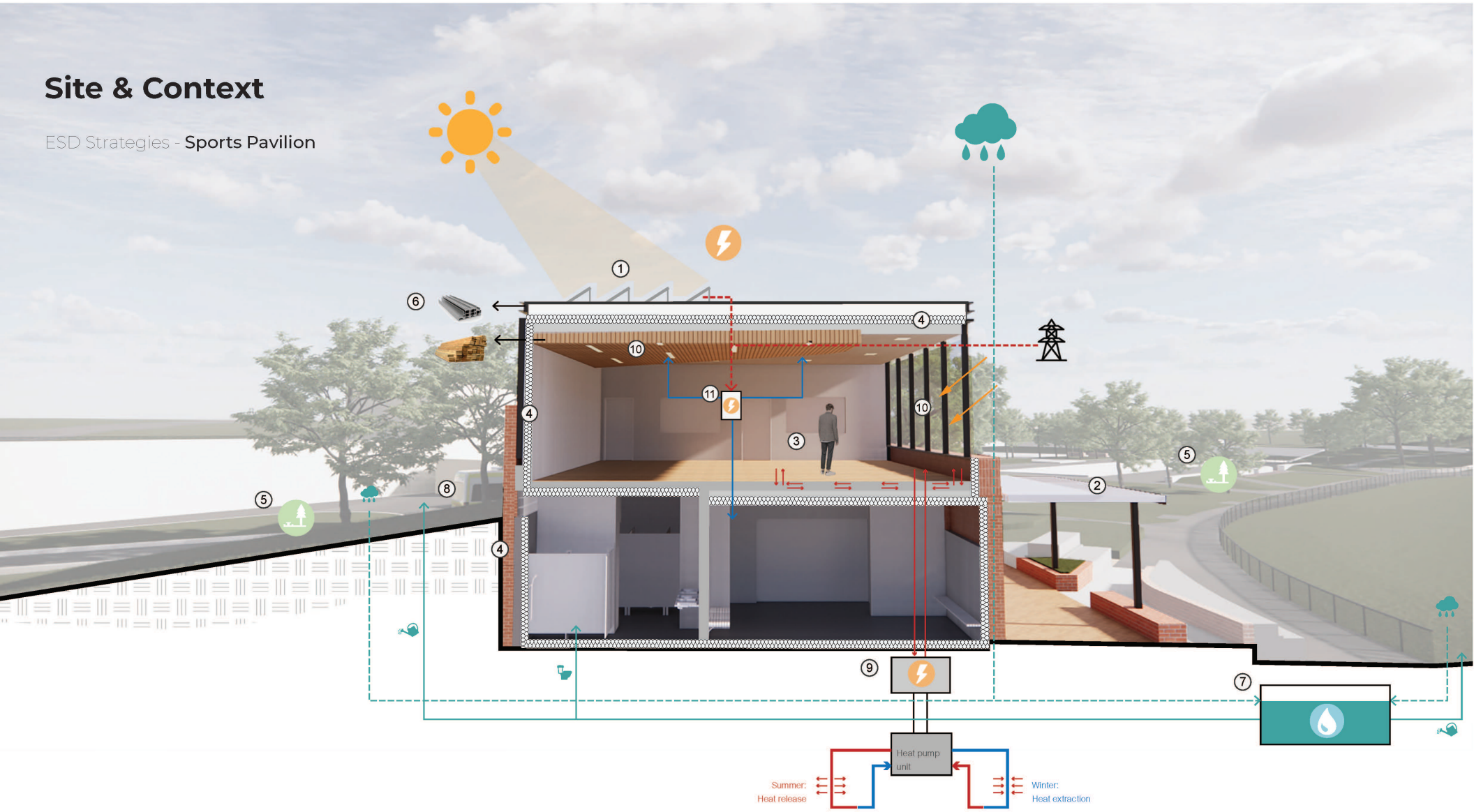
# Site & Context

ESD Strategies - **Sports Pavilion**




① **PHOTOVOLTAIC PANELS**
Solar PV array covering the roof of the building and provide hot water heating

② **LOUVRE SHADING**
Control the glare of the sunlight into the building and to the outdoor area

③ **INDOOR SPACES**
Designed for enhanced air quality, noise control and daylighting

④ **BUILDING ENVELOPE**
High performance insulation (min. R4) and glazing to roof and walls; provide thermal separation at the mound

⑤ **LANDSCAPE ELEMENTS**
Reduce the impact of Urban Heat Island effect

⑥ **MATERIAL SELECTION**
Source building materials from sustainable supply chain

⑦ **RAINWATER STORAGE TANK**
To supply WC's and landscape irrigation

⑧ **BIKE PARK**
Provide secure cyclist facilities

⑨ **ELECTRIC HEAT PUMPS**
To provide energy efficiency

⑩ **BMS INTEGRATION**
Provide sensors & master switches for lighting & power abd HVAC integrated control with windows opening

⑪ **BATTERY SYSTEM**
Provide sustainable electricity to buildings through saved energy