

Lee Valley Ice Centre redevelopment

26th June 2019

Agenda

- The current Lee Valley Ice Centre
- Plans for a new ice centre
- A gateway to the marshes
- Sustainable quality design
- Community engagement and timeline





The current Lee Valley Ice Centre

Why a new ice centre is needed

Lee Valley Ice Centre is one of the most popular ice skating venues in the UK, but at 34 years old, is beginning to show it's age and is operating at capacity.

- It is open seven days a week, for up to 19 hours a day, and accommodates around 279,000 visits a year. A third of visitors are from Waltham Forest and Hackney, with the rest from across London and the wider region.
- The ice centre is a highly valued social and physical activity hub that is utilised by all members of its diverse surrounding communities.
- The existing building is tired visually and does not make a positive contribution to the natural setting of the park and Lea Bridge Road.
- The centre is now operating at capacity and is reaching the end of its operational life. If it is not replaced soon, this vital asset will be lost.
- LVRPA is committed to providing the majority of the investment and is working with other partners to secure the rest of the funding required.





Proposals for a new ice centre

A stunning new ice skating destination

Twice the ice: Getting more people moving

Current:



279,000
visits a year

Twin Rink:



**Doubles to
557,000**
visits a year
including gym and cafe visits

Current:



of skaters are from a Black, Asian and Minority Ethnic background vs national average of 11%

Twin Rink:



Diversity maintained and amount of visitors doubled

Current:



**33 hours of
public skating
a week**

Twin Rink:



**Doubles to 66
hours of
public skating
a week**

Current:

More than 5,500
disabled people use the centre every year. This is a particularly important audience given disabled people are twice as likely to be physically inactive than non disabled people.



Twin Rink:



**More than
11,000**

disabled people able to skate in the first 12 months

Current:



**Single ice rink
operating at capacity**

Twin Rink:

Double the ice and able to host elite national events such as the British Figure Skating Championships to inspire more people to take up skating, alongside community skating and grassroots sporting activity

Current:



**More than
60%**
of visitors to the centre are women and girls vs a national picture of 1.5 million more men than women taking part in sport

Twin Rink:



Women and girls visit the centre an additional
53,300
times in the first year

Current:

Offers:

public skating, ice disco, figure skating, ice hockey, learn to skate and synchro skating – all at capacity and unable to expand



Twin Rink:

Offers:

increased capacity for all activities plus speed skating, curling, gym and dance studio, cafe and community spaces



Current:



Runs at
100%
capacity



Twin Rink:



**Double
capacity**



Evolving design strategy

The scheme design has evolved over the last two years to reflect the constraints and opportunities posed by its unique context.

Key developments include:

- A reduced, compact footprint since 2017 plans.
- A critical principle is maintaining continuity of ice provision in some form during redevelopment, in order to maintain the socio-economic benefits offered by the existing ice centre.
- A building orientation that opens up views of the marsh from Lea Bridge Road.
- Creating new native habitats and enhancing existing habitats for wildlife.
- Significant native landscape planting and a vast aesthetic improvement to the current centre.

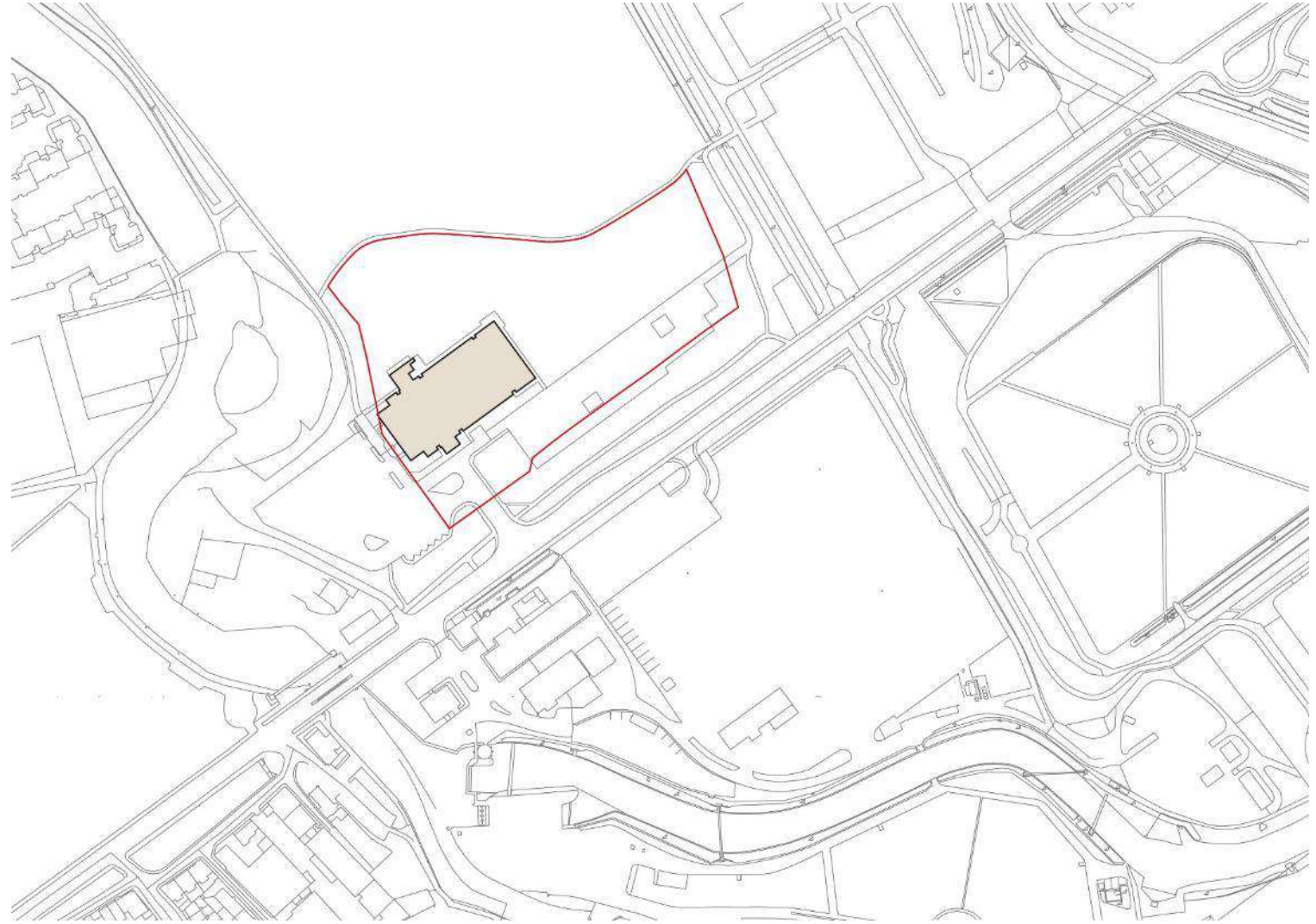
Lee Valley Ice Centre

Phasing and Continuity

North south axis enables continuity of ice provision during construction.

Existing condition:

- Existing building operational



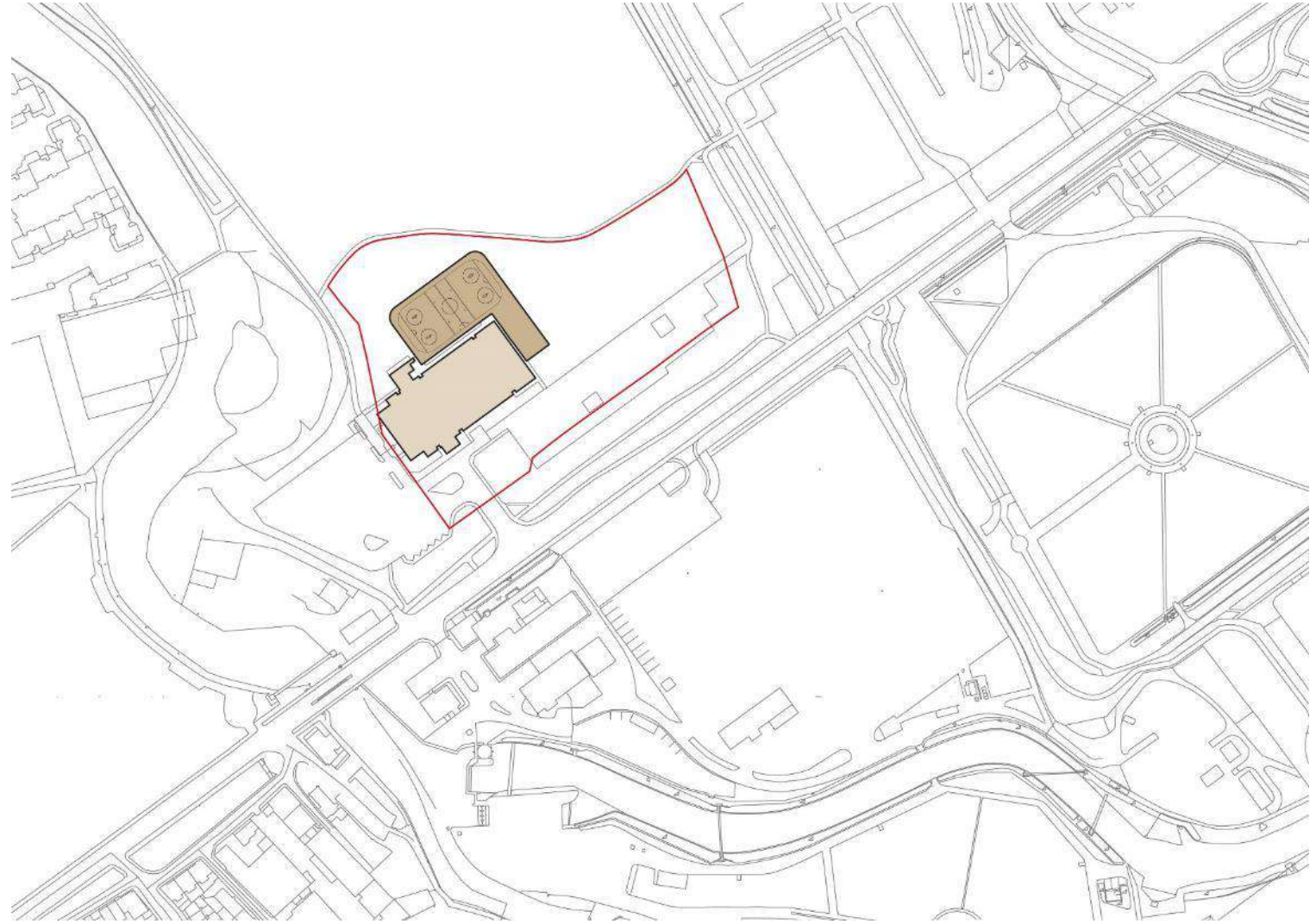
Lee Valley Ice Centre

Phasing and Continuity

North south axis enables continuity of ice provision during construction:

Phase 1:

- Existing building operational
- New community pad constructed to north



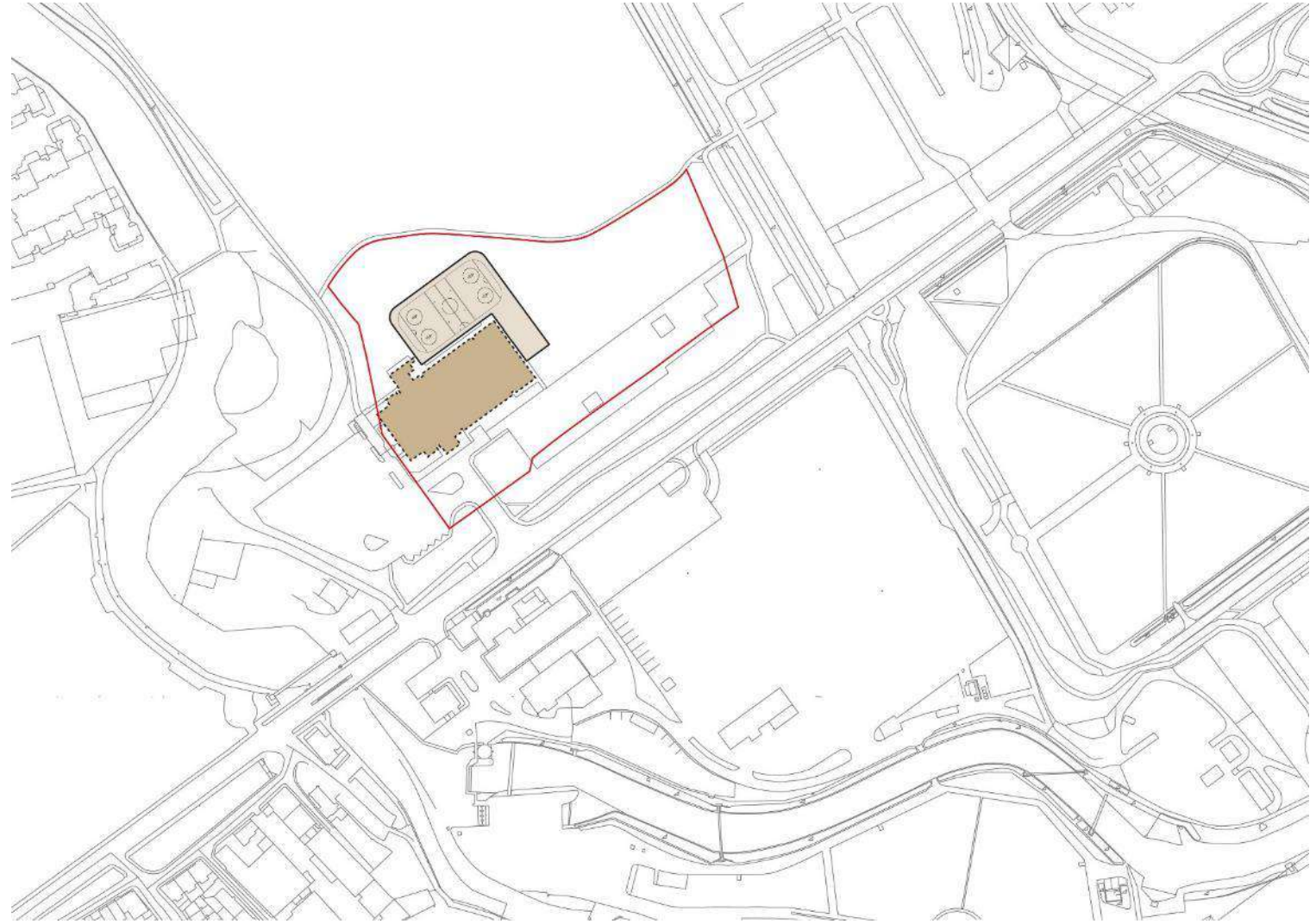
Lee Valley Ice Centre

Phasing and Continuity

North south axis enables continuity of ice provision during construction:

Phase 2:

- New community pad complete
- Existing building demolished



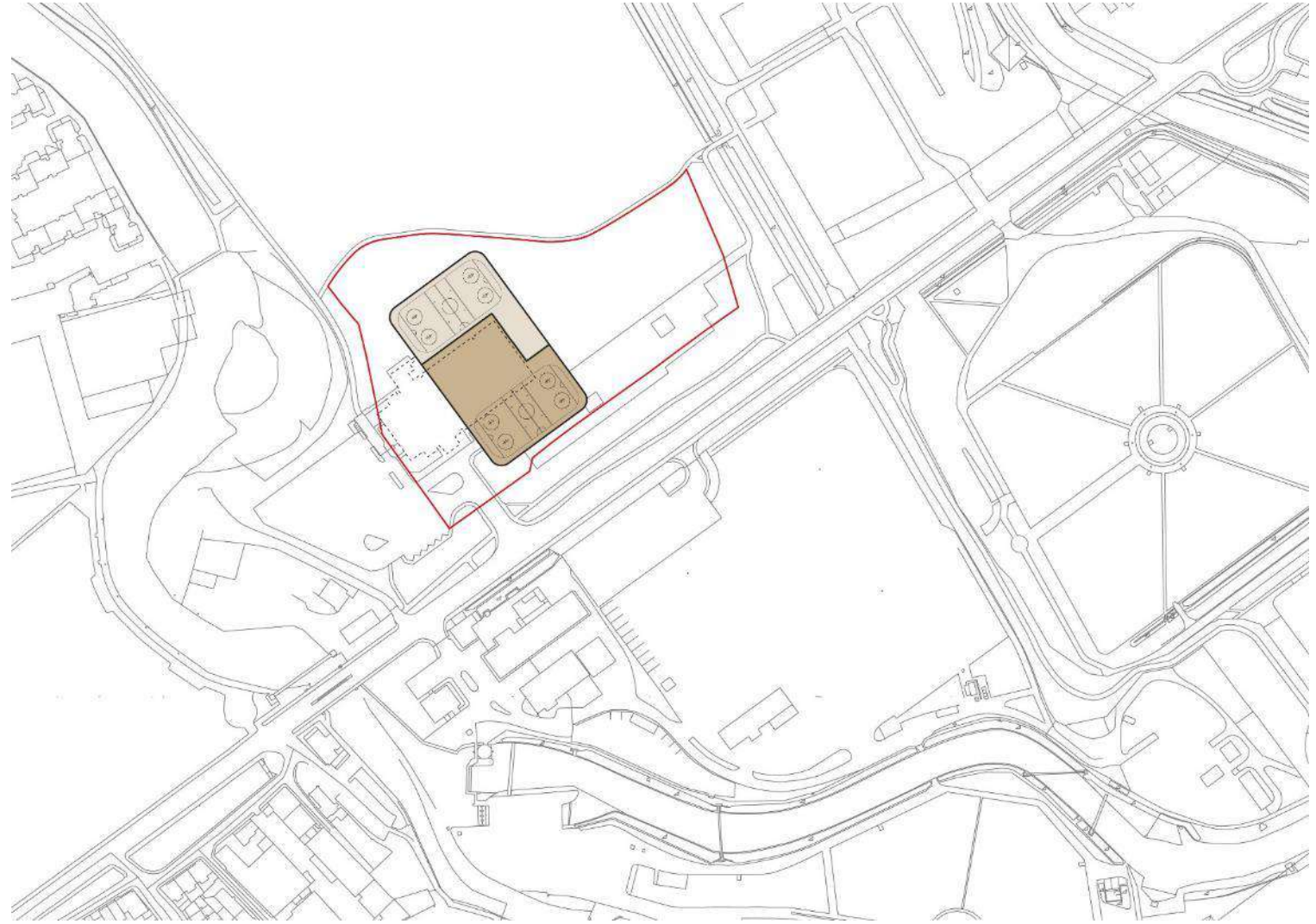
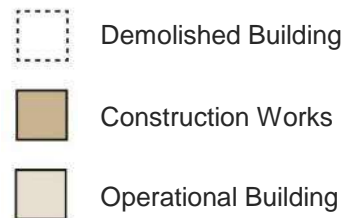
Lee Valley Ice Centre

Phasing and Continuity

North South axis enables continuity of ice provision during construction.

Phase 3

- New community pad operational
- New competition pad constructed.



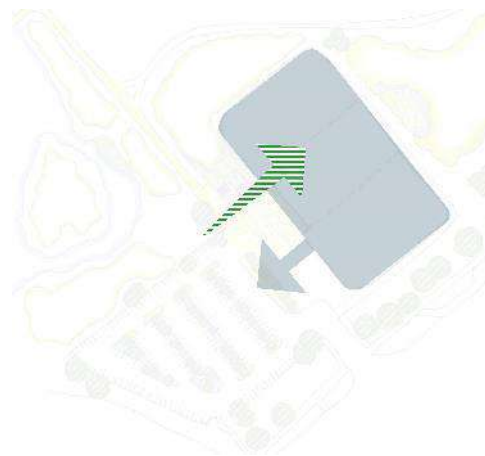
**A gateway to
the marshes**



Gateway to the marshes

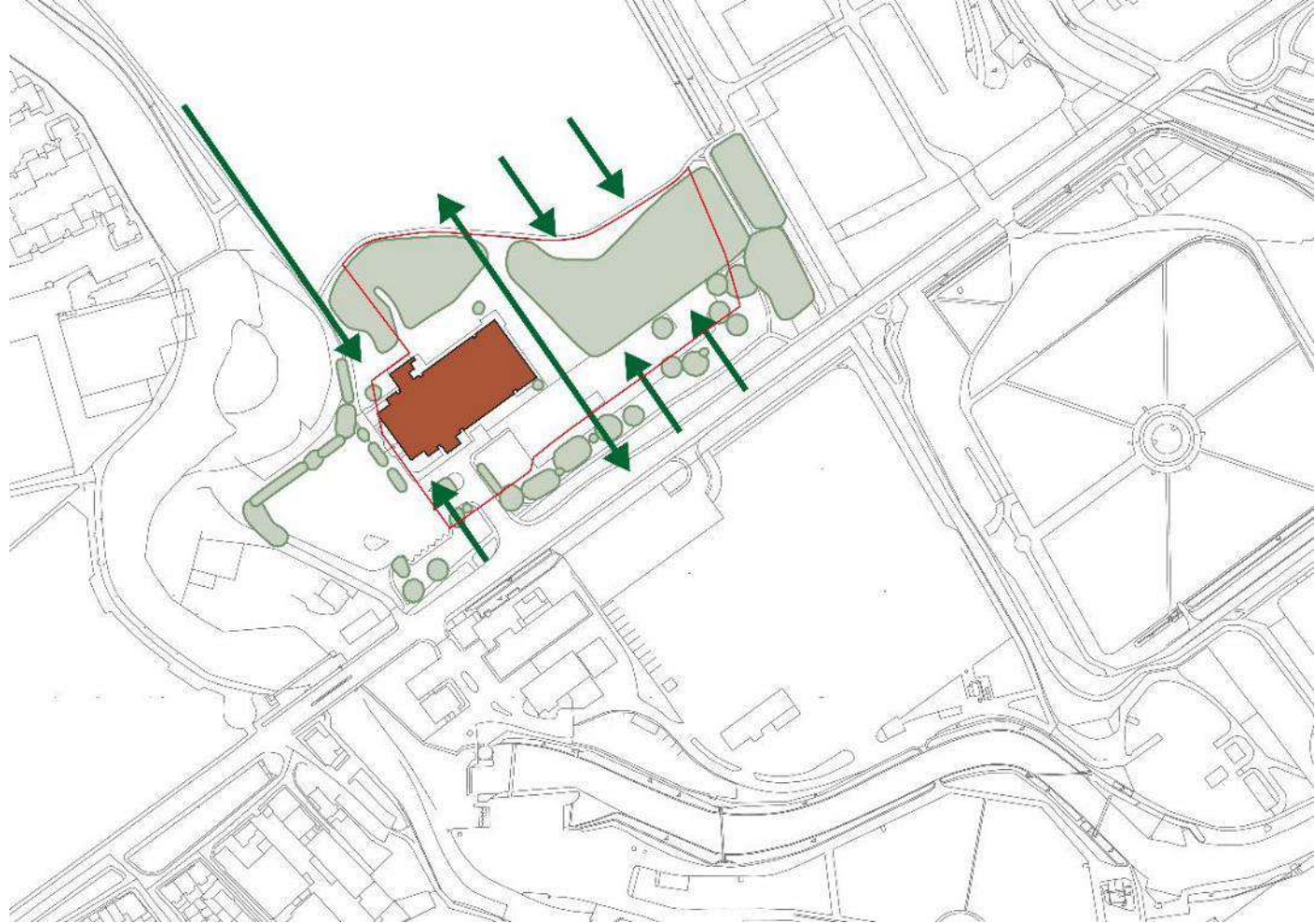
The new ice centre would operate in an entirely new way, acting as a gateway to the green space of Leyton Marsh and enhancing the surrounding landscape.

- The surrounding landscape would be transformed, replacing large areas devoid of ecological value with significant native planting.
- Wildlife in the area increased and vast aesthetic improvement.
- The new café and community spaces would open up the centre to all visitors to the area

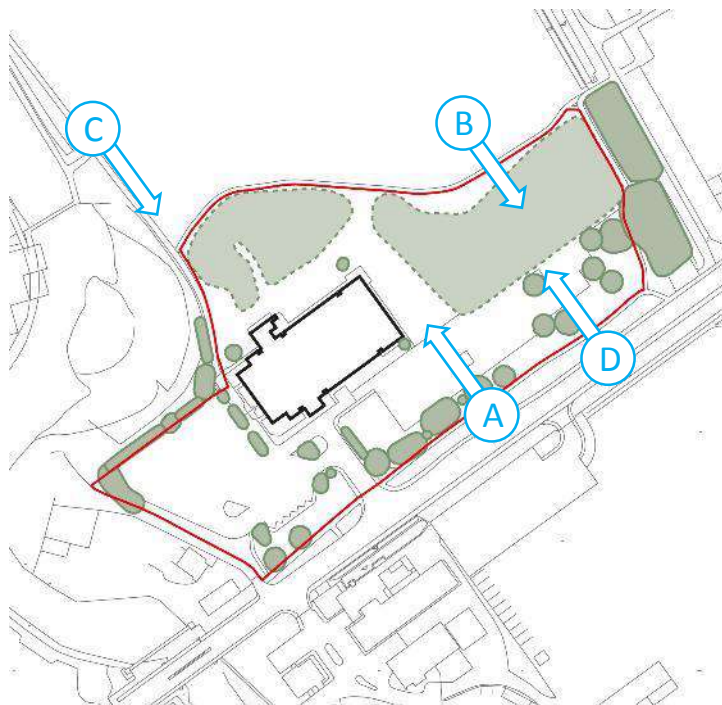


Existing visual connections

LVPRA has worked closely with Waltham Forest Council on plans to improve access routes into the marshes and open up views from Lea Bridge Road into this wonderful green space.



Existing visual connections



Landscape Strategy - Existing condition

Existing ice centre and the
Thames Water site currently
form a barrier between Lea
Bridge Road and the marshes



Landscape Strategy - Proposed condition

The proposed landscape scheme aims to reconnect Leyton Marsh with Lea Bridge Road.



Landscape Strategy - Aspirational condition

Future development of the Thames Water site could reconnect the marsh to the North and South of Lea Bridge Road.



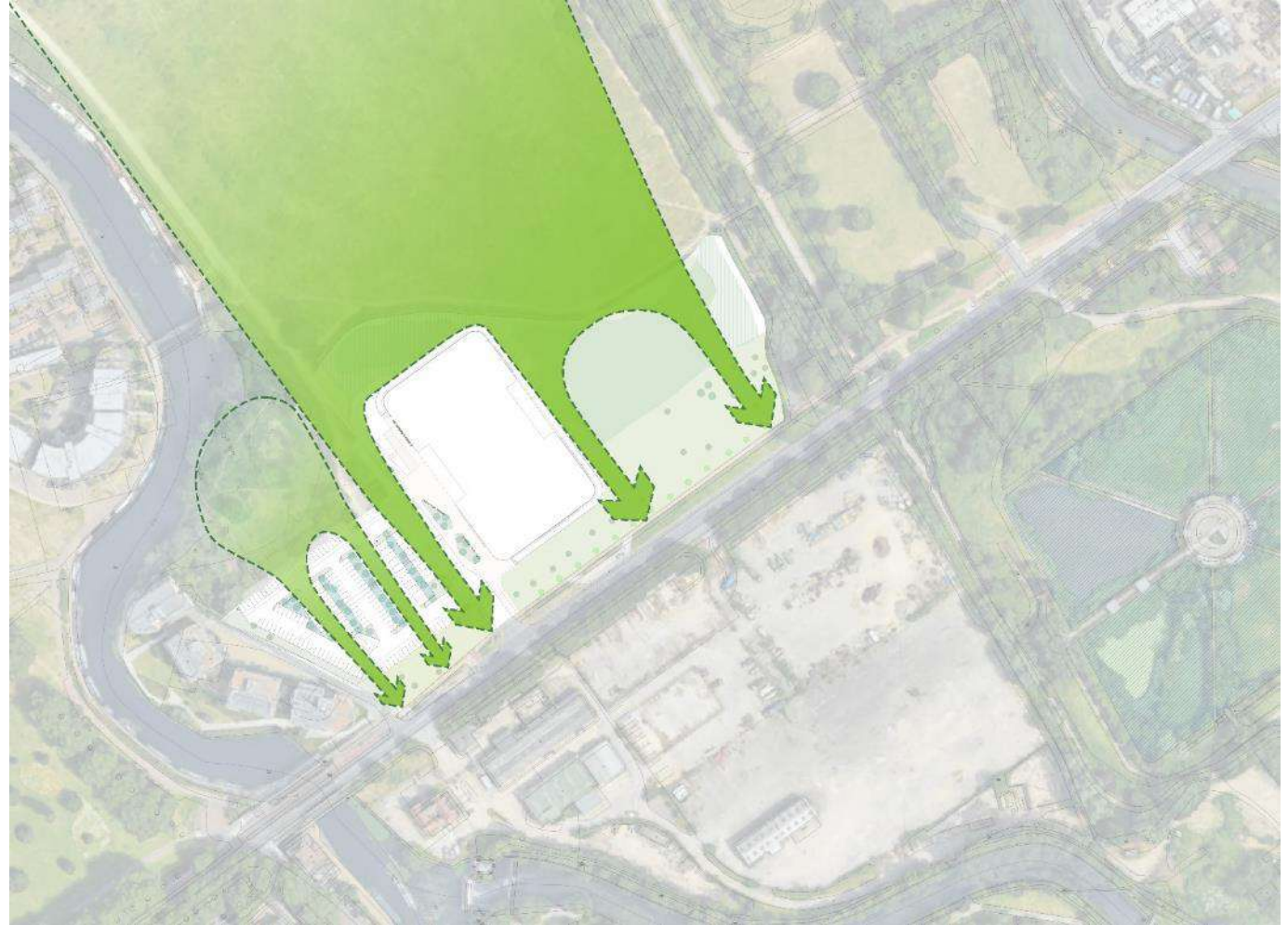
Bringing the marshes to the front



- Removal of existing concrete grasscrete and poor quality compacted lawn.
- Breaking existing carpark by introducing swales.



- Creating native meadows with local species present in Leyton Marshes.
- Introducing native nectar-rich trees and shrubs.
- Creating new wetland habitats with native plants and reed beds.



Existing Habitat Survey



Proposed ecological enhancement

Existing and Extended





-  Site Boundary
-  Amenity grassland
-  Broadleaved semi-natural woodland
-  Dense scrub
-  Tall ruderal
-  Bare ground
-  Building
-  Running water (River Lea)
-  Hardstanding
-  Scattered trees
-  Line of trees

Proposed

-  Species rich native meadow
-  Native swale planting
-  Native wetland planting with reed beds
-  Native shrub planting
-  Reinforced grass
-  Proposed native tree species
-  Trees to be removed

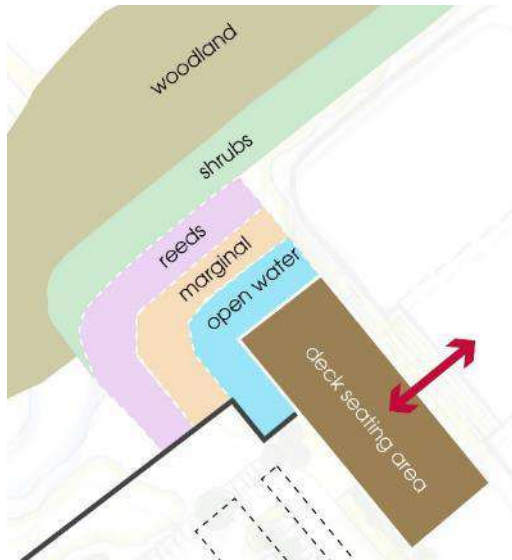


Water stories

-  1st grey water cycle
-  Water movement as part of 2nd cycle
-  Oxbow lake water circulation
-  Underground connections between carpark swales



Native wetland planting



BOGGY AND MARGINAL PLANTING



Eleocharis palustris, Common spikesedge



Lythrum, Purple loosestrife



Iris pseudacorus, Yellow Flag Iris



Lycopus europaeus, Gypsywort



Lysimachia nummularia, Creeping-jenny



Filipendula ulmaria, Meadowsweet



Lychnis flos-cuculi, Ragged Robin



Geum rivale, Water avens



Mentha aquatica, Water mint



Phalaris arundinacea, Reed Canary grass

EMRGENT AND SUBMERGETNT PLANTING



Myosotis scorpioides, Water Forget Me Not



Amphibious bistort



Aisms, Common Water Plantain



Glyceria fluitans, Floating sweet grass



Ranunculus lingua, Greater spearwort



Syngonium podophyllum, Arrowhead



Typha angustifolia L., Lesser Indian Reed Mace



Berula erecta, Lesser Water-parsnip



Callitriche stagnalis, Starwort



Nuphar lutea, Brandy bottle lily



*Illustrative view of landscape at entrance to proposed new Lee Valley Ice Centre and Leyton Marsh
(Artist's impression. Credit: FaulknerBrowns Architects / LDA Design)*

Lee Valley Ice Centre Masterplan



*Proposed new Lee Valley Ice Centre masterplan
(Artist's impression. Credit: FaulknerBrowns Architects / LDA Design)*

Additional habitat

- Bird boxes
- Hedgehog houses
- Bat boxes
- Insect hotels



**Sustainable
quality design**



Principles of Development

The new ice centre will be designed with biodiversity and sustainability at its heart.



Green spaces: The exterior of the venue would be architecturally designed to respond to the natural environment of Leyton Marsh. The landscape around the ice centre would be greatly enhanced, transforming areas devoid of ecological value, with significant native planting. This would not only increase the wildlife in the area but would also be a vast aesthetic improvement.



Lifecycle: The design team are investigating innovative construction methods to ensure energy use is minimised throughout the whole lifecycle of the building. The new ice centre would achieve a BREEAM rating of Very Good.



Water: Melted ice would be recycled to water the green spaces surrounding the site, and the landscape would be designed to minimise flood risk.



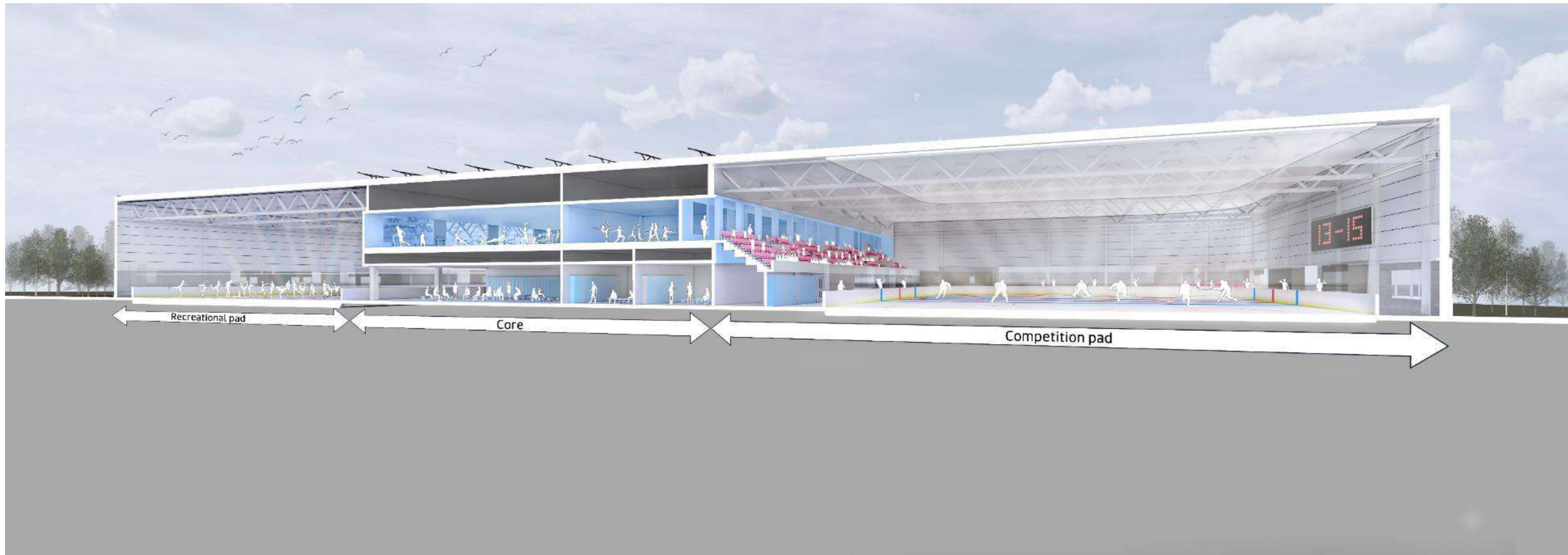
Energy: Energy efficiency would be maximised through excellent insulation and highly efficient air source heat pumps. Onsite electricity generation provided by roof mounted photovoltaic panels is also being investigated.



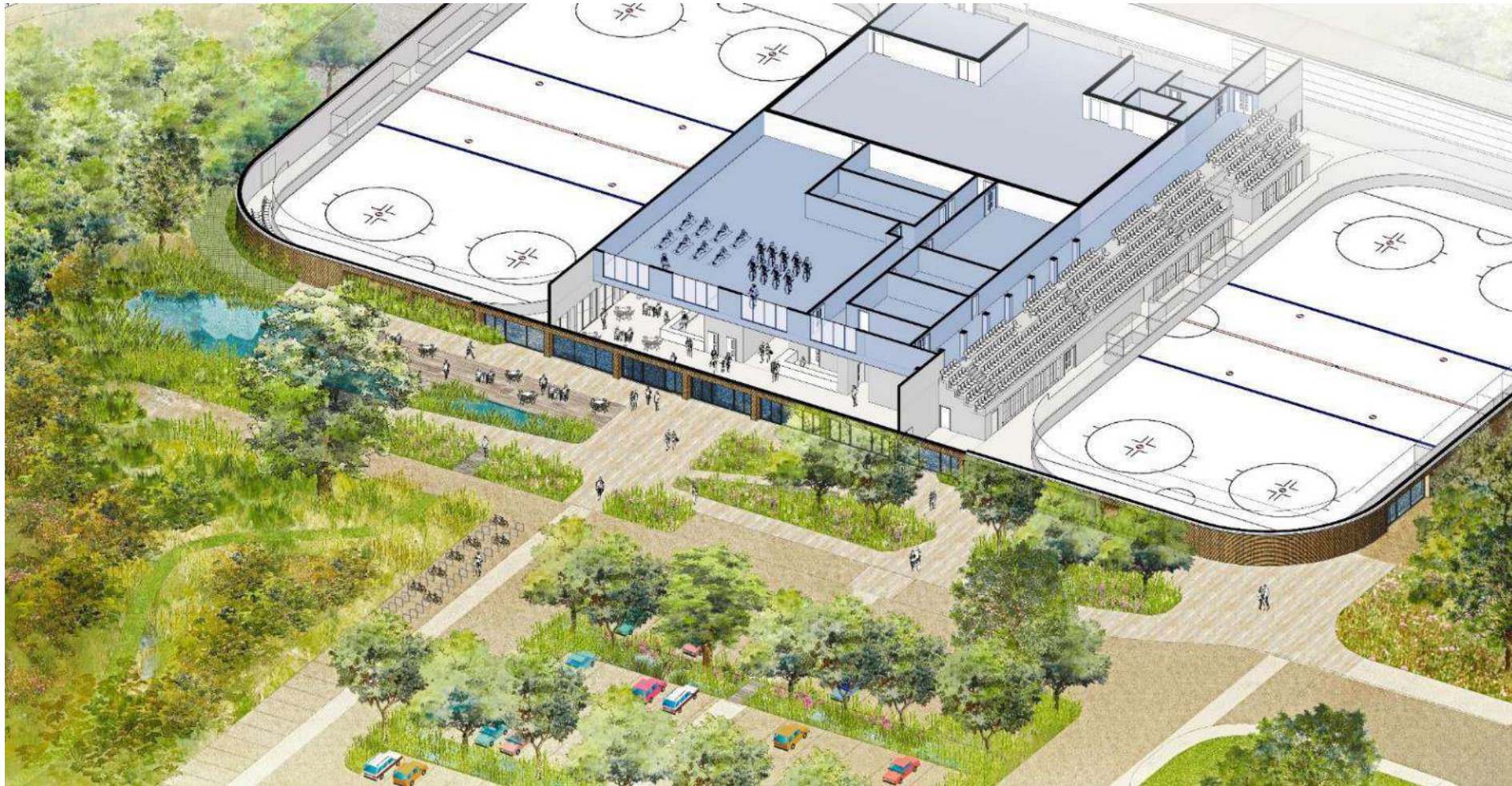
Community and physical activity: The new ice centre would provide 'twice the ice' for physical activity and would be more than just an ice rink; a café and community spaces would be accessible to everyone and become a setting off point for walkers, runners and cyclists.



*View of proposed new twin rink Lee Valley Ice Centre from Lea Bridge Road
(Artist's impression. Credit: FaulknerBrowns Architects / LDA Design)*



*Illustrative section through twin Olympic ice rinks and gym at proposed new Lee Valley Ice Centre
(Artist's impression. Credit: FaulknerBrowns Architects)*



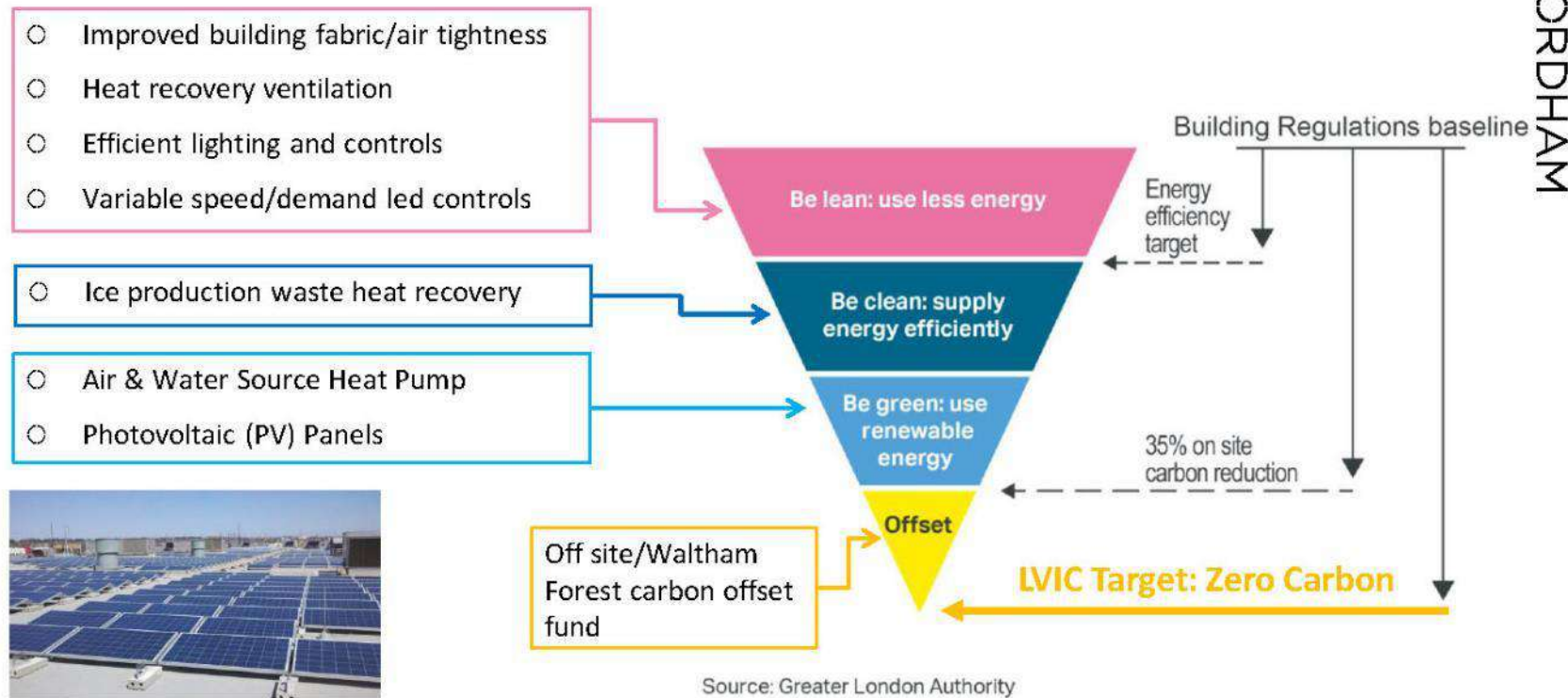
*Cutaway view of proposed new Lee Valley Ice Centre
(Artist's impression. Credit: FaulknerBrowns Architects / LDA Design)*

Access and movement

Sustrans Number 1 Cycle Route
Capital Ring Walking Route
Greenway Designated Route
Proposed Gateway

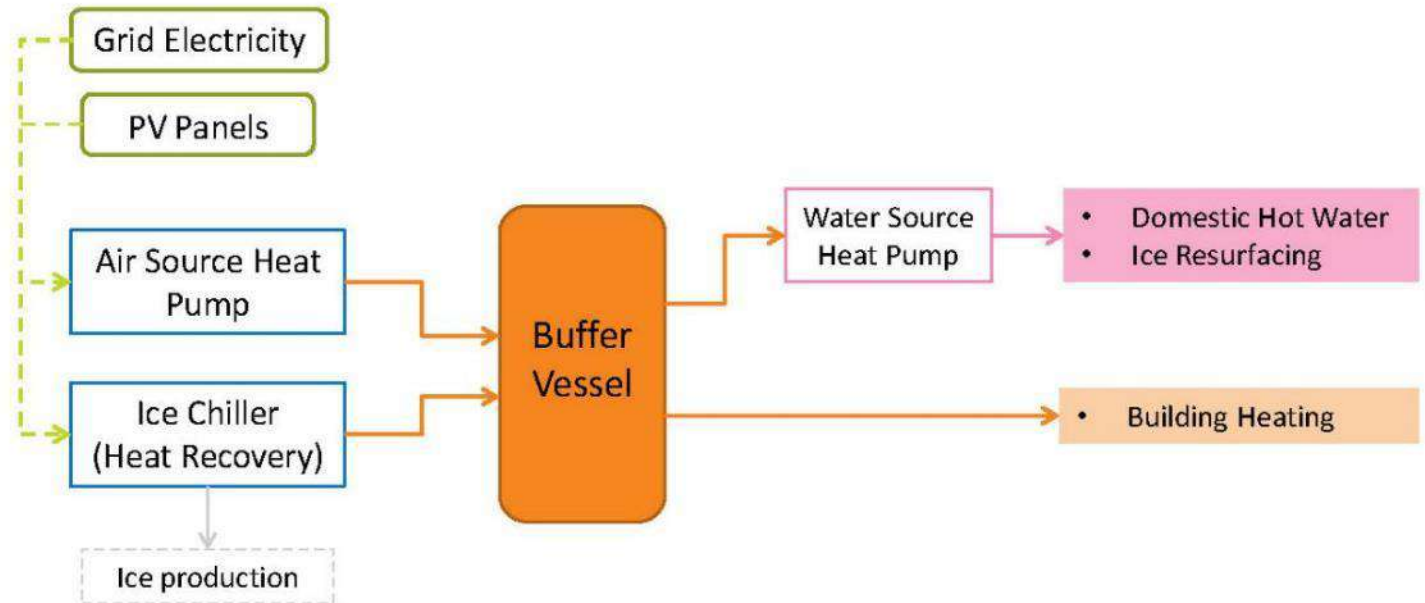


Lee Valley Ice Centre Energy Strategy



Lee Valley Ice Centre Energy Strategy

LVIC ENERGY STRATEGY PLANT STRATEGY – ELECTRIC LED SCHEME





Community engagement

Community engagement

**A public consultation will run from
Wednesday 26th June to Sunday 1st September**

- The latest designs for the new ice centre are informed by feedback from the local community and skaters gathered during face to face and online engagement activity in 2017.
- Members of the public can visit the consultation website, www.icecentreredevelopment.com, to find out more about the plans and have their say on the designs.
- As well as an exhibition at the ice centre, a number of face-to-face engagement events will also be taking place across the summer in Waltham Forest and Hackney, with an additional event being planned in Hackney,

Event	Date	Location
Access to Sport's Millfields Fun Day	Saturday 20 July, 12.00 – 16:30	Millfields Park, Lea Bridge Road, Clapton E5 0AR
Waltham Forest Mela	Sunday 4 August, 14:00 – 21:00	Leyton Jubilee Park, Seymour Road, London E10 7BL
Chingfest	Saturday 31 August, 13:00–21:00	Ridgeway Park, Old Church Road, London E4 6RS
Lee Valley Ice Centre drop-in exhibition	Monday 15 July – Sunday 1 September	Lee Valley Ice Centre, Lea Bridge Road, Leyton E10 7QL

Programme summary

- Stage 3 Design Complete - End July 2019
- Public Consultation - June - End August 2019
- LVRPA Board Meeting - 19 September 2019
- Planning Application Submission - 23 September 2019
- Target Planning Approval - March 2020
- Contractor Procurement – Q3 2020
- Start on Site – Q1 2021
- Complete – Q1 2023



*View of proposed new twin rink Lee Valley Ice Centre from Lea Bridge Road
(Artist's impression. Credit: FaulknerBrowns Architects / LDA Design)*