1	Thu P2T6a wk 1	Fri P2T6a wk 1	Mon P2T6a wk 2	Tue P2T6a wk 2	
Incremental Bid 4 @ £/MWh Set by scarcity model			0	11	0	Mon P2T6a wk 1	с.		Tue P2T6a wk 1	Wed P2T6a wk 1	Thu P2T6a wk 1	Fri P2T6a wk 1	Mon P2T6a wk 2	
Final Max Bid at Intraday (Before 10:00) @ £/MWh Set by scarcity model							v		Mon P2T6a wk 1	Tue P2T6a wk 1	Wed P2T6a wk 1	Thu P2T6a wk 1	Fri P2T6a wk 1	
Bid Delivery Day		Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3		-	Mon P2T6a wk 1	Tue P2T6a wk 1	Wed P2T6a wk 1	Thu P2T6a wk 1	Fri P2T6a wk 1	

DUACE & TECT C.	1			P2 T6a Week 2				1			P2 T6a Week 3			
PHASE 2 TEST 6a	Sun-22-Aug	Mon-23-Aug	Tue-24-Aug	Wed-25-Aug	Thu-26-Aug	Fri-27-Aug	Sat-28-Aug	Sun-29-Aug	Mon-30-Aug	Tue-31-Aug	Wed-01-Sep	Thu-02-Sep	Fri-03-Sep	Sat-04-Sep
Bids Zero Value (T-7)	17	Mon P2T6a wk 3	Tue P2T6a wk 3	Wed P2T6a wk 3	Thu P2T6a wk 3	Fri P2T6a wk 3		17	12		1			)
Incremental Bid 1 @ £/MWh Set by scarcity model		Fri P2T6a wk 2	Mon P2T6a wk 3	Tue P2T6a wk 3	Wed P2T6a wk 3	Thu P2T6a wk 3			Fri P2T6a wk 3					
Incremental Bid 2 @ £/MWh Set by scarcity model		Thu P2T6a wk 2	Fri P2T6a wk 2	Mon P2T6a wk 3	Tue P2T6a wk 3	Wed P2T6a wk 3			Thu P2T6a wk 3	Fri P2T6a wk 3				
Incremental Bid 3 @ £/MWh Set by scarcity model		Wed P2T6a wk 2	Thu P2T6a wk 2	Fri P2T6a wk 2	Mon P2T6a wk 3	Tue P2T6a wk 3			Wed P2T6a wk 3	Thu P2T6a wk 3	Fri P2T6a wk 3			
incremental Bid 4 @ £/MWh Set by scarcity model		Tue P2T6a wk 2	Wed P2T6a wk 2	Thu P2T6a wk 2	Fri P2T6a wk 2	Mon P2T6a wk 3		2	Tue P2T6a wk 3	Wed P2T6a wk 3	Thu P2T6a wk 3	Fri P2T6a wk 3		12
Final Max Bid at Intraday (Before 10:00) @ £/MWh Set by scarcity model		Mon P2T6a wk 2	Tue P2T6a wk 2	Wed P2T6a wk 2	Thu P2T6a wk 2	Fri P2T6a wk 2			Mon P2T6a wk 3	Tue P2T6a wk 3	Wed P2T6a wk 3	Thu P2T6a wk 3	Fri P2T6a wk 3	
Bid Delivery Day		Mon P2T6a wk 2	Tue P2T6a wk 2	Wed P2T6a wk 2	Thu P2T6a wk 2	Fri P2T6a wk 2			Mon P2T6a wk 3	Tue P2T6a wk 3	Wed P2T6a wk 3	Thu P2T6a wk 3	Fri P2T6a wk 3	



3 Weeks

### IntraFlex Phase 2 Sub Trials

## Test 6 (P2-T6b) Intraday Scarcity Bids 3 weeks

Further reduction in the structure of the bidding process encouraging FSPs to be more responsive to activity alerts from NODES system;

Test 3

3 Weeks

Test 4

3 Weeks

Test 2

<u>3</u>Weeks

✓ Initial bid at T – 7 days

Test 0

4 Weeks

Onboarding

✓ System notification of bid activity

Test 1

3 Weeks

- ×Fixed schedule for bid increments each day at set time
- ×Fixed increase in bid value.
- ✓ Max bid value only reached Intraday
- ✓ No Weekend Bids





### No Weekend Bids

Test 0

4 Weeks

Test 1

4 Weeks

PHASE 2 TEST 6b				P2 T6a Week 3				0			P2 T6b Week 1			
PHASE 2 TEST 60	Sun-08-Aug	Mon-09-Aug	Tue-10-Aug	Wed-11-Aug	Thu-12-Aug	Fri-13-Aug	Sat-14-Aug	Sun-15-Aug	Mon-16-Aug	Tue-17-Aug	Wed-18-Aug	Thu-19-Aug	Fri-20-Aug	Sat-21-Aug
Bids Zero Value (T-7)		Mon P2T6b wk 1	Tue P2T6b wk 1	Wed P2T6b wk 1	Thu P2T6b wk 1	Fri P2T6b wk 1		<i>x</i>	Mon P2T6b wk 2	Tue P2T6b wk 2	Wed P2T6b wk 2	Thu P2T6b wk 2	Fri P2T6b wk 2	
Random Incremental Bid @ £/MWh Set by scarcity model			Mon P2T6b wk 1	Tue P2T6b wk 1	Wed P2T6b wk 1	Thu P2T6b wk 1			Fri P2T6b wk 1	Mon P2T6b wk 2	Tue P2T6b wk 2	Wed P2T6b wk 2	Thu P2T6b wk 2	
Random Incremental Bid @ £/MWh Set by scarcity model				Mon P2T6b wk 1	Tue P2T6b wk 1	Wed P2T6b wk 1			Thu P2T6b wk 1	Fri P2T6b wk 1	Mon P2T6b wk 2	Tue P2T6b wk 2	Wed P2T6b wk 2	
Random Incremental Bid @ £/MWh Set by scarcity model					Mon P2T6b wk 1	Tue P2T6b wk 1			Wed P2T6b wk 1	Thu P2T6b wk 1	Fri P2T6b wk 1	Mon P2T6b wk 2	Tue P2T6b wk 2	
Random Incremental Bid @ £/MWh Set by scarcity model						Mon P2T6b wk 1			Tue P2T6b wk 1	Wed P2T6b wk 1	Thu P2T6b wk 1	Fri P2T6b wk 1	Mon P2T6b wk 2	
Final Max Bid at Intraday (Before 10:00) @ £/MWh Set by scarcity model									Mon P2T6b wk 1	Tue P2T6b wk 1	Wed P2T6b wk 1	Thu P2T6b wk 1	Fri P2T6b wk 1	
Bid Delivery Day		Mon P2T5 wk 3	Tue P2T5 wk 3	Wed P2T5 wk 3	Thu P2T5 wk 3	Fri P2T5 wk 3	2	0	Mon P2T6b wk 1	Tue P2T6b wk 1	Wed P2T6b wk 1	Thu P2T6b wk 1	Fri P2T6b wk 1	

PHASE 2 TEST 6b				P2 T6b Week 2				0			P2 T6b Week 3			
PHASE 2 TEST 60	Sun-22-Aug	Mon-23-Aug	Tue-24-Aug	Wed-25-Aug	Thu-26-Aug	Fri-27-Aug	Sat-28-Aug	Sun-29-Aug	Mon-30-Aug	Tue-31-Aug	Wed-01-Sep	Thu-02-Sep	Fri-03-Sep	Sat-04-Sep
Bids Zero Value (T-7)		Mon P2T6b wk 3	Tue P2T6b wk 3	Wed P2T6b wk 3	Thu P2T6b wk 3	Fri P2T6b wk 3								
Random Incremental Bid @ £/MWh Set by scarcity model		Fri P2T6b wk 2	Mon P2T6b wk 3	Tue P2T6b wk 3	Wed P2T6b wk 3	Thu P2T6b wk 3			Fri P2T6b wk 3					
Random Incremental Bid @ £/MWh Set by scarcity model		Thu P2T6b wk 2	Fri P2T6b wk 2	Mon P2T6b wk 3	Tue P2T6b wk 3	Wed P2T6b wk 3			Thu P2T6b wk 3	Fri P2T6b wk 3	<u>.</u>	<u>.</u>		
Random Incremental Bid @ £/MWh Set by scarcity model		Wed P2T6b wk 2	Thu P2T6b wk 2	Fri P2T6b wk 2	Mon P2T6b wk 3	Tue P2T6b wk 3			Wed P2T6b wk 3	Thu P2T6b wk 3	Fri P2T6b wk 3			
Random Incremental Bid @ £/MWh Set by scarcity model		Tue P2T6b wk 2	Wed P2T6b wk 2	Thu P2T6b wk 2	Fri P2T6b wk 2	Mon P2T6b wk 3		4	Tue P2T6b wk 3	Wed P2T6b wk 3	Thu P2T6b wk 3	Fri P2T6b wk 3		
Final Max Bid at Intraday (Before 10:00) @ £/MWh Set by scarcity model		Mon P2T6b wk 2	Tue P2T6b wk 2	Wed P2T6b wk 2	Thu P2T6b wk 2	Fri P2T6b wk 2			Mon P2T6b wk 3	Tue P2T6b wk 3	Wed P2T6b wk 3	Thu P2T6b wk 3	Fri P2T6b wk 3	
Bid Delivery Day		Mon P2T6b wk 2	Tue P2T6b wk 2	Wed P2T6b wk 2	Thu P2T6b wk 2	Fri P2T6b wk 2		0	Mon P2T6b wk 3	Tue P2T6b wk 3	Wed P2T6b wk 3	Thu P2T6b wk 3	Fri P2T6b wk 3	



WPD

Transforming

Test 5

3 Weeks

Test 4

3 Weeks

Test 3

3 Weeks

Test 2

3 Weeks



# Outline

AGENDA ITEM	Duration	
Introduction	5 Mins	
Phase 2 Overview	5 Mins	
Onboarding and Customer Journey	5 Mins	
Sub Tests		
Key Principles	5 Mins	
<ul> <li>Tests 1 – 6 Detail</li> </ul>	35 Mins	
Feedback	10 Mins	
Information Service	5 Mins	
NODES Platform Developments	5 Mins	
Questions	15 Mins	
westernpower.co.uk/innovation		3.



# Phase 2: Participants Trial Plan Check In

- Are there any perceived issues with this trial plan?
- Weekend Bids?

**IntraFlex** 

• Any other comments?





# Outline

AGENDA ITEM	Duration	
Introduction	5 Mins	
Phase 2 Overview	5 Mins	
Onboarding and Customer Journey	5 Mins	
Sub Tests		
Key Principles	5 Mins	
<ul> <li>Tests 1 – 6 Detail</li> </ul>	35 Mins	
Feedback	10 Mins	
Information Service	5 Mins	
NODES Platform Developments	5 Mins	
Questions	15 Mins	
westernpower.co.uk/innovation		

## IntraFlex Phase 2 – Optional BRP Information Service



- Seeks to enable BRPs to better manage volume impact of DNO procuring flexibility from independent aggregator. I.e. BRP can avoid potential imbalance charges/better optimise its position.
- Entirely optional. Both BRP and the relevant aggregator need to be part of the trial.
- BRP gets view of traded volumes per half hour that impact it, on an anonymous basis.



Fransforming the elec



# Outline

AGENDA ITEM	Duration
Introduction	5 Mins
Phase 2 Overview	5 Mins
<ul> <li>Onboarding and Customer Journey</li> </ul>	5 Mins
Sub Tests	
Key Principles	5 Mins
<ul> <li>Tests 1 – 6 Detail</li> </ul>	35 Mins
Feedback	10 Mins
Information Service	5 Mins
NODES Platform Developments	5 Mins
Questions	15 Mins
westernpower.co.uk/innovation	



## **Phase 2 Initiatives: NODES Platform Developments**

Initiatives – Placing, editing and viewing orders				
✓ All or Nothing	<ul> <li>✓ Ability to post orders for multiple delivery periods via UI</li> </ul>	✓ Pricing in £/MWh		
✓ Ability to Edit orders	<ul> <li>✓ Improved notifications when WPD places bids</li> </ul>	<ul> <li>UI tweaks to flexibility market view (sorting by date, price, volume)</li> </ul>		
✓ No asset – no order restriction	✓ No baseline – no order restriction			

Initiatives – Operational processes			
<ul> <li>✓ More regular settlement reports</li> </ul>	<ul> <li>Improved processes around unexpected downtime</li> </ul>	<ul> <li>✓ Utility Contract Regulation (UCR) compliance</li> </ul>	

## IntraFlex Phase 2 Initiatives: NODES Platform Developments

#### Also being considered - if not for Phase 2 then in the long run

✓ Full settlement reports available via platform

✓ Further tweaks to UI

#### Initiative – Clarifications in UI and Operational Guide

- Clarifications around time zone, e.g. GMT or BST or UTC
- Clarification that dispatch notifications apply to trades entered into after setting is changed





# Outline

AGENDA ITEM	Duration	
Introduction	5 Mins	
Phase 2 Overview	5 Mins	
Onboarding and Customer Journey	5 Mins	
Sub Tests		
Key Principles	5 Mins	
<ul> <li>Tests 1 – 6 Detail</li> </ul>	35 Mins	
Feedback	10 Mins	
Information Service	5 Mins	
NODES Platform Developments	5 Mins	
Questions	15 Mins	
westernpower.co.uk/innovation		

## IntraFlex Questions









# IntraFlex Questions from Attendees

- Is the new pre-qualification form (and the other Utility Contract Regulation changes you are introducing) similar to Dynamic Purchase Systems (DPS) that the Energy Networks Association (ENA) refer to in their flexibility procurement work?
  - ✓ Yes. The process is that flexibility service providers pre-qualify by signing the Membership Agreement with NODES and by undertaking a test trade, which demonstrates that the participant is ready to act on NODES platform and can submit metering values to the metering system. After the test trade the flexibility service provider then submits the pre-qualification form where they confirm that relevant pre-requisites are met.
  - ✓ After this the participant becomes part of a pool of qualified parties. WPD then enters into an agreement with the pre-qualified parties when WPD accepts the participant's first asset on the platform, which is reflected in the updated Rulebook. Transactions between WPD and the provider take place under that agreement.
- 2) Will the value of bids be greater than £300 MWH
  - Possibly during test 4 as this is using a volume scarcity pricing model which may push the bid value slightly over the £300 MWH.



# IntraFlex Questions from Attendees

- 3) Why would there be a need to vary the change to bid posting times as seen in test 3.
  - This has been put in as a tool that can be used if it becomes apparent that offers are being placed to game the system. By varying the posting times this introduces jeopardy for the FSP that any gaming offer placed could be cleared.
- 4) How will the FSP be notified if an offer has been accepted.
  - ✓ There will be a successful trade notification and there is the option when placing the order to get the platform to send multiple notifications at differing number of days/hours/minutes before the delivery window.
- 5) Can alternative Baselines been uploaded via the Api
  - ✓ Yes they can please liaise with Sofia at NODES





## IntraFlex Recording of Webinar

• Below is the link to the recording of the webinar if you need to review again.

https://transcripts.gotomeeting.com/#/s/767cb1f815603964b9bf97a3d55d941532393676773cf88eb9f0b6c58 8d0e666





## THANK YOU FOR YOUR PARTICIPATION



