

Navigating the Landscape: Business Opportunity Analyser for Identifying Promising PTX Value Chains

Webinar, 21 June 2023

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by the German Bundestag

Agenda

Agora Energiewende
PTX BOA – a general introduction

Oeko-Institut
Part 1: Presentation of the tool
What's in, what's out?

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Part 2: Presentation of the tool
A guided walk through the PtX BOA

Plenum & chat
Q & A session

Oeko-Institut e.V.

Who are we?



- **Independent research organisation**
- More than 200 people based in Freiburg, Berlin and Darmstadt in Germany, **focussed on sustainable transition**
- Our scientists work to craft an energy system that does without nuclear power, relying instead on **efficient use of energy & on the use of low-carbon and renewable sources**
- Project teams integrate the expertise of **engineers, natural scientists, economists and social scientists**
- **Clients include national, regional and local authorities, companies and corporations, international institutions** such as the European Commission, the European Parliament and development banks, as well as environmental NGOs

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Part I – Presentation of the tool

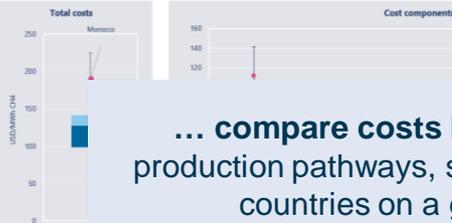
What's in, what's out?

The PTX BOA helps you to...

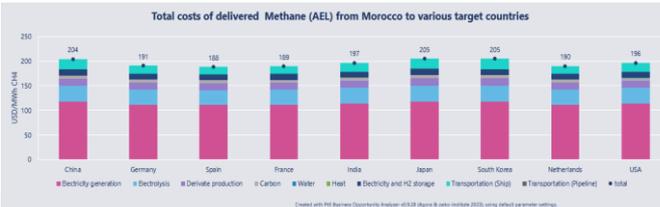
... get an impression of total costs of delivered hydrogen and various derivative molecules from your country of interest to a potential demand country



... analyse the cost components of selectable process chains and production routes



... compare costs between various production pathways, supply and demand countries on a global scale



... adjust data points based on your own experience

VIEW & MODIFY SPECIFIC COSTS

Change input parameters for all countries or for the selected country.

default scenario | **user modification** | **currently used data**

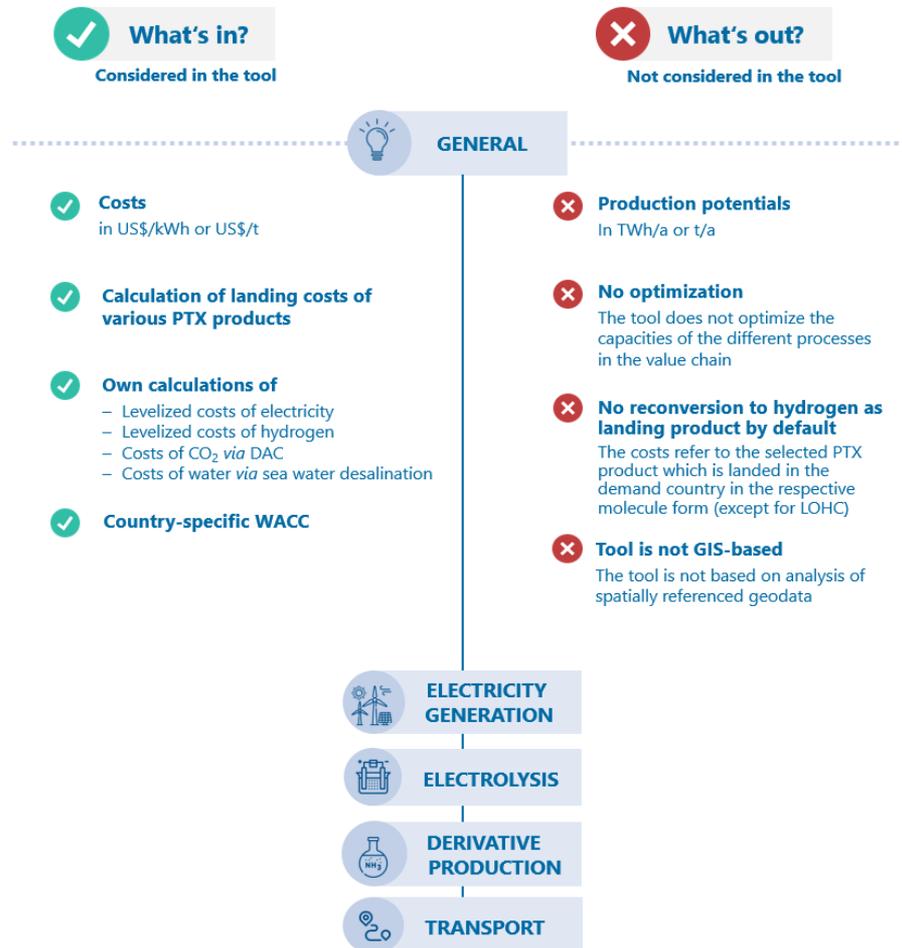
Parameter	Unit	currently used data	user modification	default scenario (Morocco)	range
SIICC	percent	17%	17%	17%	17% - 27%

... access comprehensive additional context information, e.g. on sustainability issues and certification

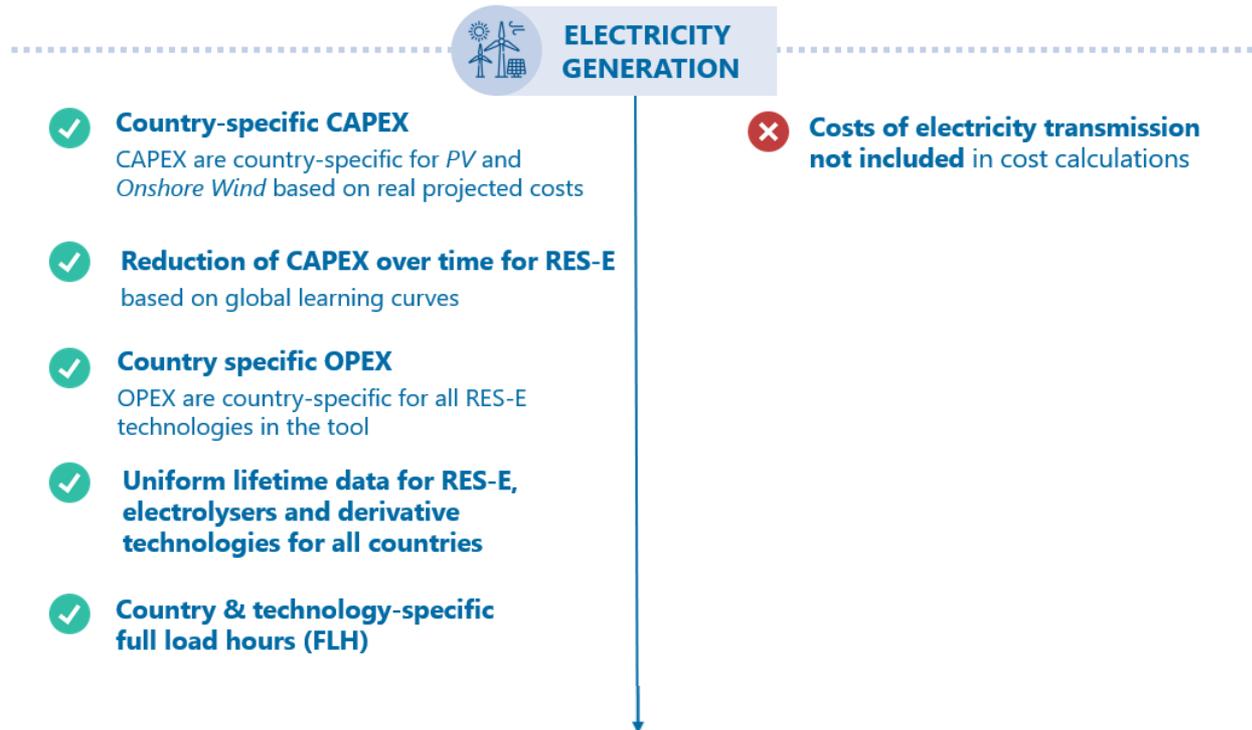
SPAIN		Back to dashboard	Information as of 2024/03/23
DEMAND	Projected H2 demand (2030)	n/a	
	Targeted sectors	Main: Industry Transport Export Secondary: Power	
H2 STRATEGY	Advanced strategies / documents	October 2020	Hydrogen Roadmap
	Responsible authorities	Ministry of Environment, Ministry for the Ecological Transition and Demographic Challenge, MITECO	
CERTIFICATION (Sub-information)	Certification / regulation frameworks	RED II CertiHy GCC PLUS	Governmental regulation which defines a list of economic activities classified as environmentally sustainable in the EU Voluntary standard that specifies for hydrogen and its derivatives what criteria have to be fulfilled to qualify as renewable in European legislation Established standard in Europe to certify sustainable low-feedstocks; it has expanded its portfolio and now also covers the certification of green hydrogen
	Prerequisites or additional information	Idea of creating a "Green Hydrogen for Spain" label that could be used commercially, safeguarding its competitiveness in international markets	
TRADE CHARACTERISTICS	Specificities in H2 trade (as mentioned in H2 strategies)	EU economy High Apraximus of domestic projects: 25 Spanish H2 projects submitted to the first call of the strategic instrument Important Project of Common European Interest (IPCEI)	Both reporting and exporting country for H2 and derivatives Considerable domestic industrialised electrolyser capacity of 4.5 GW foreseen by 2030
INFRASTRUCTURE	EWG report milestones H2 pipeline projects	Expanding In development Plans to connect to France & Germany and export domestically produced hydrogen through Europe's first offshore green H2 only pipeline (PCH4b)	(What is a IPCEI?)

PtX BOA – What’s in, what’s out?

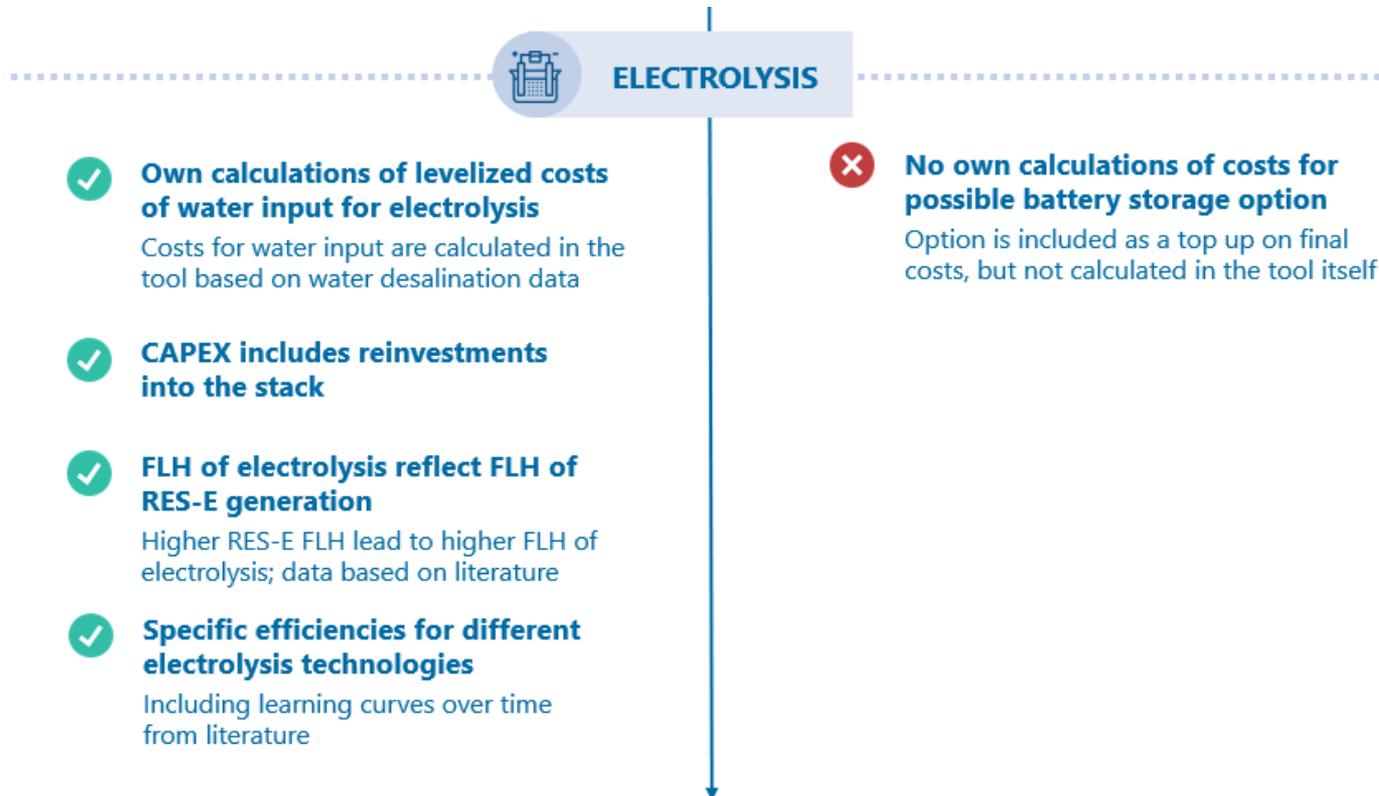
PtX BOA – What’s in, what’s out?



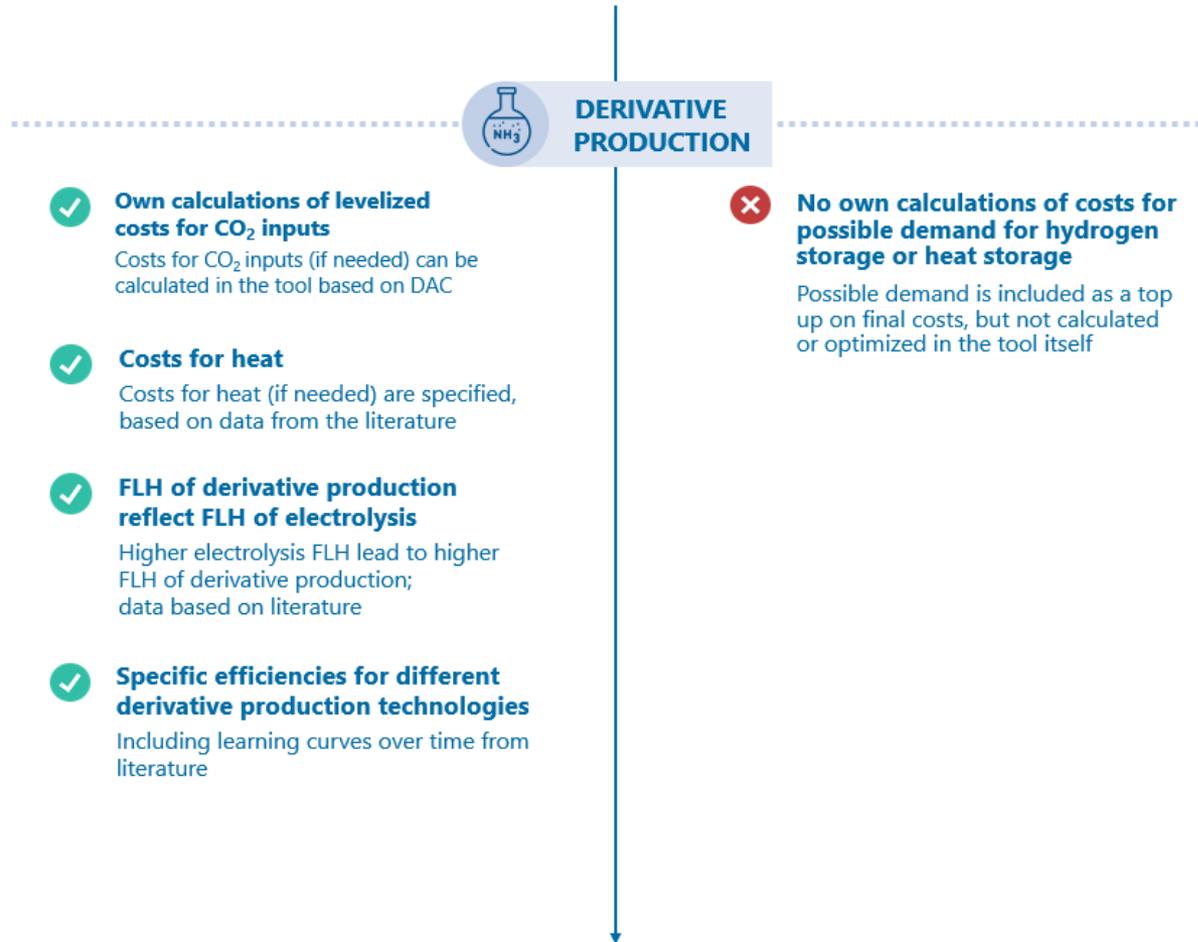
PtX BOA – What’s in, what’s out?



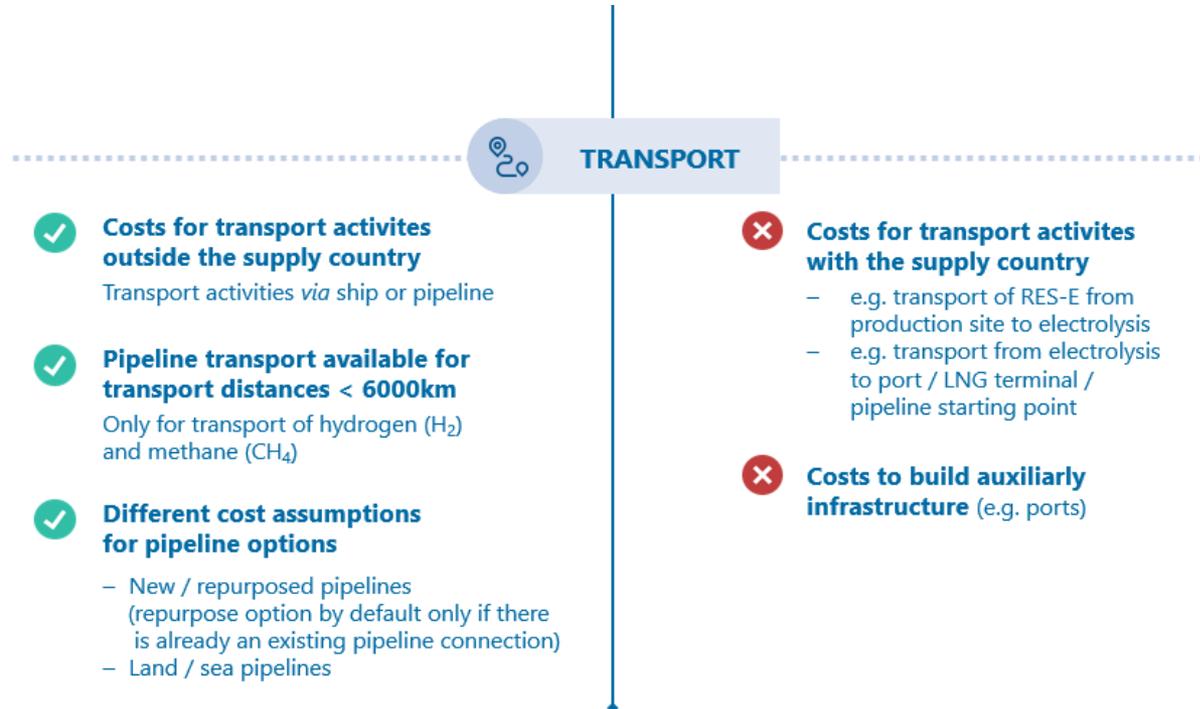
PtX BOA – What’s in, what’s out?



PtX BOA – What’s in, what’s out?

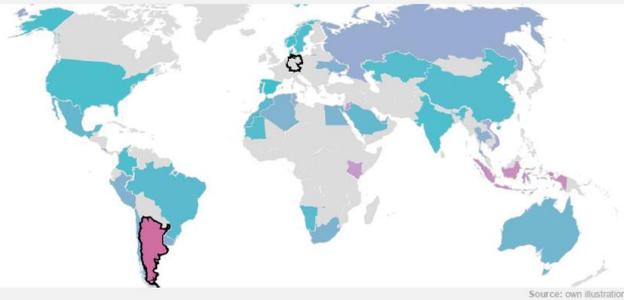


PtX BOA – What’s in, what’s out?



Further information on the PTX BOA

www.oeko.de



Source: own illustration¹

PTX Business Opportunity Analyser (BOA): Data Documentation

Documentation of data sources and data processing

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- **Detailed documentation of calculations, sources and methods** underlying the data used in the PTX BOA
- **Will be available** as supplementary information to the tool on the PTX BOA website

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Part II – Presentation of the tool

A guided walk through the PtX BOA

Plenum & Chat

Q & A session

Feel free to post your questions in the Q & A box – we are happy to answer them!

Free download: <https://www.agora-energiewende.de/en/publications/business-opportunity-analyser-boa>

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