

Energy Solution: Holoni Piloting in: Copenhagen

Introduction

HOLONI enables municipalities, local sustainable brands and energy retailers to assess the true potential of city solar, exchange local green energy and, at the same time, reinvent their community and commercial relationships to prosumers towards collective sustainable impact. HOLONI leverages Artificial Intelligence (AI) to predict and analyze solar surplus potential across the city and Distributed Ledger Technologies (DLT) to automate result-based reward and incentive schemes for urban solar prosumers. HOLONI also integrates ORIGIN, a prototype solution developed by Energinet to verify the origins of electricity by the hour.

HOLONI builds AI, Blockchain and IoT solutions at the crossroads of clean energy, fintech and smart cities. With inputs from local prosumers and enterprises in Copenhagen, the HOLONI solution will act as a catalytic tool towards positive energy districts, renewable energy communities and, in the future, local energy markets. Based on this first AI4Cities experience, HOLONI aims at growing a wider portfolio of digital solutions to empower prosumers, democratize asset ownership and financing, and accelerate the deployment and efficient use of shared Distributed Energy Resources (DER).

Avenue & AI4Cities

Joining AI4Cities allowed the HOLONI partnership to innovate with a strong climate impact purpose and iterate its solution design and business model to ensure shorter-term adoption. Emerging technologies such as AI and DLT/Blockchain have a large theoretical potential but, in practice, it is often difficult to overcome technical, legal, economic and or business model challenges towards scalable short-term impact. AI4Cities helped Holoni to experiment quickly, based on real world data, and by leveraging the Copenhagen city as a trustworthy channel for local engagement.

Consortium

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AI4CITIES



ABOUT AI4Cities

The AI4Cities project is using AI to make Europe's cities more sustainable. Helsinki, Amsterdam, Copenhagen, Greater Paris, Stavanger and Tallinn are going through a Pre-Commercial Procurement (PCP) to find solutions to make their mobility and energy domains more carbon neutral.

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