# Working session toward the finalization of the project sheet

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TYNDP 2018: Project Promoters Workshop on Project Sheets finalization

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- Platform ready
- Platform will be soon ready for

### Platform ready Deadline 06/06//2018

- PCI label (3<sup>rd</sup> list 23 November 2017)
- Last approved national development plan/number and page
- How the project fits to the regional trend
- CBA Disclaimer
- Explanation of the project CBA benefits
- Uncertainty range/complexity factor for CAPEX and explanation

## Platform ready: PCI label (3rd list 23 November 2017) Deadline 06/06//2018

- Here you need to tick if your project received the PCI label of the 3<sup>rd</sup> list of November 2017
- Provide the id number of your project in the PCI list
- Here we ask only about the 3<sup>rd</sup> PCI list (not the ones before)

# Platform ready: Last approved national development plan/number and page Deadline 06/06//2018

- You need to provide input as comma separated text
- Example in case your project is in a NDP: NDP1, Country, NDP number/year, page (first time the project is descripted
- Example for a project in several NDPs: NDP1, Country 1, NDP 1 number/year, page (first time the project is descripted) of NDP 1, NDP 2, Country 2, NDP2 number/year, page (first time the project is descripted) of NDP 2
- Example for a project that is not in NDP: provide explanation of why not (e.g. not in NDP as currently is only in the draft NDP OR not in NDP as the NDP is will be updated in 3 years and the project will opt to be included in the next NDP)

## Platform ready: How the project fits to the regional trend Deadline 06/06//2018

Here you can add an additional comment on top of the needs already declared.

- You will need to extract the key messages/drivers of the Regional Investment Plans that are matched by your project.
- Region BS: select among the drivers of Section 1.2: Key messages of the region
- Region CCE: select among the key messages of Section 1.2: Key messages of the region
- Region CCS: select among the main drivers of Section 1.2: Key messages of the region
- Region CSE: select among the main drivers of Section 1.2: Key messages of the region
- Region CSW: select among the main findings of Section 1.2: Key messages of the region
- Region NS: select among the challenges of Section 1.2: Key messages of the region

## Platform ready: CBA Disclaimer Deadline 06/06//2018

- Any disclaimer we find useful to have for this specific project
- Optional

### Platform ready: Explanation of the project CBA benefits Deadline 06/06//2018

- This cell is to be used by promoter to comment, give context to and defend the CBA results presented above
- Optional
- Guidelines examples TYNDP 2016

https://docstore.entsoe.eu/Documents/TYNDP%20documents/TYNDP%202016/projects/P235.pdf

Individualized support available for 3pp on request!!

## Platform ready: Uncertainty Range and explanation Deadline 06/06//2018

- Once provided the CAPEX you need to provide the Uncertainty Range in % to your estimation
- Mandatory
- There is no constraint on the size of the range but an explanation needs to be provided
- The wider the range will be from 10% higher will be the likelihood for ENTSO-E
  to further investigate this input
- in case a wide range is due to uncertainty on the technology, you need to technical specification on one technology and it will be the one valid for the whole duration PCI process

## Platform ready: Complexity factir and explanation Deadline 06/06//2018

- To be provided only if you don't have yet a CAPEX estimation for your project under consideration
- Contact us if this is the case!
- If a project is under consideration but the promoter has already a cost estimation, he does not need to relate that to our standard cost and complexity factor
- Guidance on complexity factor soon

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- Location of the project on the map
- CBA indicator B4. Societal well-being as a result of RES integration and a change in CO2 emissions
- Alternative Indicators
- Additional benefits
- Flexibility indicator for Storage Projects only

CBA indicator B4. Societal well-being as a result of RES integration and a change in CO2

#### **emissions**

- An opportunity to project promoters to report any measurable impacts of RES integration and variation in CO<sub>2</sub> emissions, which go beyond the effects already captured by indicator B1.
- The impact on societal well-being, inter alia:
  - long-term strategic energy independence objectives,
  - o limiting the increase in global temperature and sea level rise
  - the effects from changed land use
  - Impact of emissions/Res integration on public health
  - Impact of emissions/Res integration on the environment

#### CBA indicator B4. Societal well-being as a result of RES integration and a

#### change in CO2 emissions

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Necessary info to provide CBA indicator B4. Societal well-being as a result of RES integration and a change in CO2 emissions

#### Valorisation

- Monetarised value [MEuro]/year
- o If not possible Quantified value mention also the unit e.g. [MWh]
- If not possible Qualitative information (concise)

Necessary info to provide CBA indicator B4. Societal well-being as a result of RES integration and a change in CO2 emissions

#### Justification 1/2

- Which share of the benefit addresses EU countries?
- Name of the study the value above resulted from
- Main assumptions of the study (copy the relevant text here and include the reference page and chapter)
- Who has conducted the study

Necessary info to provide CBA indicator B4. Societal well-being as a result of RES integration and a change in CO2 emissions

#### Justification 2/2

- Year of the study
- Study horizons
- Did any national authority approve the study? Which NRA?
- Link to the study or Upload the document
- Link to a study from a well-known institute used as solid base for the indicator provided

### Platform will be ready soon: to finalize the input of Additional Benefits Deadline 06/06//2018

Remember: for this phase you can opt for selecting the additional benefit only

#### Valorisation:

- Monetarised value [MEuro]/year
- If not possible Quantified value mention also the unit e.g. [MWh]
- If not possible Qualitative information (concise)
- Justification for the absence of monetarised value

### Platform will be ready soon: to finalize the input of Additional Benefits Deadline 06/06//2018

#### Justification:

- Which share of the benefit addresses EU countries?
- Name of the study the value above resulted from
- Main assumptions of the study (copy the relevant text here and include the reference page and chapter)
- Who has conducted the study
- Year of the study
- Study horizons the years the study looked into
- Did any national authority approve the study? What NRA?
- Link to the study or Upload the document

#### Platform will be ready soon: to finalize the input of Alternative **Indicators** Deadline 06/06/2018

#### Valorisation:

Same inputs needed for an Additional Benefit without the box for the qualitative information

#### Justification:

Same inputs needed for an Additional Benefit with the addition of Link to/Upload of a document with methodology (copy the relevant 21 text here and include the reference page and chapter)

### Platform will be ready soon: flexibility indicator for storage Deadline 06/06/2018

KPI	Score	Motivation
Response time – FCR <sup>34</sup>	0 = more than 30 s += less than 30 s ++= less than 1 s	30 s : ramp time of FCR 1 s : typical inertia time scale
Response time – including delay time of IT and control systems	0 = more than 200 s += less than 200 s ++= less than 30 s	200 s: FRR <sup>35</sup> ramp time 30 s: FCR ramp time
Duration at rated power – total time during which available power can be sustained	0 = less than 1 min += less than 15 min ++= 15 min or more	1 min : double the response time of FCR 15 min : Typical PTU <sup>36</sup> size
Available power – power that is continuously available within the activation time	0 = below 20 MW += 20 - 225 MW ++= 225 MW or higher	20 MW: 1-2% of a typical power plant is reserved for FCR and reachable from a project perspective 225 MW: PCI size
Ability to facilitate sharing of balancing services on wider geographical areas, including between synchronous areas		Suggestion to remove as this is too specific and difficult to quantify

<sup>34</sup> FCR = frequency containment reserve

<sup>35</sup> FRR = frequency restoration reserve

<sup>&</sup>lt;sup>36</sup> PTU = program time unit

### Platform will be ready soon: flexibility indicator for storage Deadline 06/06/2018

#### Choose option for each of this voice:

- Response time FCR (Frequency Containment Reserve): choose an option
  - More than 30 s
  - Less than 30 s
  - Less than 1s
- Response time including delay time of IT and control systems: choose an option
  - More than 200 s
  - Less than 200 s
  - Less than 30 s

### Platform will be ready soon: flexibility indicator for storage Deadline 06/06/2018

#### Choose option for each of this voice:

- Duration at rated power total time during which available power can be sustained: choose an option
  - Less than 1 min
  - Less than 15 min
  - 15 min or more
- Available power power that is continuously available within the activation time: choose an option
  - Below 20 min
  - 20 225 MW
  - 225 MW or higher

### Questions?