

# CMP316: TNUoS Arrangements for Co-located Generation Sites

Monday 27<sup>th</sup> September 2021

Nicky White, NGENSO



Introduction

CMP316: TNUoS Arrangements for Co-located Generation Sites

Introductory webinar to explain the Proposal [here](#).

Please see historic Workgroup material Apr-19 to Sep-19

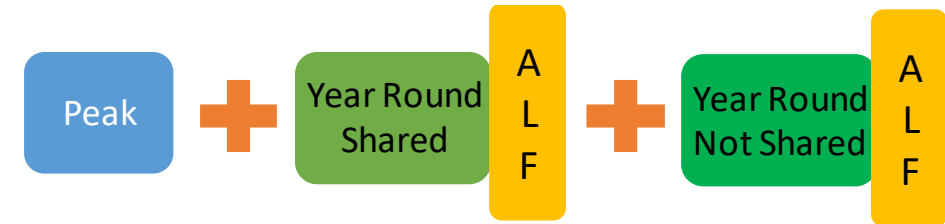
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# What defect does the modification seek to address?

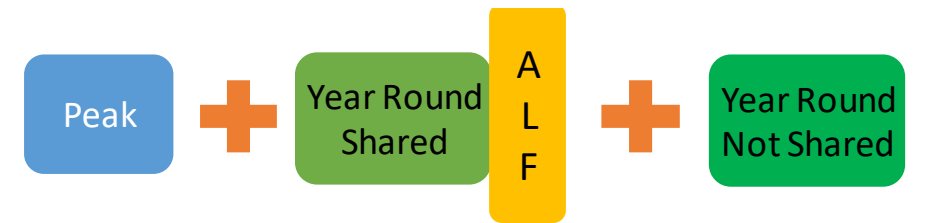
- The non-dominant technology type is not considered in the calculation process at a co-located site. This means there is the potential to improve the cost reflectivity of the charging arrangements by catering for these particular configurations in the CUSC.

Transport Model Categories		
Tariff Model Categories	Co-Location and Predominant Fuel Type	
	Carbon	Low Carbon
	Conventional	Gas
	Intermittent	Wind

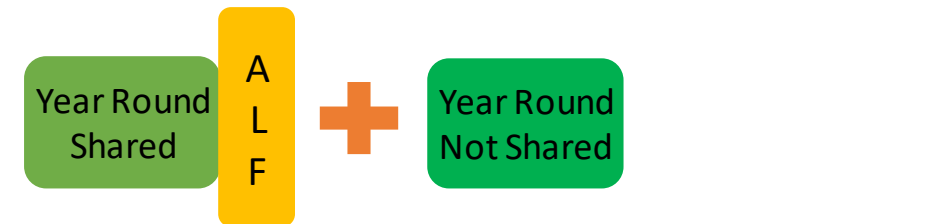
## Conventional Carbon Generation:



## Conventional Low-Carbon Generation:



## Intermittent Generation:



# What's in scope, what's out of scope?

## • In Scope

- 'Co-located' generation only – where a single Power Station has multiple generation technologies
- All technology types/combinations
- Any number of co-located technology types
- New stations (i.e. built with co-located generation) & retrofitted stations (i.e. built with a technology with a other technologies added on)

## • Out of Scope

- Shared Access connections – where two or more Users share a connection – as covered in Access & Forward Looking charges SCR
- 'Fundamentals of TNUoS' – Who does/doesn't pay, how the charge is calculated (per technology type) etc

## Potential Solution: – “Pro-Rata” ing TEC

- Apportioning TEC between different components on the site using a new “multi-fuel site” formula
- Impact for Section 11 and other template changes

### Pro Rata Formula

$$MFSTEC_{is} = \frac{CAP_i}{\sum_{i=1}^n CAP_i} \times TEC_s$$

Where;

MFSTEC<sub>is</sub> = Multi-Fuel Sites' TEC for technology i at station s

CAP<sub>i</sub> = Capacity for technology i

TECs = TEC of Power Station as defined in the Connection Agreement

n = number of different technologies on site

### Example of site with TEC = 500MW



$$MFSTEC_{CCGTs} = \frac{500}{600} \times 500 = 416\frac{2}{3} \text{ MW}$$



$$MFSTEC_{pvs} = \frac{100}{600} \times 500 = 83\frac{1}{3} \text{ MW}$$



# Questions

A man with glasses and a beard is looking out of a window at night. The scene is dimly lit with blue and purple ambient light. The man is wearing a light-colored t-shirt. The background shows a city street at night with blurred lights and a car.

- Issues / concerns?
- Any potential alternative options?
- Analysis required?