ALPHA VENTURI



RIGEITIES Midterm Presentation Extract, Paris 14 06 2022



Exploring new tech solutions & business models to massively scale city solar energy by making it a better deal - for ALL

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Agenda

AMBITION | PROBLEM | SOLUTION

CO2 REDUCTION VERIFICATION

HOW THE AI IS BRINGING ADDED VALUE

PHASE 3: GOALS, DELIVERABLES, STATUS, NEXT STEPS AND BLOCKING POINTS



Massively scale city solar energy by making it a better deal - for all



Centralised Energy System

Solar Cities

Climate Neutral Cities

Source of illustration: Elia 2021

Vision



Net Zero Energy Districts

It all starts with massively scaling city solar and rewarding the sharing of Solar Surplus



Local Solar Energy tracking & sharing Collective Self Consumption Revenue sharing



TODAY

SIZED FOR MY OWN CONSUMPTION

TOMORROW

SCALED FOR COLLECTIVE SHARING

"Today, there is lack of incentives for prosumers to invest in surplus, that needs to change" Al4cities Municipality

Problem: How to incentivize prosumers to invest more and automatically reward them for sharing their solar surplus?



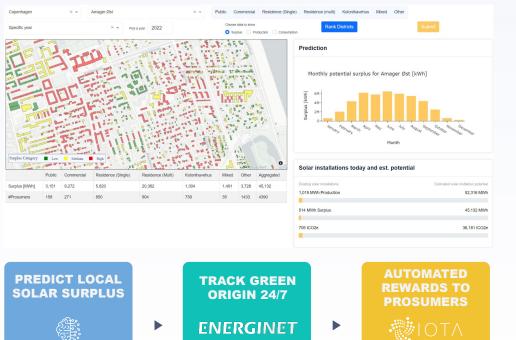
How can prosumer investors reduce cost and risk while increasing revenues and benefits What role for the municipality in shaping urban net zero communities?

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How to transform this cost into a

"sustainable" competitive advantage

Solution: We predict the potential of solar surplus, assess its true value and channel it to prosumers investing in solar PVs



ENABLING NEW PROSUMER-CENTRIC BUSINESS MODELS

Co-ownership of solar PVs & batteries



Energy Sharing & Collective self consumption



Sustainabilitylinked financing of shared energy assets



CO2 emission reduction potential and verification

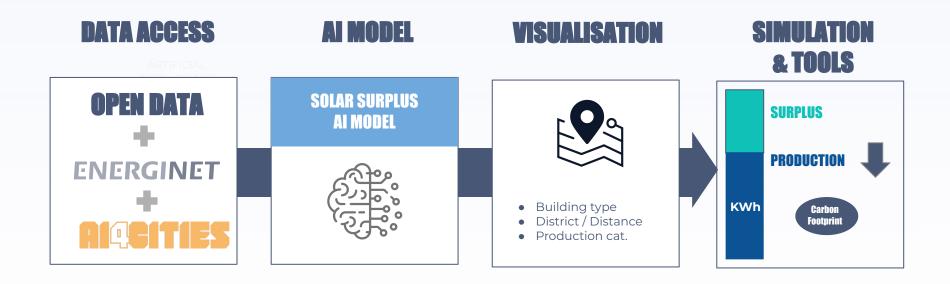
HOLONI

| IMPACTS SOLAR UPTAKE | REDUCES CO2 EMISSIONS | BOOSTS COLLECTIVE ACTION |
|---|--|---|
| Greater returns for prosumers investing in city solar | Replaces energy inflow in the city with local green generation | Positive Energy Districts (PED) & green self-sufficient cities |
| Increased net energy savings for solar buildings | Enables net energy savings from collective self consumption | Renewable Energy Communities (REC) |
| Solar Surplus available for local consumption in the district | Stimulates expenditure in local low-carbon economy | Urban Peer-to-Peer Local Energy Markets |
| | TRACK GREEN | |

ENERGINET ENERGY TRACK & TRACE

ORIGIN 24/7

How does AI bring value?



Phase 3 Pilot - Goals, Expected Results

world data in CPH

| | 1. Demonstrate the technical feasibility and market-solution fit of the Solar Surplus prediction tool |
|-------|---|
| Goals | 2. Demonstrate the technical feasibility of an automated result-based reward scheme for prosumers |
| | 3. Build a new startup for the commercialisation of the solutions |
| | |
| | 1. Development, testing and pilot of a first Solar Surplus Prediction |

Expected results

- prototype in CPH
 Development, testing of a reward scheme proof of concept using real
- 3. Establishment of the startup and new business opportunities beyond Al4cities geographies / scope

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Context

The EC accelerates the rollout of renewables

Proposal to increase the EU 2030 target for renewables

- <u>EU Solar Strategy</u>: Solar PV x 2 by 2025, + 600 GW by 2030
- A phased-in legal obligation to install solar panels on new public and commercial buildings and new residential buildings

The EC catalyses a citizen driven energy transition

- Collective self consumption / energy communities
- 100 Climate Neutral City Mission
- Positive Energy Districts