Fusebox
.energy

How to Launch Your Own Virtual Power Plant:
Practical Steps to Success

The global energy landscape is shifting fast. Renewables and distributed energy resources (DERs) like solar panels, batteries and flexible loads are everywhere. But most of them are still underused.

Today, less than 10% of the EU's 30 million distributed assets are actively integrated into energy markets. That's a massive waste of potential revenue and grid flexibility.

Virtual Power Plants (VPPs) are the solution. They allow energy companies to unlock that value by integrating those assets, coordinating them as a separate portfolios, participating in balancing markets and optimizing energy use and trade across different platforms. In today's volatile and decentralized energy world, a VPP is no longer a nice to have. It's an essential tool within energy companies toolbox.

Why Fusebox?

Fusebox is a pioneer in VPP technology with over 10 years of experience. We operate across 8 European countries: Estonia, Finland, Sweden, Latvia, Lithuania, Greece, Romania and Bulgaria.

We didn't just build VPP software. We use it ourselves. We started as an independent aggregator by running our own portfolio, which means we've faced the same problems our clients face today.

We've also spoken to thousands of energy companies, including utilities, PV park managers and BRPs, to understand their day to day challenges.

Most of them struggle with the same issues:

- Integration of diverse assets and control them in real time.
- Fragmentarily and isolation of the different tools and solution they use.
- Fast deployment of their assets to the ancillary markets.

This guide lays out the practical steps (see overleaf) to fix all of that and launch your own successful VPP.

Proven Results with Fusebox

Across Europe, energy companies using Fusebox have unlocked:

- 40–60% lower grid reinforcement costs compared to peaker plants
- 2–3× more revenue
- Up to 90% reduction in imbalance costs
- Market access up to 2 years faster
  Compared to navigating ancillary market entry on your own

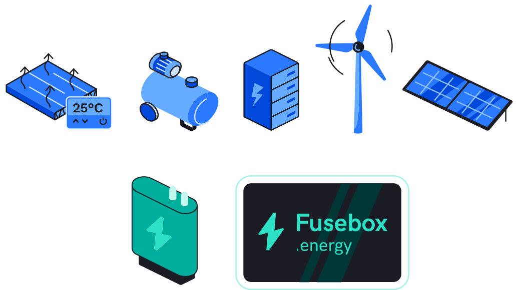
Whether you're running a hybrid site or managing a global portfolio, Fusebox gives you everything you need to launch and scale a high performing VPP fast.

Let's Get You Started

From integration to market participation, we help you move from concept to revenue faster than you thought possible.

Get in touch and start your VPP journey today.

Step 1



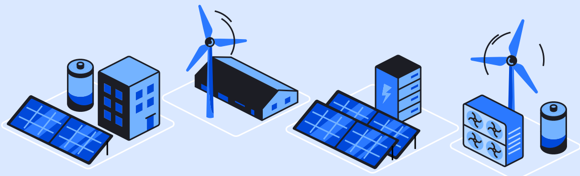
Integrate and Make Assets Remotely Manageable

First, make sure your assets can be managed remotely, including older systems. You need:

- Controllers that work with your infrastructure.
- System that supports standard protocols like MQTT, Modbus TCP, IEC104.

Fusebox controllers even make legacy equipment fully remote ready.

Step 2



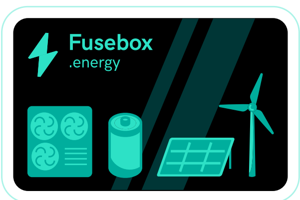
Aggregate Assets into Manageable Portfolios

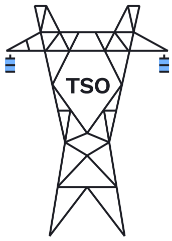
Group your assets into portfolios to participate in ancillary markets. This means:

- Creating asset groups with shared operational logic
- Adapting control strategies based on market signals and performance

Fusebox helps coordinate hundreds of diverse assets into high performing portfolios.

Step 3





Connect and Qualify with Local TSOs

You'll need to:

- Set up two-way communication channel with the TSO data exchange environment for market participation
- Prequalify your portfolio

Fusebox gets you into the market up to 5× faster than doing it yourself.

Step 4

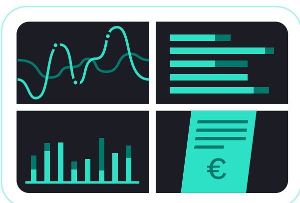
Automate Market Participation and Optimization

You need smart software that uses:

- Live data from ancillary markets
- Your own assets data and business logic
- Bidding and activation automation

Fusebox's bidding engine boosts revenue up to 18%.

Step 5



Implement Billing and Reporting

You'll want to bill your own customers and stay compliant. That means:

- Automated billing based on actual asset performance
- Easy reporting and data export for settlements and audits

Fusebox system handles billing and reporting, so you don't have to.

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BUILD SMART NOT HARD