BUILDING INTEGRATED PHOTOVOLTAIC (BIPV): TRAINING WORKSHOP AND GUIDED TOUR

BIMSOLAR Software user story
DEMO 6 (TECNALIA)

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Donosti, M2, TECNALIA, 6 Nov 2019

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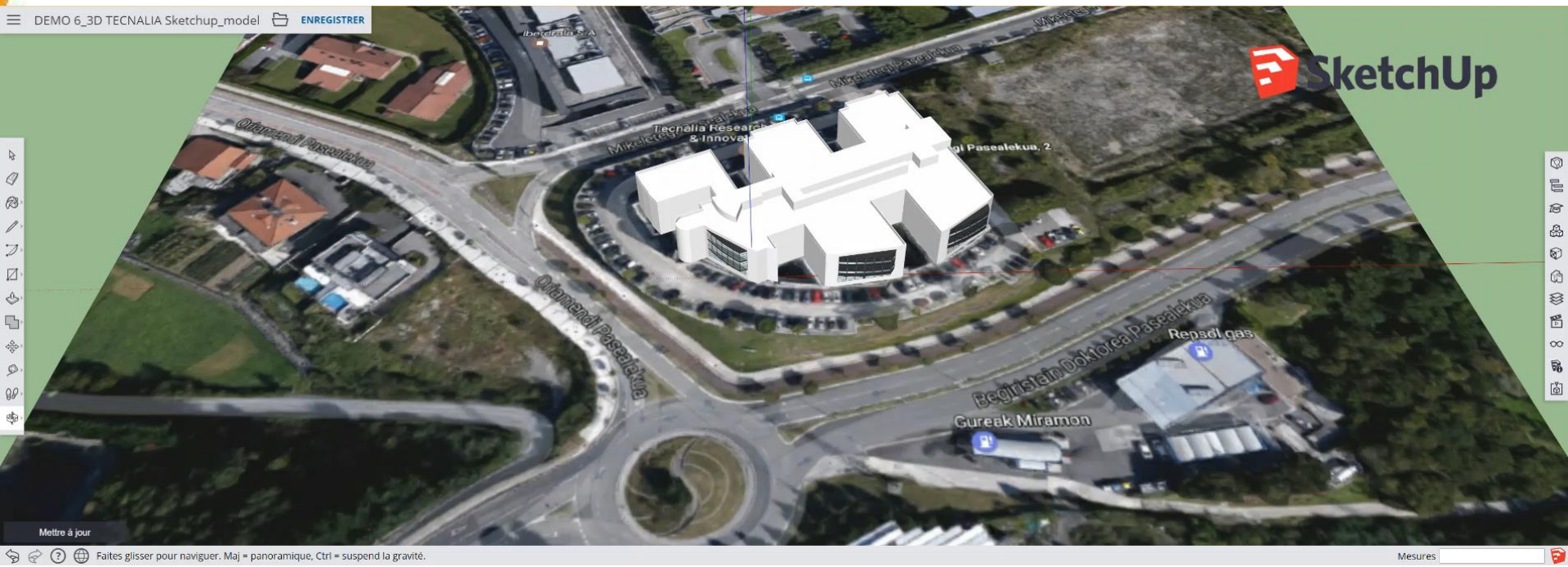
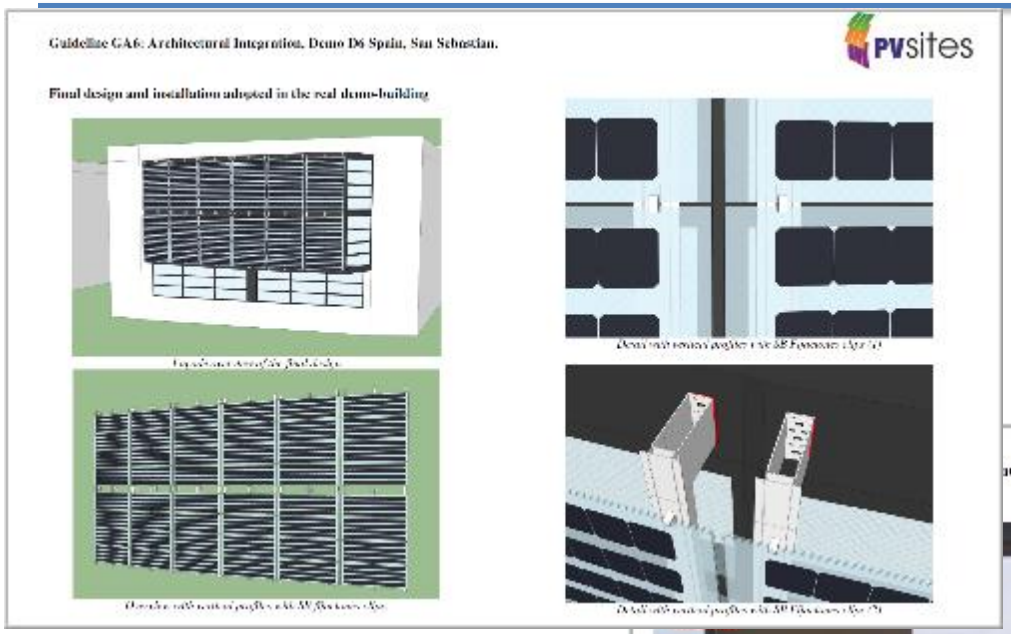
Identify your project / Location with common tools

Sketch / Design your 3D model



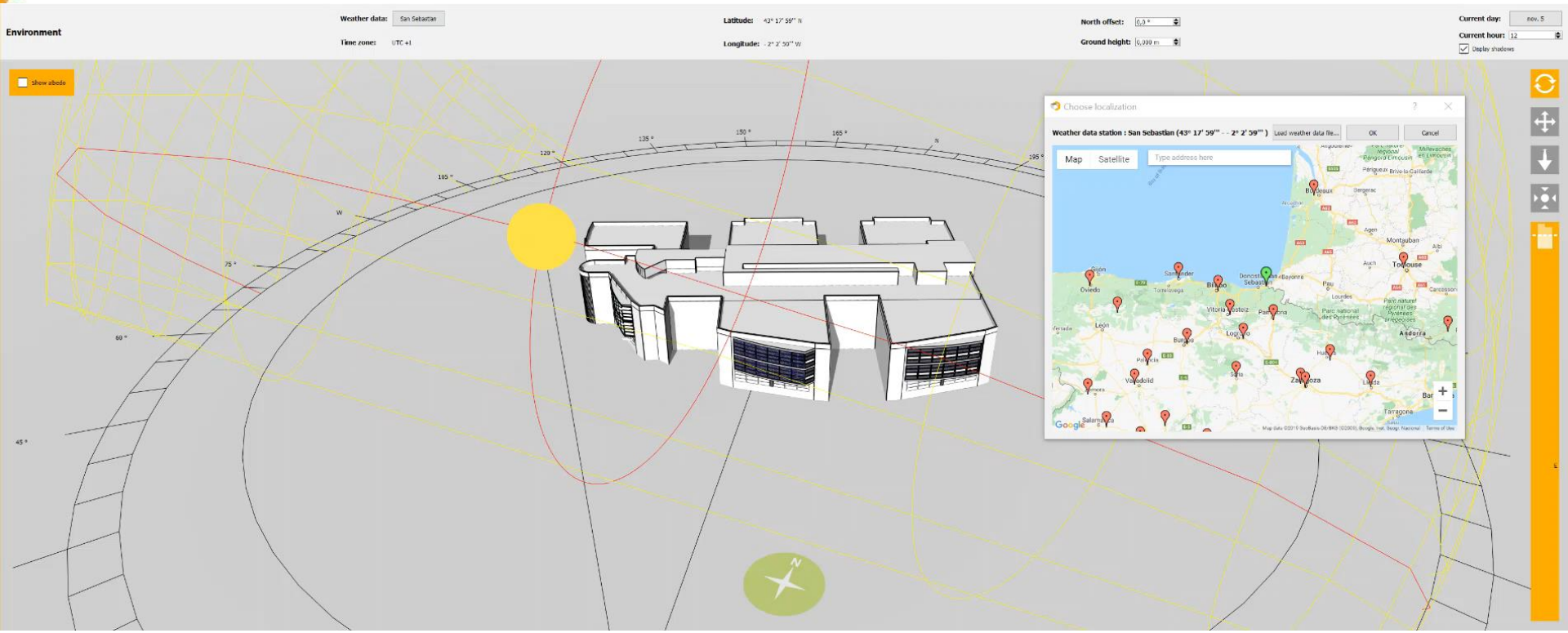
This mock-up (from BEAR-ID Architects) is as accurate as possible speaking of geometry (global, walls, windows). You can already set-up your BIPV installation (grid)

Stick to architectural configuration for BIPV



Aesthetic issues have to be anticipated

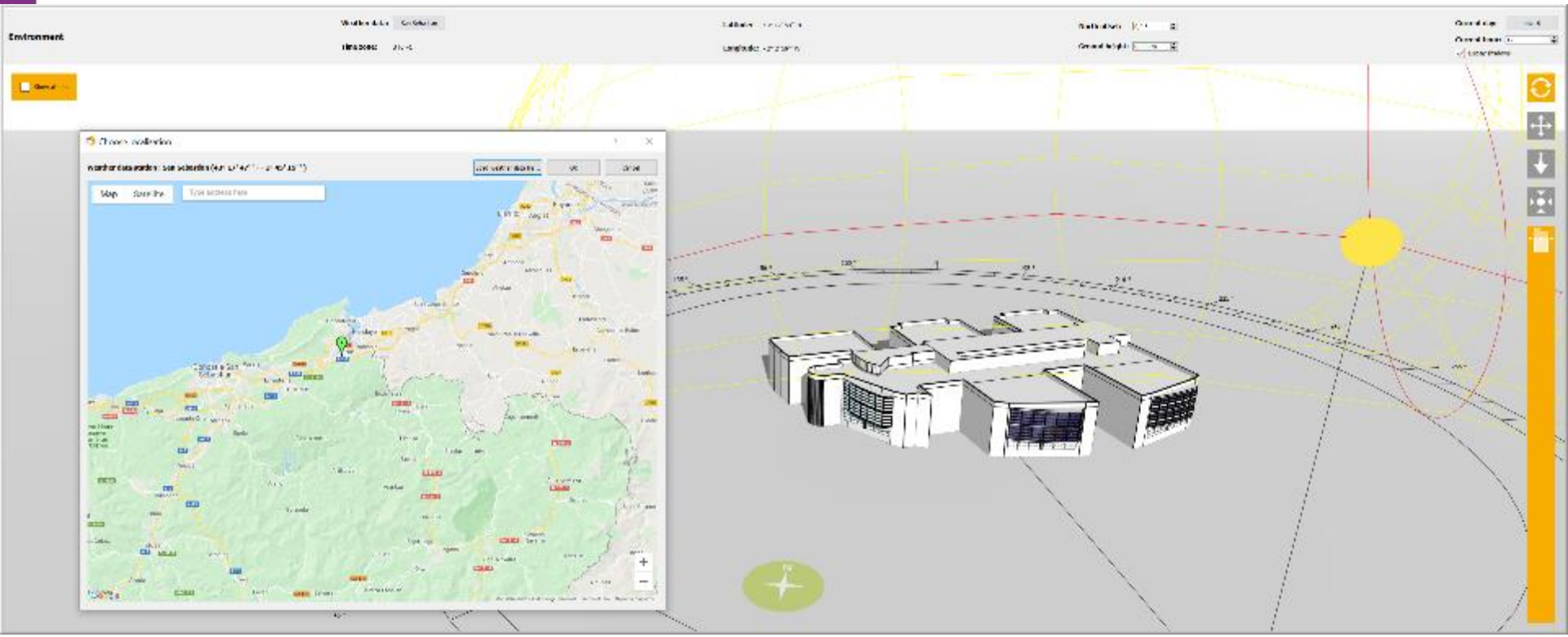
Video: BIPV modeling



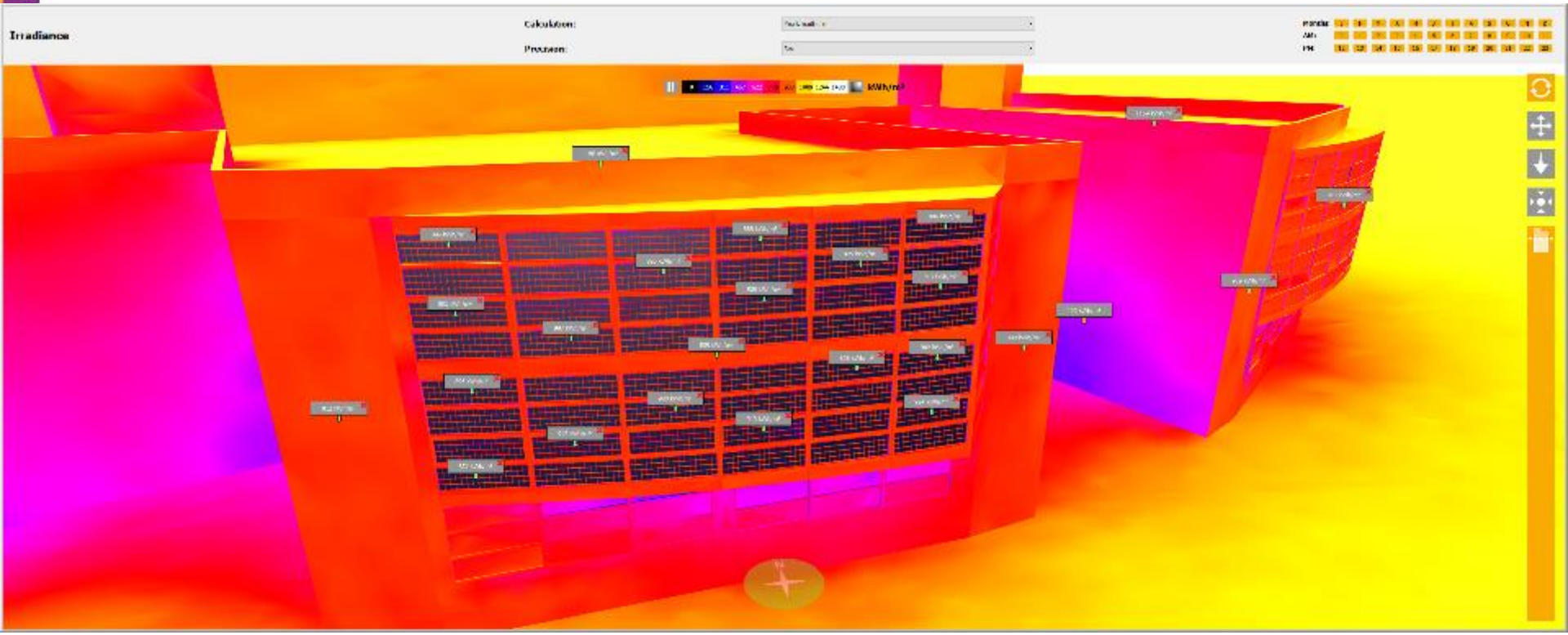
BIPV modeling

To SUMMARIZE…

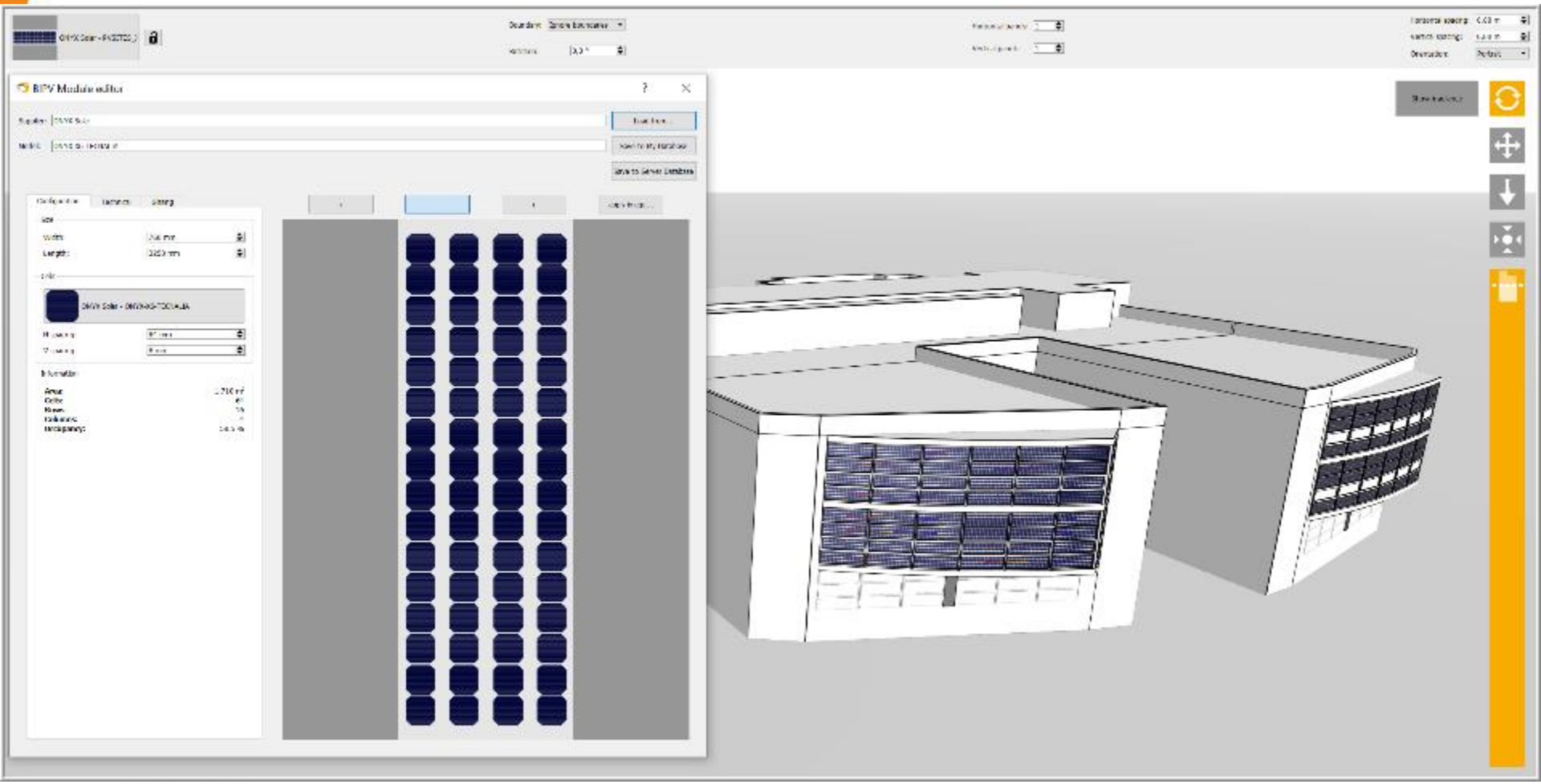
Inputs: 3D model importation / Geolocation / / Weather data



Irradiance – solar potential mapping



BIPV layout: set-up of the virtual products

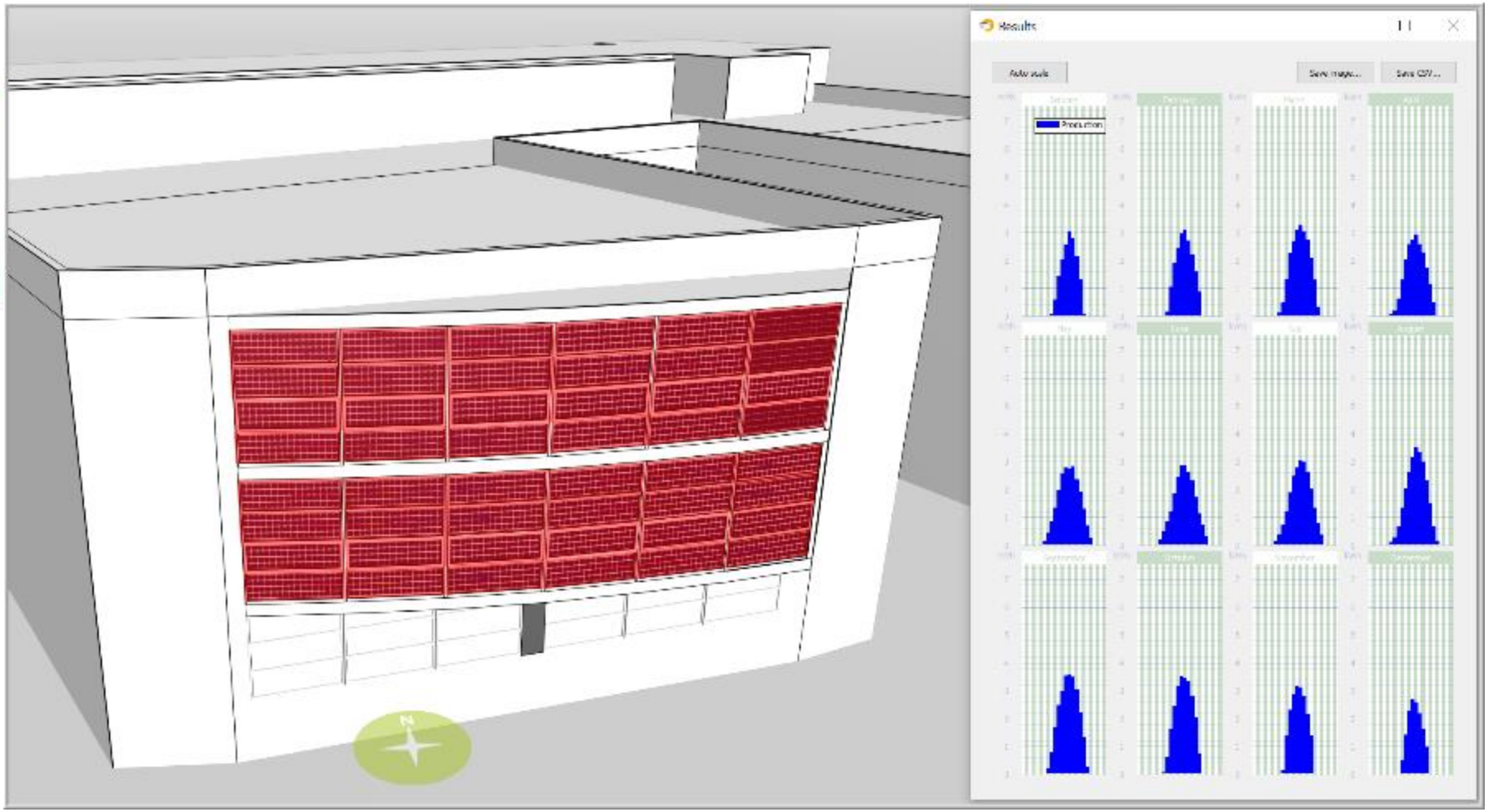


BIPV Layout

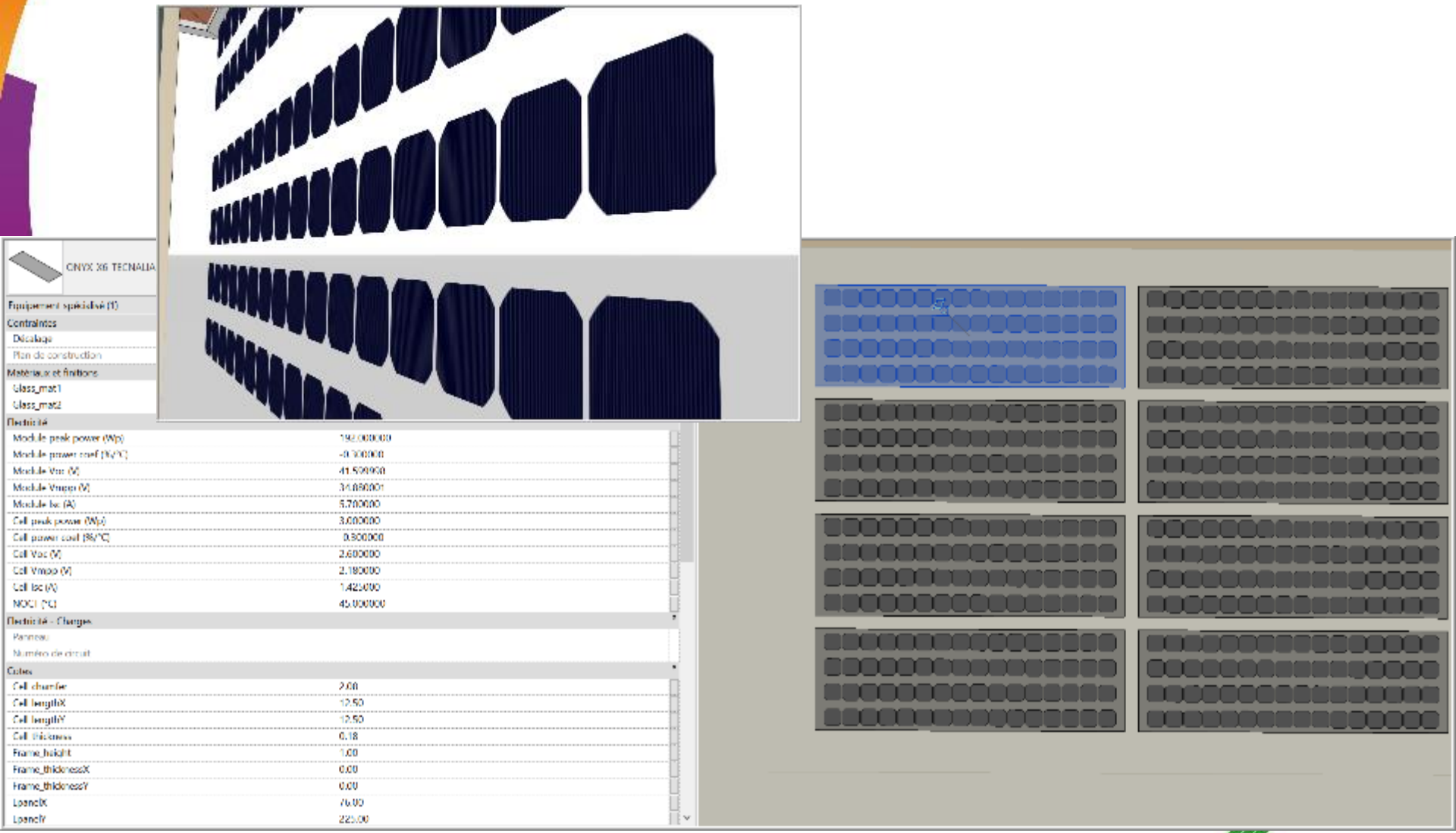
Select/Edit CELL → Select/Edit Transparent GLASS → Select/Edit GLAZING SYSTEM → SetupPATTERN → Integrate BIPV LAYOUTS into the 3D model

BIPV layout: build your virtual installation in 3D and get instant results (production, yield, losses)

Results: 3D display, csv exportation. Get DC production, losses, at element level, 1H to 1Y timestep - What if Analysis



X6-ONYX BIM PVSITES objects



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