

PU062 SKAVSTA ENERGIZED

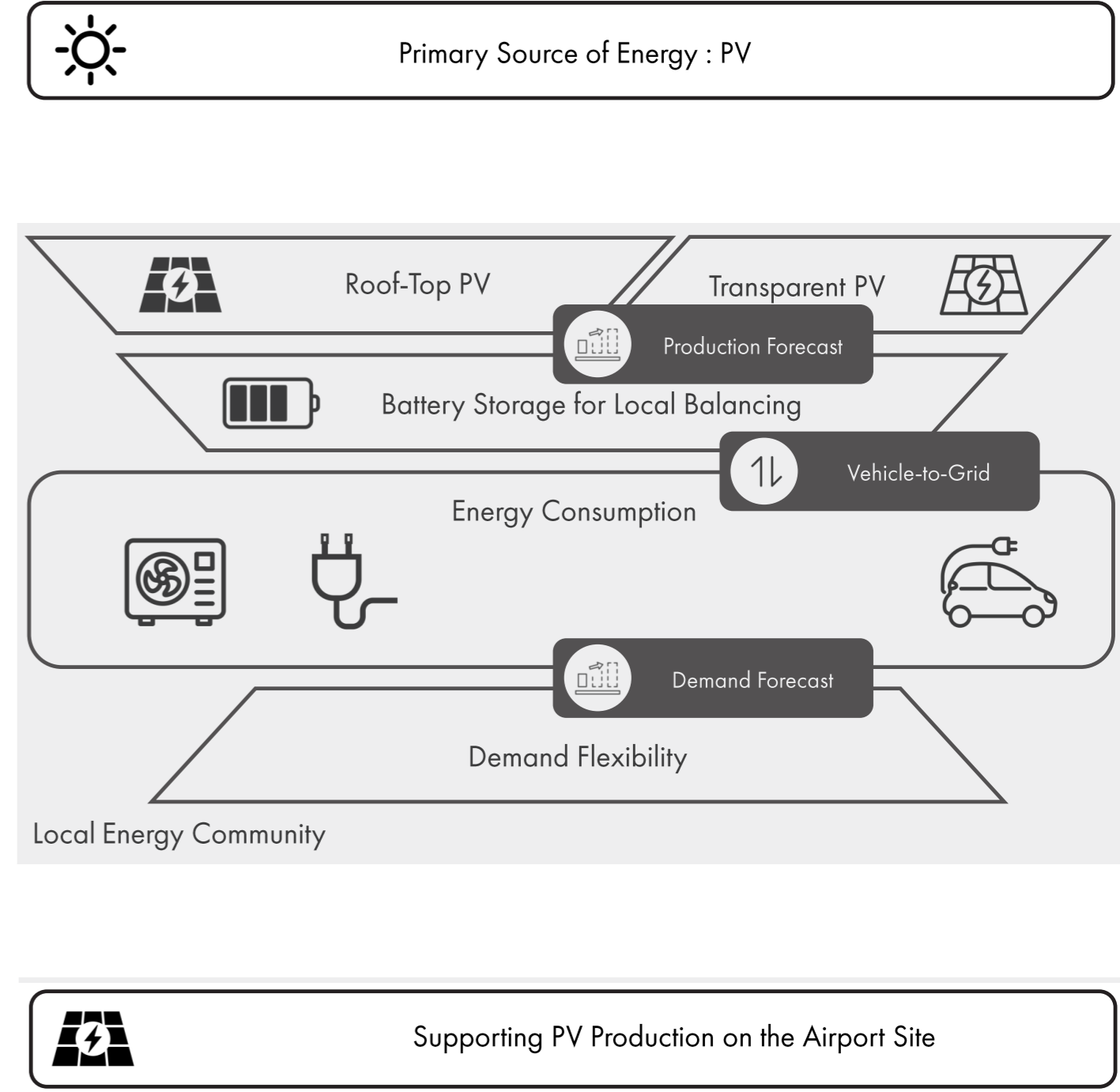


SOLAR USAGE

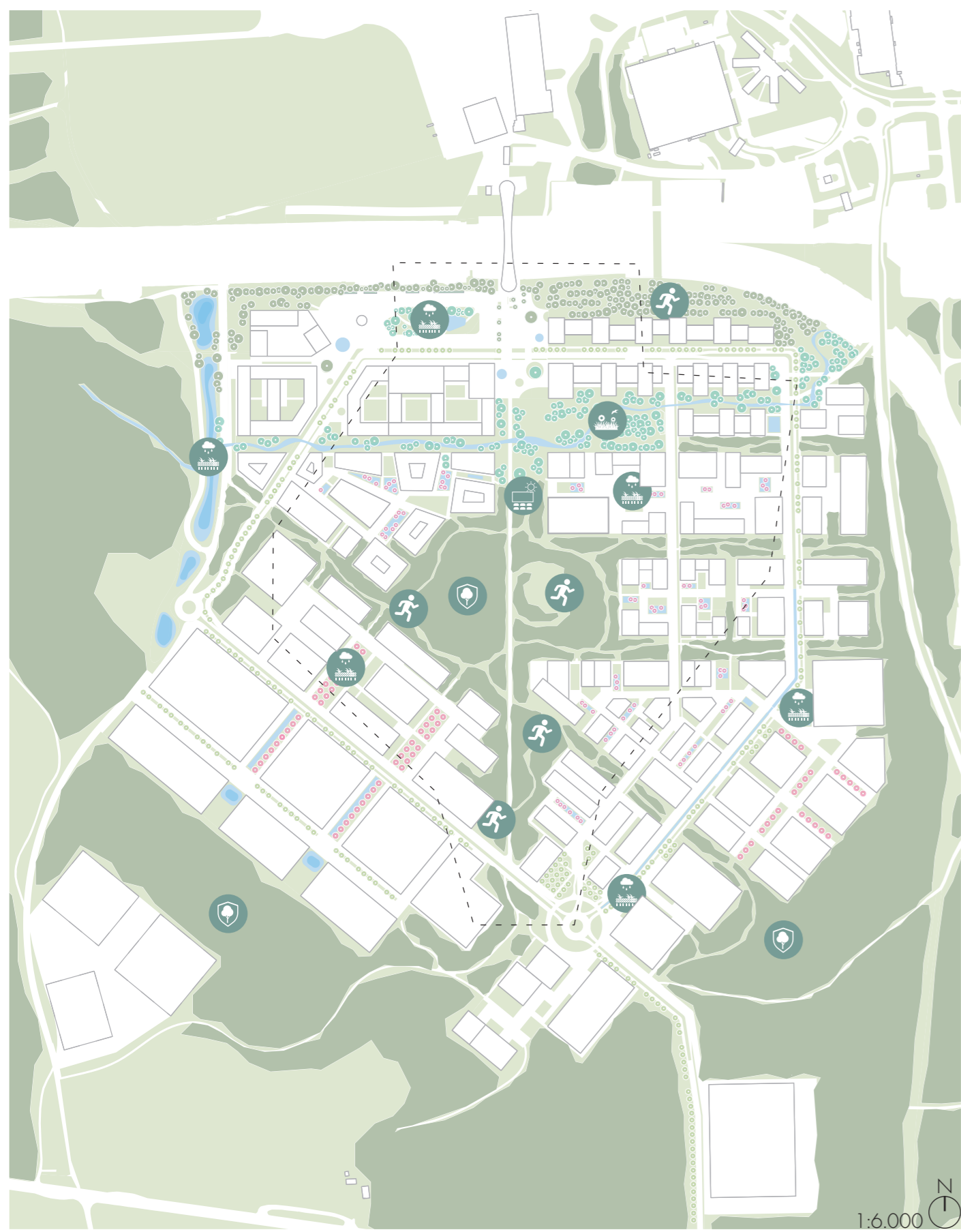


TEN POINT PLAN FOR A TRULY SUSTAINABLE ENERGY CONCEPT

1. With more than 260.000 sqm of space utilized for PV production the concept provides green and independent, but also affordable energy in the district which creates unique attractiveness for a business park in Sweden.
2. In total 76% of local energy consumption are produced renewably within the planning area. Adding the planned PV energy production on the airport site the area will become a positive energy district.
3. Local renewable energy production exceeds non-industrial consumption by 2.5x.
4. Assumption: Energy efficiency requirements push down energy consumption by 30% until 2040.
5. Assumption: Increased efficiency of PV production from 15% today to 25% in 2040 as expected by latest research.
6. Fixed energy quotas per building make the local companies responsible for working in an energy-efficient manner or making targeted investments in other renewable energy sources.
7. Approx. 30.000 kWh of battery storage are incorporated in the concept to ensure short-term balancing.
8. Integration of vehicle-to-grid on the mid-voltage system allows super-fast charging of electric vehicles and further extends short-term storage capacity
9. 16 low-voltage grids all connected via a redundant mid-voltage ring structure create optimal prerequisites for local energy communities.
10. The planned connection to the regional grid allows energy exchange with the region and its hydro power capacities instead of incorporating expensive long-term storage.



OPEN SPACE CONCEPT



- Forest preservation
- increase biodiversity
- natural watermanagement
- outdoor activities
- outdoor stage
- street trees
- park trees
- wet land trees
- evergreen trees

MOBILITY CONCEPT

