



The energy
blockchain
platform.

PYLON[®]
Network

Pylon Network use cases

Some things we do differently

[Pylon Network](#) has been a community-based project since its inception.

The team's mission is to be the reference for data accessibility, based on data neutrality and digitization in the energy transition, which we see as a catalyst for simplifying the energy market.

We are driven by our vision to make self-consumption accessible to 100% of the market, through the empowerment of end consumers. This will only be possible by empowering all the "crazy ones" who are changing the way that energy is perceived today, through digital tools and services capable of simplifying all interactions with the end consumers.

Pylon Network has been continuously interacting with energy sector stakeholders, which allows us to validate its use cases applying a **bottom-up approach to empower citizens** by developing digital tools and services **with** end consumers, not **for** end consumers.

The Pylon team has identified applicable use cases in the newly shaped market of Collective Self-Consumption (CSC): the first step towards our vision of enabling access to p2p energy models for 100% of the market, through the collectivization of renewable energy assets and the simplification of interactions with end consumers.

Pylon Network has incorporated [PylonData](#), which is the first company to develop services on top of Pylon Neutral Data Hub (NDH) and validate new use cases for the energy sector (starting in Q1 of 2021).

Pylon Network is our legacy to the energy sector for the empowerment of energy communities and their increased participation in the energy markets.

We see technology as the medium for innovation, not the enabler. The enablers of innovation are the people. People who dedicate their lives in positive impact and have a passion for improving people's lives. In this sense, Pylon Network blockchain technology with its open-source license was built and designed to be the medium in which people's actions are resonating and their impact is amplified.

We are a young and ambitious team that will change the way the energy market is perceived by end consumers.

We see energy differently and we pursue our vision in new ways.

The Pylon Network Team



The two use cases that will be demonstrated on Pylon Network over the next year

We are determined to be the benchmark of digital tools for the energy market and we always apply the same strategy for achieving it: learn from the market, our customers, and the end consumers by deploying Minimum Viable Products (MVPs) that later are turned into commercial products.

Our implementation and marketing strategy is wholly formed by the market forces and the real needs of end consumers.

Since 2017 we have been working with end consumers and energy communities developing simple, automated, and transparent digital solutions for their needs.

Over the following year (2021) the PYLON team will be demonstrating to the public two use cases, which have been validated over the past months via its marketing efforts and interactions with end consumers and energy communities.

Both demonstrations will take place before the launch of MainNet and during the process of whitelisting for the first federated nodes of Pylon Network.

Our main priority is to onboard as many communities as possible, making the process easy, transparent, and clearly demonstrating the benefits to all interested parties. In that direction, we will soon launch the [PYLONcommunity](#) portal, which will be the foundation of the ecosystem of the Pylon Network.

Our aim is to empower as many Energy Communities as possible and enable them to implement their vision and test the use cases. To achieve that the participation will not only be open to every community, but we will also guarantee a free license for one year to remove any entry barriers.

We see the onboarding of Energy Communities in Pylon's ecosystem as of strategic importance to empower Energy Communities in the energy markets and, to explore together with them the blue ocean of services and use cases that is formed around the end consumers (e.g. aggregation, virtual power plants, demand response, collective self-consumption, peer-to-peer trading, etc.).

Use Case #1: Storing the authorizations of representation provided by end consumers

Problem: energy data silos are impeding the [true potential of digitalization in the energy sector](#). The inability to share data is limiting the development of digital services that can [empower end consumers](#) and energy communities to [participate in the energy markets](#).

Solution: giving the ability to consumers to share their data with companies that can utilize it and offer added-value services back to the consumers.



The first use case of Pylon Network will focus on storing the data sharing consent of consumers (*mandate of representation*), between them and other energy stakeholders (e.g. Energy Service Companies, Municipalities or Administrations).

Demonstration of Use Case #1

A demonstration page accompanying this document and offering the chance to test this use case on Pylon Network's open source blockchain, **is released today, 30th of December 2020**.

- Users that wish to **upload energy data on Pylon's blockchain demo**, need to complete the form by accessing [this page](#). Instructions for both Spanish and non-Spanish citizens are provided in it.
- **All transactions with Pylon's NDH can be tracked** via [Pylon's blockchain explorer](#). Every time that energy data are uploaded on Pylon's NDH, using the PylonData service, the transaction appears in the next confirmed block of Pylon's blockchain - with the corresponding PYLNC fee for the transaction.
- **A publicly accessible visual dashboard has also been created** ([here](#)), to offer a more user-friendly monitoring / visualization experience. The demo dashboard is using the open-source software Kibana, to extract and present the important information from Pylon's explorer.

The following credentials will be needed for the log in process:

- **Username:** community
- **Password:** demo_community

Use Case #2: Recording operational transactions between CSC stakeholders

The problem: The [current digital infrastructure is placing barriers](#) in the [efficient circulation of energy data and overall interoperability](#) between the actors that surround the operation of Collective Self-Consumption (CSC) installations. This causes inefficiencies and uncertainties in their design, operation, and financial performance.

The solution: The Neutral Data Hub of Pylon Network is the missing link for the necessary multi-agent cooperation around CSC schemes. Pylon Network becomes a functional tool in the digital transformation of the energy sector, by helping in the facilitation of energy-related data sharing & tracking (consumption/production information, consents, and contracts), without depending on third parties.

The second use case of Pylon Network will demonstrate the recording of all operational flows of energy-related data in CSC schemes between the multiple stakeholders that surround its operation.

The second use case will be demonstrated in the Q1-2021. For more information about this use case, you can refer to our explanatory videos [here](#).



We will continue to explore more use cases and – as always – validating with the market.

In front of us we have an equally exciting and challenging period.

Participation of consumers in the energy markets is key for a fair energy transition and the years to come are crucial for the successful implementation of consumer-centric models. And until now, the sector has been unable to seduce the end consumers.

Pylon's mission is to make the energy sector easy, accessible, and transparent – through digitalization – for the participation of 100% of the market in self-consumption schemes.

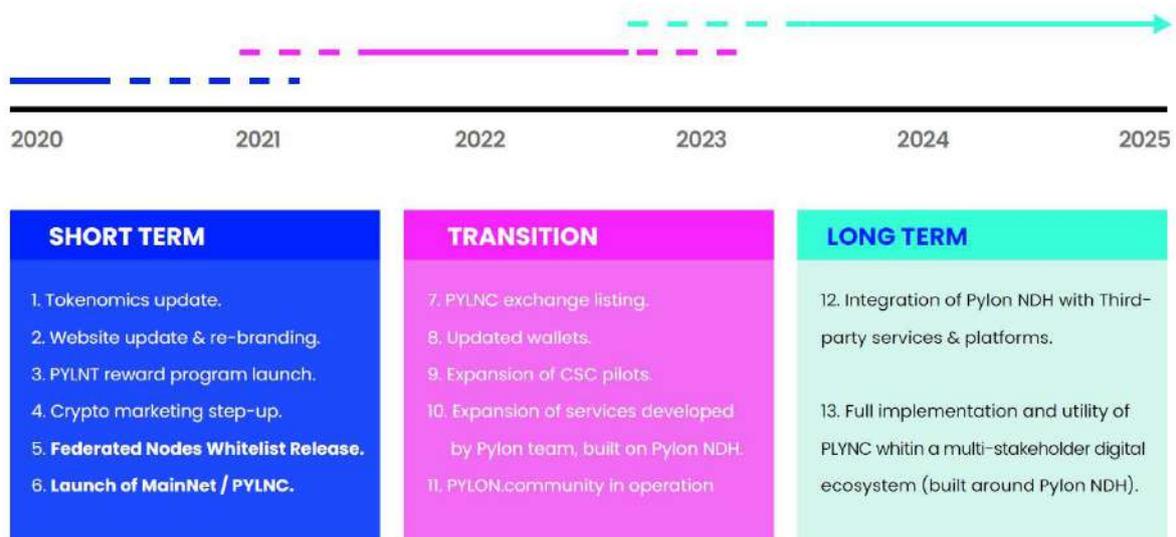
To achieve that we will continue to apply our market-driven approach, changing the prominent doctrine applied to the energy markets, until now.

Instead of developing tools and services for the consumers, we develop them with the consumers, while passing this knowledge to the companies that interact with them. In other words, instead of trying to educate the consumers, our approach is to educate the companies, helping them adopt their services and market approach to the consumers' needs.

We consider this path as the only way to offer real value to all stakeholders of the sector and our project.

We are determined to achieve that – and go beyond that – by following the same approach and by instigating the creation of a digital service ecosystem over the next five (5) years.

This period will be characterized by the rise of consumer-centred energy markets and energy-as-a-service models, catalysed by new actors and business models such as local energy storage, aggregation and demand response schemes.



A new identity & new era for Pylon Network

The new branding of Pylon Network signifies this new era for us. The era of digitalization and customer-centricity, with the rise of collective generation / consumption and the shift to an energy as a service model.

The new image of Pylon Network resonates with our core values and the change we want to see in the world and our societies:

- Transparency
- Neutrality
- Simplicity
- Connectivity
- Digitalization

Within Q1 - 2021 Pylon Network will officially launch the new branding across its platforms, communities, and channels.

STAY UPDATED. STAY CONNECTED. SHARE THE ENERGY.

[Web](#) · [Twitter](#) · [Medium](#) · [Reddit](#) · [YouTube](#) · [Instagram](#) · [LinkedIn](#) · [Facebook](#)

Join us on Telegram and talk directly to Pylon team
[Pylon Network – Official Telegram Group](#)

