

# Climate risk assessment

## The Garage, MediaCity

### How do we assess climate risk?

Climate risk assessments help us to:

- identify climate-related risks associated with our assets; and
- develop Asset Management Plans to ensure we adapt to the changes in climate we are likely to experience up to 2060

The assessment focussed on two climate scenarios: one equivalent to a 1.5°C increase in global temperature and the other equivalent to a 2°C increase in global temperature. As part of the study, we considered elements such as asset age, construction method and materials, as well as operational purpose, to develop a bespoke assessment of risks and adaptation actions suitable for these buildings. Risk levels range from 'Negligible' to 'Very High' and consider our climate in 2030, 2050 and 2060. For this document, we concentrate on the worse of the two scenarios, the 2°C increase in global temperature, and refer to risk ratings for each of the three timeframes.

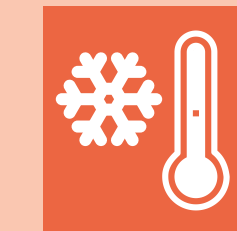


### Climate Indicators

Across the eight climate indicators below, we identified 38 potential risks associated with the Garage.



**Mean Winter precipitation** – heavy rainfall seeping into a building can cause corrosion of the internal structure



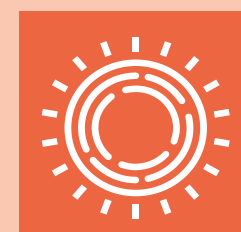
**Mean Winter min. temperature** – cold temperatures freezing and damaging building pipes



**Change in precipitation on the wettest day** – increased rainfall can cause flooding of a building



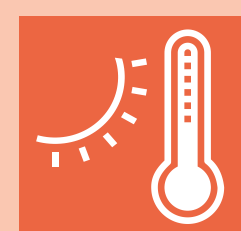
**Wind (extreme Winter)** – extreme wind can cause damage to cladding



**Mean Summer temperature** – high temperatures can lead to the warping of a roof, leading to cracked shingles that can leak



**Snow** – an accumulation of snow can become heavy causing building damage such as cracks in plaster or drywall



**Mean Summer max. temperature** – extreme heat can increase the risk of prolonged heat waves and discomfort to occupiers

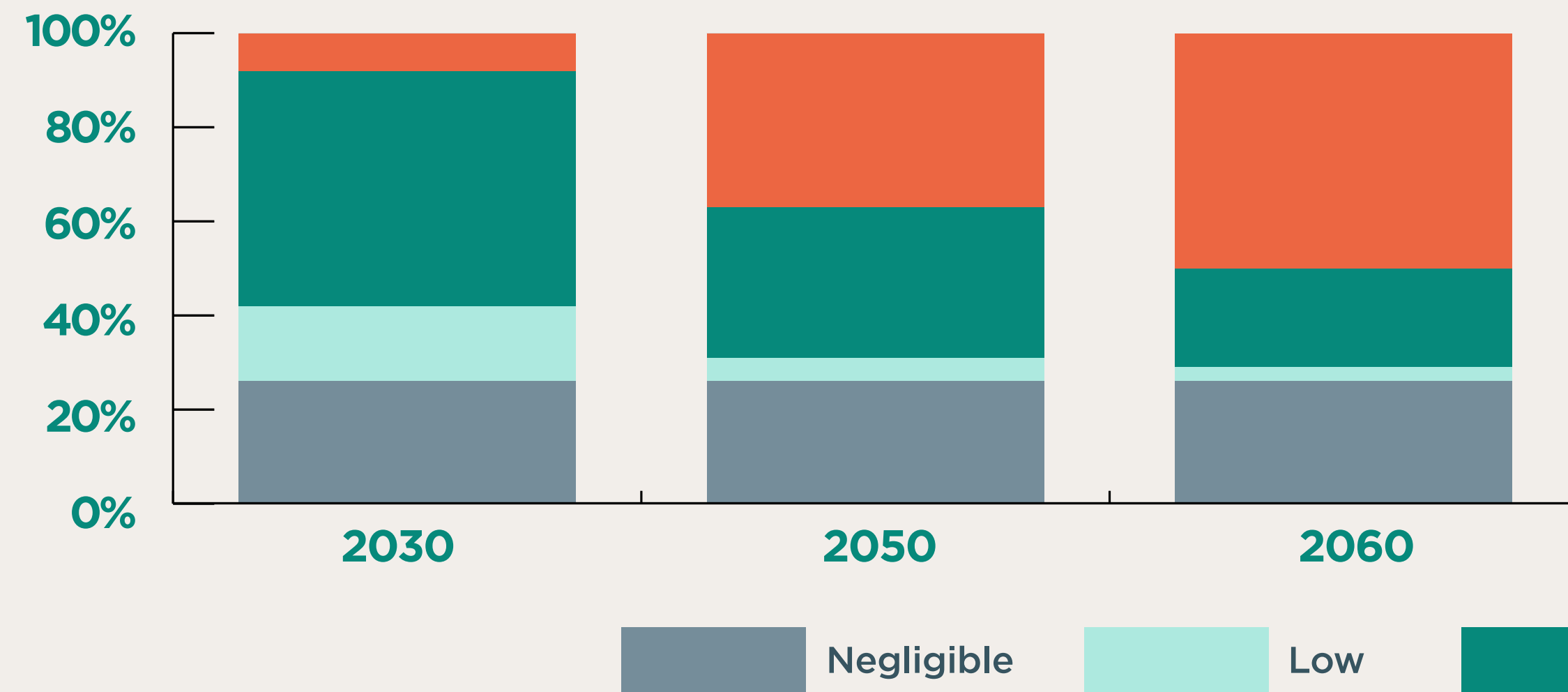


**Sea level rise** – sea level rise increases the risk of flooding causing a failure to the transformers resulting in power outages

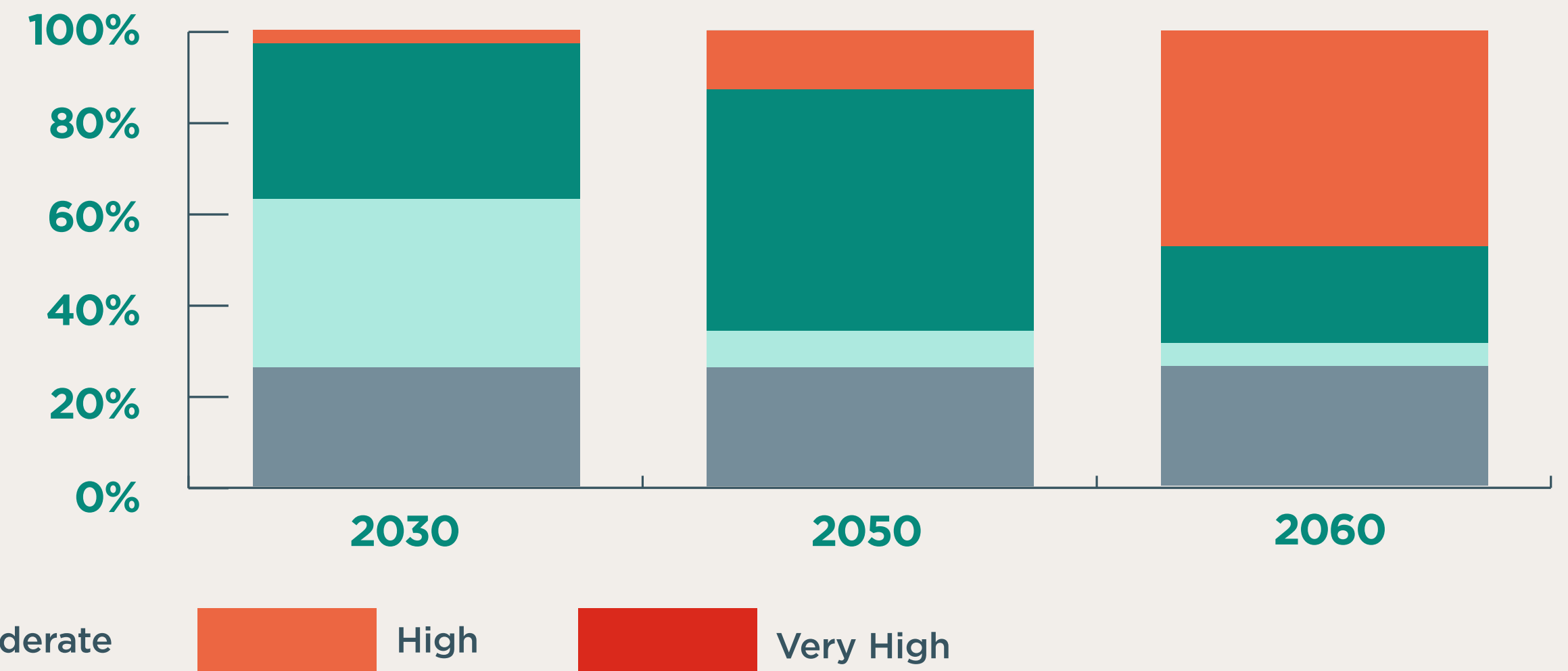
# Asset Climate Resilience

The graphs below summarise the current climate resilience of the Garage (left graph), compared with its future climate resilience (right graph) if the adaptation measures we've identified are undertaken. The right graph shows a significant decrease in the number of 'High' risks following the implementation of the adaptation measures.

## Current climate resilience without adaptation measures



## Future climate resilience with adaptation measures



## Action Plan

Information from the assessment, including risks and adaptation measures, will be integrated into an Asset Management Plan for the Garage.

This will:

- Outline the actions we are taking to reduce risk levels;

- Assist our asset managers and other stakeholders in making informed decisions related to the Garage and its climate resilience; and
- Contribute to making the investment portfolio more climate resilient over time.