SMALL SCALE ACTIONS TO DIVERT BIRDS

Strategies for deverting birds from entering the PV park area

HUMAN DISTURBANCE

Bike lane and pedestrian paths

at the edge of the PV panel

HIGH IMPACT NOISES

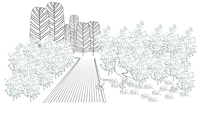
Noise towers

with predator sounds to divert bird and disturbing noises

COVERING WATER BODIES

Overpass

To reduce the attractiveness of the area for birds



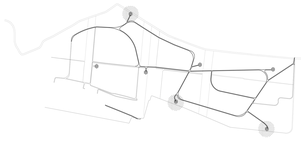
NEW BIRD ATTRACTING AREAS

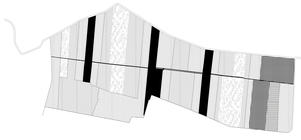
Bird Habitats

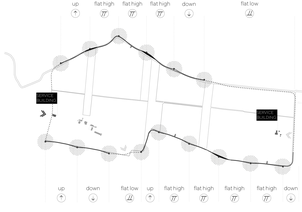
Creation of new habitat to change birds in the park area

INTERVENTIONS

Stratification of interventions







MOVEMENT IN THE PARK

Since birds are attracted to unexpected twists and turns, the paths take organic shapes to connect existing streets and viewing towers. The bridge towers represent a pedestrian vertical connection between the park and the bike loop.

- Bridge towers
- Sensorial Towers
- New path
- Existing path
- Canals - Water bodies

WATER AND FORESTATION

Flooded areas and high hydrogeologic risk spaces become water bodies and wetlands.
Follows a succession of low/high vegetation, and large open spaces, in accordance with the needs identified for the protection of local birds.

- Water bodies
- Wetland
- Bushes
- Reforestation Area
- Greenland
- Water Woods

BIKE LOOP

The bike loop is rhythmed by a succession of noise towers, that divert birds, while also working as structural elements for the flyover. The movement of the bike loop is both vertical and horizontal, crossing the canals and bending down to allow access. The formal entrances take place from repurposed farmsteads.

- Main Access
- Secondary access
- Elevated Bike Lane
- Ground Level Bike Lane
- Decks
- Re-used Farmstead
- Noise Towers

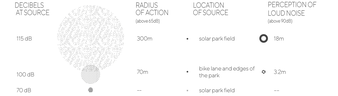
PANELS AND BIRD CROSSING

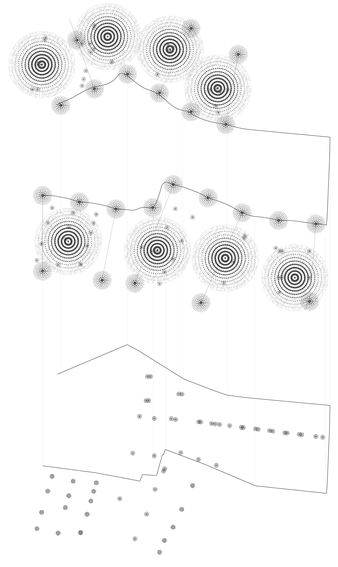
The central area surrounded by the two canals has lower elevations and is more susceptible to flooding and water runoff. The PV panels are therefore removed from this space, which instead becomes a crossing channel for local birds.

- PV panels
- PV panel Stations
- Existing Canals
- Service Roads
- Bird Channel

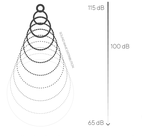
NOISESCAPE

Levels of noise in the PV park Area

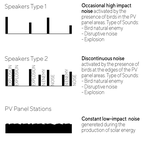




FADING OF THE SOUND

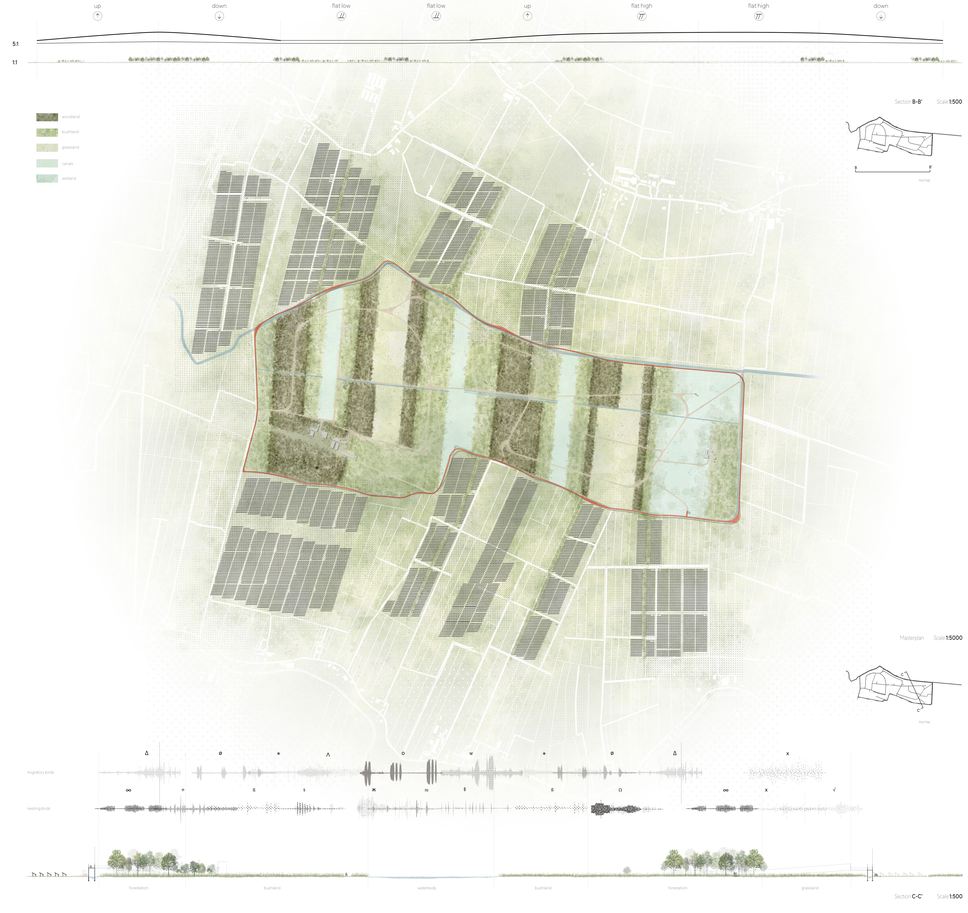


FREQUENCY OF SOUNDS



MASTERPLAN

Levels of noise in the PV park Area



Section B-B' Scale 1:500

Masterplan Scale 1:5000

Section C-C' Scale 1:500

Indirochlorinae

Little Bittern

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wetland grassland bushland forest

Nycticorax nycticorax

Black-crowned night-heron

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Phyllonastes

Green Woodpecker

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Ardeinae/purpurea

Purple Heron

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Egretta garzetta

Little Egret

Egretta

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Ardeinae/cinerea

Black-winged stilt

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Alcedo atthis

Kingfisher

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Ciconinae/nigricollis

Asp Viper

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Jynx torquilla

Wryneck

Jynx

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Anseriformes/anas forest

Squacco Heron

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wetland grassland bushland forest

The loop is raisings as lower in the deck areas to allow birds to perch and hide from the benches.

permanence: slow step

visibility: eye-view level

Section D-D' Scale 1:100

The bike lane has a concrete surface with an angle of 1.5% inclination to allow water to slide to sides along the road.

surface: 1.5% inclinated

subsoil: water drainage

Section E-E' Scale 1:100

The loop goes up and down according to the park. It has an inclination of 3% to allow full accessibility for bikes

accessibility: 3% inclination

movement: vertical direction

Section F-F' Scale 1:100

Designing a landscape to promote biodiversity in a solar park

DIVERTING THE BIRDS

Supervisor: *Prof.ssa Sara Protasoni*

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