

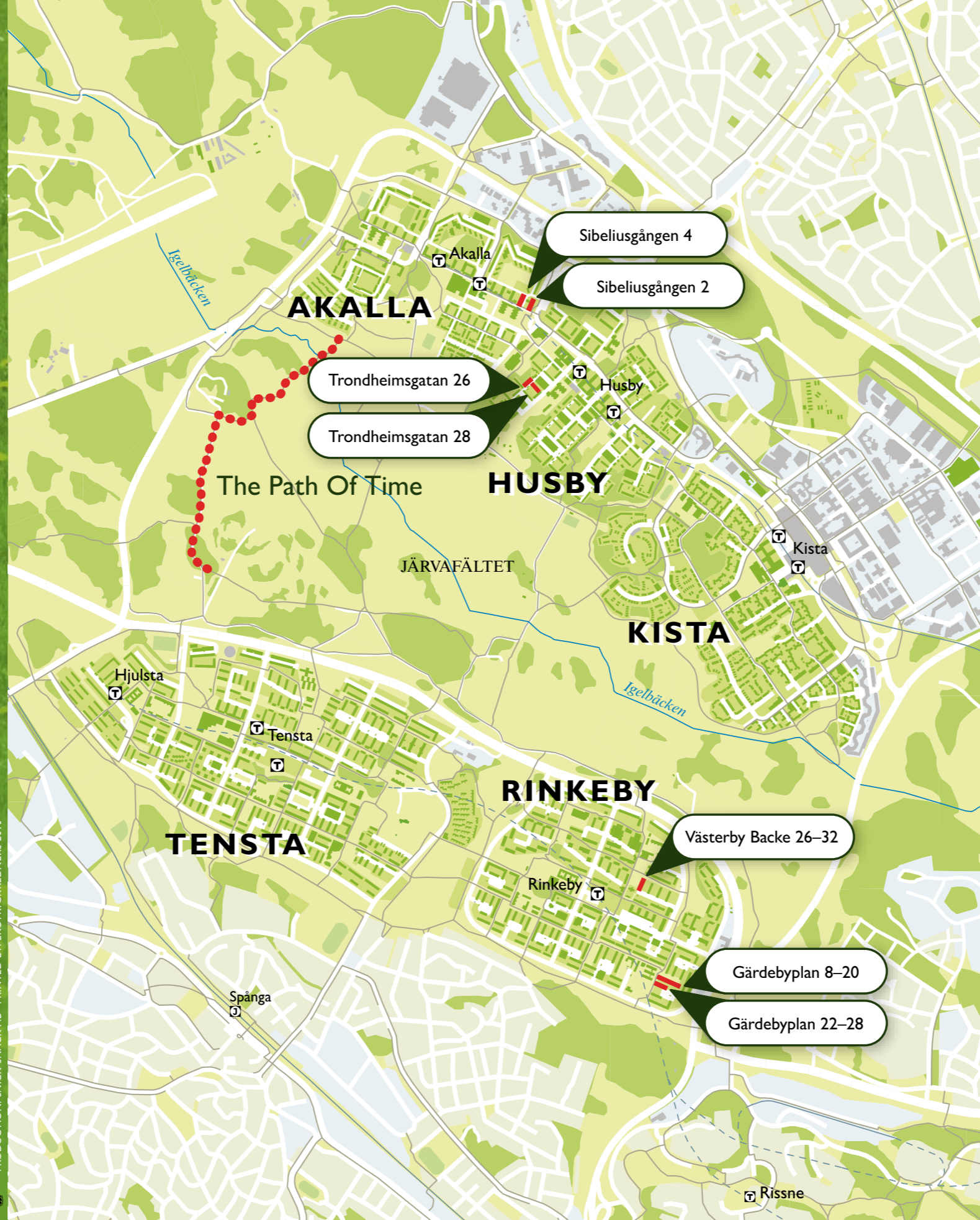
## Ten steps towards a Sustainable Järva

- Energy-efficiency renovations
- 50% reduction in energy consumption
- Energy from renewable sources
- Sustainable transport solutions
- Measures to promote the use of bicycles
- Informing and involving residents
- Environmental education
- Cultural-historical walk
- Monitoring and evaluation
- Contribution to national and international environmental and climate targets

In 2009 the Delegation for Sustainable Cities granted investment support to the City of Stockholm for its Sustainable Järva project, to the City of Umeå for its Sustainable Ålidhem project, and to the City of Malmö for its project on Sustainable Urban Development in the Västra hamnen area.

Find out more  
[www.stockholm.se/hallbarajarva](http://www.stockholm.se/hallbarajarva) (in Swedish)  
[www.stockholm.se/jarvalyftet](http://www.stockholm.se/jarvalyftet) (in Swedish)  
[www.hallbarastader.gov.se](http://www.hallbarastader.gov.se)

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# Sustainable Järva



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# Sustainable Järva

Sustainable Järva is an investment in ecologically, socially and economically sustainable development in the districts surrounding Järvafältet. With new technology, information and education, Järva will become a model of sustainability, promoting environmental responsibility and energy efficiency while still preserving the area's unique cultural and historical values.

The goal is to make Järva a national and international model for the sustainable rehabilitation of areas that formed part of Sweden's Million Homes Programme.

## Järva – part of the Million Homes Programme

One third of the homes in Sweden were built as part of the Million Homes Programme in the 1960s and '70s. More than 200 million Europeans live in similar properties. Many of these buildings are shabby and in need of renovation, and their energy consumption needs to be at least halved to meet today's demands.

## Environmental Programme

The five-year Sustainable Järva project is part of the work of rehabilitating Järva's "Million Homes" legacy. Stockholm's municipal property company, Svenska Bostäder, will conduct a dialogue with residents in seven apartment blocks to improve energy efficiency in 350 homes. The project also includes a broad commitment to invest in sustainable transport, promote cycling, and inform and educate local residents on climate and environmental issues.



## Renovation halves energy consumption

Halved energy consumption, energy from renewable sources and a good indoor climate are some of the project's targets. In the seven apartment blocks, measures will be taken to more than halve annual energy consumption from 180 to 88 kWh/m<sup>2</sup>. The national requirements for new properties are 110 kWh/m<sup>2</sup>. Hot water consumption will also be reduced.

## Different methods to be tested

Energy efficiency will be improved in three of the most common types of building by either traditional on-site renovations or by fitting prefabricated facade elements. The two techniques will then be evaluated from an environmental, economic and aesthetic perspective to ascertain the best solution for future renovations.



3-storey block in Rinkeby, balcony-access block in Husby, and high-rise slab block in Akalla.

## From pilot phase to full-scale roll-out

As Svenska Bostäder's entire housing stock must be renovated by 2022, the most energy-efficient concepts will be adopted directly. In addition to the 5,600 apartments Svenska Bostäder has to renovate in Järva, there is a potential market of millions more throughout Europe.

## Renewable Energy

Solar cells and panels can be integrated into balcony railings, facades and roofs, while a wind turbine in Järva will supply renewable energy for local needs. One basic requirement for a climate-smart energy supply in the area is, however, the sustainable development of the district heating network planned by Fortum.



## Sustainable transport and cycling promotion measures

Stockholm's politicians, public officials and citizens have together evaluated local cycle routes as part of an analysis that will form the basis for a new cycle plan for Järva. There are plans for several upgraded and/or new cycle paths with LED lighting to improve links between the northern and southern parts of Järva. Examples of the city's commitment to facilitate and promote the use of cycles include a "loan-a-bike" facility in Akalla and an annual cycle week with cycling schools for adults, a cycling licence for children and cycle repair courses. A car pool will be established in Järva to further underline the commitment to sustainable transport.



## Inform and involve

Technical solutions alone are not sufficient to promote a sustainable lifestyle. At least as important in this respect are a broad-based information campaign and a constructive dialogue with residents that gives them an opportunity to comment on and participate in decisions about the renovation.



The Järva Dialogue in Akalla, Husby, Rinkeby and Tensta has attracted more than 15,000 visitors.

## Education

Property managers, service personnel and environmental ambassadors in the seven renovated properties are trained to spread knowledge about sustainable lifestyles. Residents are informed about how to save energy, how to sort waste at source and how to discard hazardous waste. All teachers in Järva's schools and preschools are invited to attend environmental training courses, and local clubs and societies are offered training in environmental and climate-related issues.



The Path of Time is a signposted walk of cultural history.

## Cultural activities

Stockholm City Museum seeks to raise awareness of and pride in living in Järva through initiatives that include an apartment furnished in typical 1970s style and *Tidens Väg* ("The Path of Time"), a new, signposted walk around Järvafältet with information about the area past and present.

## Monitoring and evaluation

Sweden's Royal Institute of Technology is monitoring the entire project to evaluate it from a technical and behavioural science perspective. A manual that presents the results of the various construction methods and explains how different aspects of the project have been carried out will enable others to make practical use of the results.



Bicycles for loan in Akalla.



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