

## INTERNATIONAL POWER-TO-X-HUB Catalysing defossilisation globally

# PtX.Project Finance training



The global economy needs to move away from fossil fuels. Countries are preparing to make their economies resilient for the future. Power-to-X (PtX) projects play a crucial role in the defossilisation of hard-to-abate industries and have the potential to stimulate local economies. However, the financing of PtX projects is much more complex and challenging than, for example, renewable energy projects alone.

The value chains for PtX are much longer and companies are less experienced. This increases the risk and cost of PtX projects. A solid understanding of project finance is essential to secure funding for these high-cost projects.

*Effective project financing is critical to a successful PtX market ramp up.*

### Discover the basics of project finance applied to PtX projects with this training!

The PtX.Project Finance training provides a comprehensive overview of the fundamentals of project finance and how to set it up for PtX projects.

It outlines the challenges of project finance faced by PtX projects, which are characterised by a lack of track record and the need for significant initial investment. Particular focus is given to the risks involved, how they increase the cost of financing and develop during time. Also, the roles and interest of different stakeholders is discussed. In its interdisciplinary approach, the training covers financial fundamentals, contractual requirements and the various financial and support instruments available, as well as the concept of blended finance. The final module of the training discusses the bankability of projects using Sustainable Aviation Fuels as an example.

After the training, participants will have a solid background in PtX finance and will be able to move on to concrete modelling exercises (not part of the course).

### Training outline

0. Introduction
1. Basic financial terms & concepts
2. Developing PtX projects
3. Stakeholders and their interests
4. Project finance and contracts
5. Risk analysis and mitigation
6. Quantitative evaluation of PtX project finance
7. Basics of financial modelling (teaser)
8. Bankability aspects (examples)

#### Duration and format:

2 hours – 2 days | on site, hybrid or virtual

Training sessions can be tailored with focus on specific interests of the target groups.

#### Target audience

- Decision-makers in public ministries, e.g., energy, environmental, economic, infrastructure (OECD, non-OECD)
- Project developers (small/mid-size)
- Companies (public/private), e.g., oil & gas, mining
- Project managers, consultants
- NGOs

## What does the International Power-to-X Hub offer?

- ✓ Access to cutting-edge research and insights on PtX
- ✓ Training on PtX for key decision makers
- ✓ Exchange platforms for PtX experts & enthusiasts
- ✓ Advisory on regulatory frameworks, partnerships, and financing for PtX projects
- ✓ Access to 120 GIZ cooperation countries

## What is Power-to-X?

To reach climate neutrality by 2050, we must transform our economies to operate emission-free fast. While 100 % renewable energy is key for this transformation, some industries and transport sectors cannot yet directly use renewable electricity to become climate neutral. Until they can, Power-to-X (PtX) is the missing link.

PtX enables us to produce anything historically dependent on fossil feedstocks, now using renewable electricity. These sustainable, climate neutral e-fuels and chemicals can defossilise high-emission industries, including the chemical, fertiliser, steel, and cement industry, as well as aviation and maritime transport.

PtX offers a tremendous potential for many countries all over the world. Due to their favorable conditions for renewable energy production, they can leverage new business opportunities with PtX and become frontrunners in emerging global PtX markets.

## The PtX.Academy

Since 2019, the International PtX Hub offers trainings and workshops for decision-makers on green hydrogen and PtX. The goal is to train and connect a critical mass of people who are enthusiastic about renewable PtX and can accelerate the uptake of PtX production, usage, and trade in their countries.

To date, the PtX Hub has delivered more than 100 trainings in 27 countries to more than 1,800 learners.

The training offer consists of our standardised **Renewable Power-to-X Basic Training**, add-on modules for 7 topics, 3 e-learning courses and a Train-of-Trainers programme, which has already certified 100 trainers. The PtX.Community connects the training alumni and enables an international exchange of experts around the globe.

The on-site trainings are organised at the request of GIZ projects and political partner institutions in selected countries. If you are interested in individual training, please check out our e-learning courses.

### Add-on modules:

- Sustainability
- Aviation
- Shipping
- Sustainable Chemistry and Power-to-Chemicals
- Certification of PtX products
- PtX project finance
- Carbon Border Adjustment Mechanism (CBAM)
- PtX safety
- Coming soon: Green steel and green fertiliser

### Free e-learnings (self-paced):

- Renewable PtX Basic Training
- PtX.Sustainability & EESG Framework
- Green Hydrogen & PtX Certification



More information on the training offers:  
<https://ptx-hub.org/academy/>

## Contact

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 [LinkedIn @ International Power-to-X Hub](#)

Learn more about the project activities on the website:  
[www.ptx-hub.org](http://www.ptx-hub.org)